Details of Grid Events during the Month of October 2023 in Northern Region



										GRID-INDIA			
SI 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 Genera Regional		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 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	Jammu & kashmir	03-Oct-2023 11:39	03-Oct-2023 14:20	02:41	0	90	0.000	0.146	54859	61505	220/1328/U Ubhampur (k) has double main bus scheme at 220k/ level. During antecedent condition, active power flow in 220 k/ Kishenpur PG-) Udhampur PDD (PG) Ckt-1 & 2 and 220 k/ Saran PS-) Udhampur PDD (PDD) Ckt were 93MW, 93MW and 97MW respectively. 13 Are sported, at 1739 his, 220 k/ Kishenpur PG-) Udhampur PDD (PG Ckt-1 viego on 1*4 pibase to phase fault with fault current of ly-lb6.886kA and fault distance of 130 Action from Kishenpur PG-) under purple (PG Ckt-2 also tripped on Y-8 phase to phase fault with fault current of ly-lb4.159kA and fault distance of 130 Loring the same time, 220 k/ Kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault with fault current of ly-lb4.159kA and fault distance of 122.239km from Kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault with fault current of ly-lb4.159kA and fault distance of 122.039km from Kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD (PG Ckt-2 also tripped on Y-8 phase to phase fault distance of 120 km kishenpur PG -Udhampur PDD -Udhampur -Udhamp	1) 220 KV Kishenpur(PG)-Udhampur(PDD) (PG) Ck-1 2) 220 KV Kishenpur(PG)-Udhampur(PDD) (PG) Ck-2 3) 220 KV Sarna(PS)-Udhampur(PDD) (PDD) Ckt
2	GI-2	Himachal Pradesh	04-Oct-2023 19:30	05-Oct-2023 18:25	22:55	165	0	0.324	0.000	50874	62750	() As reported, at 19:30 hrs, terminator of joint conductor of Red phase GT of Unit No. 1 LA got snapped due to flash on string of disc insulators. (i) During the same time, 400/220 V 315 MVAICT 1 at Dehar(88) irroped at this time. (Escart reason to the shared) (iii) As per RFUX at Dehar(88), a phase to phase fault is observed with flash clearing time of 80ms. (iv) As per RFUX at Dehar(88), a phase to phase 150 bits observed at Dehar(88M).	1) 400/220 kV 315 MVA KCT 1 at Dehar(88) 2) 165MW Unit-1 at Dehar(88)
3	GD-1	Haryana	05-Oct-2023 09:28	05-Oct-2023 10:00	00:32	0	300	0.000	0.520	53017	57708	i) During antecedent condition, 220kV Hissar_[M[Har]-Masudpur Ckt 1 & 2 and 220/132kV 100MVA KT-1 at Hissar_[M[Har] were already in open condition. ii) As reported, at 99528hs, sparking was observed on the 8-phase of 220 kV Bus loalator of 220kV Hissar_[M[Har] Bus differential protection operated at 20kV Hissar_[M[Har] Bus differential protection operated	13 220KV Histar, Julylan/Narwana dit 23 220KV Histar (Balylan/Narwana dit 33 220KV Histar (Balyland), Let 2 43 220KV Histar (Balyland), Let 2 42 220KV Histar (Julyland), Let 3 53 220KV Histar (Julyland), Let 1 53 220KV Histar (Julyland), Let 1 73 220KV Histar (Julyland), Let 1 27 220KV Histar (Julyland), Let 1 28 Histar (Jul
4	GD-1	Punjab	07-Oct-2023 08:37	07-Oct-2023 10:10	01:33	0	280	0.000	0.501	51438	55849	I) During antecedent condition, 220 kV Ludhianai(PG)-Lation Kalan(PG) (FSTCL) Ckt 2, 220 kV Humbran-Lation Kalan(PG) Ckt and 220 kV Ohandhari Kalan-Lation Kalan(PG) Ckt were connected to 220kW Bus-1 at Litan Kalan(PG) and 220 kV Terosaya (Rose Lation Kalan(PG) Ckt were connected to 220kW Bus-1 at Litan Kalan(PG) Ckt were connected to 220kW Bus-1 at Litan Kalan(PG) Ckt were connected to 220kW Bus-1 at Litan Kalan(PG) Ckt was Kalan(PG) Ckt were connected to 220kW Bus-1 at Litan Kalan(PG) Ckt Was Albert Markey In off Condition due to overfoad. ii) As reported, at 08:37kxs, ranped conductor of 11xf Midland feeder connes in contact with 220kV Ferozepur Road R-Phase CVT causing damaging of bus post insulator and retrieval of 220kW Bus-1 at Litan Kalan(PG) Ckt 2 at all Lation Kalan(PG) Ckt and 220k V Bus-1 and Lation Kalan(PG) Ckt from Lation Kalan(PG) Ckt from Lation Kalan(PG) Ckt and 220k V Bus-1 and Kalan(PG) Ckt from Lation Kalan(PG) Gkt from Lation Kalan(PG) end. v) As per RMU at Ludana) PG, Is Phase to earth flast with delayed clearnore of 350ness is observed. v) As per RMU at Ludana) PG, Is Phase to earth flast with delayed clearnore of 350ness is observed. v) As per SADA(A, change in demand of approx. 155MW is observed in Punjab control area. But as reported by SLDC Punjab, change in demand of approx. 280MW is observed in Punjab control area.	1) 220 kV Ludhanal/PG-Laiton Kalan/PS) (PSTCL) Cit 1 2) 200 kV Perceepur Roud-Laiton Kalan/PS) (EX 3) 200 kV Ludhanal/PS-Laiton Kalan/PS) (STCL) Cit 2 4) 220 kV V Manacha-Laiton Kalan/PS) Cit 5) 220 kV V Dhandhari Kalan-Laiton Kalan/PS) Cit 5) 220 kV Dhandhari Kalan-Laiton Kalan/PS) Cit
5	GI-2	Uttar Pradesh	09-Oct-2023 20:16	09-Oct-2023 21:50	01:34	0	0	0.000	0.000	51481	60698	I) As reported, at 20:16hrs, 400kV B-Ph CT of main bay 410 of 400/132 kV 200 MVA KCT 3 at Nehtaur(UP) busted and caught fire and 400/132 kV 200 MVA KCT 3 at Nehtaur(UP) tripped on differential protection operation with 8-phase fault current of 4.40k. 1) At the same time, 400/132 kV 200 MVA KCT 2 at Nehtaur(UP) bus tripped on differential protection operation with 8-phase fault current of 7.11kA, [Exact reason yet to be shared] 1) Date 10 Furnt, the oil of CT got spread out on the cable trench and certain cables also got burnt and badly damaged. 50 in view of safety, 400/132 kV 200 MVA KCT 1 at Nehtaur(IP) was manually tripped at 20 soft but due for fire state on main cable trench. 1) After fryping of all three 400/132 kV 120 MVA KCT 1 at 10 soft soft supply. 1) After fire quenching of CT & cables, FLT van commalised and carged successfully at 2:50 hrs on 09/10/2023. 1) After fire quenching of CT & cables, FLT van commalised and carged successfully at 2:50 hrs on 09/10/2023. 1) As per PAID at Rootkee(FIG, B-Y phase to earth fault with delayed fault clearance time of 60ms are constructed to the command of the	13 400/13 LW 200 MVA KT 3 at NehtaurfUP) 23 400/13 LW 200 MVA KT 3 at NehtaurfUP) 23 400/13 LW 200 MVA KT 2 at NehtaurfUP) 43 132W Nehtaur Bijlorc Ct 43 132W Nehtaur Bijlorc Ct 53 132W Nehtaur Chandpur Ct 63 132W Nehtaur Korna Ct 73 132W Nehtaur Morna Ct 73 132W Nehtaur Morna Ct 73 132W Nehtaur Magina Ct 20 132W Nehtaur Magina Ct 10 132W Nehtaur Magina Ct 10 132W Nehtaur Magina Ct 10 132W Nehtaur Magina Ct
6	GI-1	Himachal Pradesh	10-Oct-2023 18:46	10-Oct-2023 23:11	04:25	120	0	0.234	0.000	51254	60340	During antecedent condition, 66NW unit-1, 2.3, 5.8, 6 were running and generating approx. 307 MW in total. Unit-1, 3.8, 5, 20/56NV 46NW. Transformer and 220kV feeders to besize. Inlandhur cit-1 and Dasuya cit-1 were connected at 226V Bus 2 and Unit-2 & 6.8 206V feeders to besize. Inlandhur cit-2 and Dasuya cit-1 were connected at 226V Bus 2.8 and Unit-2 & 6.8 206V feeders to besize. Inlandhur cit-2 and Dasuya cit-1 were connected at 226V Bus 2.8 and Unit-2 & 6.8 206V feeders to besize. Juliandhur cit-2 and Dasuya cit-1 were connected at 226V Bus 2.8 and Connected Section of the Section of Section of the Section of the Section of the Section of Se	1) 220KV Bus 2 at Pong(BB) 2) 220 KV Pong(BB)-Dassya(P) (BBMB) Ckt-2 3) 220 KV Jaham'DirQ-Pong (BB) Ckt-2 4) 220 KV Jasan-VirQ-Pong (BB) Ckt-2 4) 220 KV Jason-VirQ-Pong(BB) (PG) Ckt 3) 66 MM Pong WS- Ulmt 2 0) 66 MM Pong WS- Ulmt 2 0) 66 MM Pong WS- Ulmt 2 0) 66 MM Pong WS- Ulmt 2 7) 220(66W AWAN-KCT-1 at Pong(BB)
7	GI-2	Rajasthan	10-Oct-2023 10:21	10-Oct-2023 11:32	01:11	110	70	0.251	0.116	43865	60246	1,900/2100 Acal(RD) has one and half breaker scheme at 4000V level and double main trender has scheme at 2,200V level 1) list A experted, at 1,101-1101x, 2017 Available/joinsidene(RS) CRI treppod on basics to entit half (1/4 feature see Prent) at 8 thinda(FG)), 10) At the same time, 400/220 W 500 MVX.KT 1 8,2 at Akal(RS) also bripped, (fixed reason yet to be shared, but it is suspected that there is delay in CB opening due to which KTs also got tripped. Also OC/ protection settings of ICTs reed to be shared, 1) As per SCADA 500; 2200V Akal(RS)-Barme(RS) CRI also tripped during the same time, (fixed reason yet to be shared) 1) As per SCADA 500; 2200V Akal(RS)-Barme(RS) CRI also tripped during the same time, (fixed reason yet to be shared) 1) As per SCADA, Change in demand of approx. 70MW is observed in Ralistation control area. 1) As per SCADA, Change in Rajastian with generation of approx. 10MW is observed. 10MW observed.	1) 220 KV Abal(KS) disalmer(KS) Ckt 2) 400/220 kV 500 MVA KCT 1 at Abal(KS) 3) 400/220 kV 500 MVA KCT 2 at Abal(KS)
8	GD-1	Uttarakhand	12-Oct-2023 15:36	12-Oct-2023 16:28	00:52	90	0	0.175	0.000	51528	61412	I) 755/400W Kotehwar(FC) has one and half breaker scheme at 765W level and double main bus scheme at 400W level. During antecedent condition, only 100MW Unit-1 at Kotehwar HFP was in running condition and was generating approx. 90MW and active power loading on 765W Kotehwar(FC)-Meent(IFC) Cit-1 & 2 was approx. 45MW each. II) as experted, at 1753Mr. 7Protection operated in FC' Signal came at Meent(IFC) on which tripped group relays and sent DT to Kotehwar(FC)-TostW Kotehwar(FC)-Meent(IFC) Cit-1 & 2 tripped due to DT received at Kotehwar(FC)-Fig. III) During the same time, 100MW Unit-1 at Kotehwar(FC)-Fig. III) and the remaining the late of the control of the	1) 7654V Koteshwar(PG)-Meerut(PG) Clt.1 2) 7654V Koteshwar(PG)-Meerut(PG) Clt.2 3) 6054V Koteshwar(PG)-Heerit(P) (Clt.2 4) 6054V Koteshwar(PG)-Heerit(P) (PG) Clt.2 4) 4054V Koteshwar(PG)-Heerit(P) (PG) Clt.2 3) 4054V Koteshwar(PG)-Heerit(P) (PG) Clt.2 6) 4054V Koteshwar(PG)-Heerit(P) (PG) Clt.2 7) 100 MW Unit-1 at Koteshwar(Th) (PG) Clt.2 7) 100 MW Unit-1 at Koteshwar(Th)

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SI No.		ory of Grid Event	Affected Area	Time and Date of	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 Generat Regional		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
		1 lor GI 2/ 1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
9	(GD-1	Jammu and Kashmir	14-Oct-2023 04:23	14-Oct-2023 06:32	02:09	72	0	0.180	0.000	39982	52071	(i) During antecedent condition, 60 MW Unit-2.8.3 at Uri-2(NH) were running and generating approx. 36MW each and total MW generation of 72MW was evacuating through 400 XV Uri, 2(NH)-Uri, 1(NH) (Fig. Ctc and 400 XV Uri, 2(NH)-Wagopar(P) (Fig. Ctc.) July Are profited, a 1042-2478, 400 XV Uri, 2(NH)-Wagopar(P) (Fig. Ctc tripped on 8-N phase to ground fault with fault current of approx. 1.89KA and fault distance of 11.87km from Wagopar(P) (Fig. Ctc) and tripped on 8-N phase to ground fault at the same time with delayed fault clearance time of approx. 590ms and fault current of approx. 2.51Ak from Uri 2(NH)-Uri, 1(NH)-(Fig. Ctc) also tripped on 8-N phase to ground fault at the same time with delayed fault clearance time of approx. 690ms and fault current of approx. 2.51Ak from Uri 2(NH)-(H)-(H)-(H)-(H)-(H)-(H)-(H)-(H)-(H)-(13 400 KV Uri. <u>2</u> (NH)-Uri. <u>1</u> (NH) (PG) Ckt 23 400 KV Uri. <u>2</u> (NH)-Wagoona(PG) (PG) Ckt 33 60 MW Urii: 2 at Uri-2(NH) 4) 60 MW Urii: 2 at Uri-2(NH)
10		GI-2	Rajasthan	16-Oct-2023 02:26	16-Oct-2023 06:42	04:16	0	0	0.000	0.000	39913	49814	(i) 765/400/2200V Bhaddsi(PC) has one and half breaker scheme at 765 & 400HV side and double main bus scheme at 220HV side. 220HV level at BhaddsiPG) 5/s is hybrid (Partly Aff-partly GS) in nature. (ii) As reported, at 02.26 km, bus law Protection Operated at Bhaddsi (PG) Substation due to suspected malfunctioning of Gas Density relay. 220HV Bus-1,283 along with elements connected to them tropped during the very exert. (iii) As per PMUI at BhaddsiPG), no fault in system is observed. (iii) As per PMUI at BhaddsiPG), no fault in system is observed. (iv) POWERGRID has been communicated to share the exact details of event along with remedial action taken.	11220 KV Bhaddle(F) - Bus 1 22 20 KV Bhaddle(F) - Bus 2 31 220 KV Bhaddle(F) - Bus 2 31 220 KV Bhaddle(F) - Bus 3 34 400(220 kV 500 MAN LCT 1 at Bhaddle(F) 51 400(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 400(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 400(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 400(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 400(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 200(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 200(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 200(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 200(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 200(220 kV 500 MAN LCT 3 at Bhaddle(F) 61 220 kV 8haddle(F)-AREPRL CLt 2 61 220 kV 8haddle(F)-CREP LCt 2
11	L (GD-1	Rajasthan	16-Oct-2023 12:32	16-Oct-2023 20:58	08:26	700	0	1.376	0.000	50859	52036	I Total generation of 220kV TPGEL & 220kV TPSL RE stations evacuates through 220 kV TATA Noorsar St. BkN PG (TPGEL) elikaner(PG) (TPGEL) Ckt. During antecedent condition, total generation evacuating through TPGEL line was 325-WW (220kWV TPGEL and 1056kW TPSL). Jik reported, at 1522km, 220 kV TATA Moorsar St. BkN PG (TPGEL) Skater(pG) (TPGEL) Ckt tripped on Y-8 phase to phase fault. iii) As per PMU at Bikaner(PG), Y-8 phase to phase fault which cleared within 80mscs is observed. yo be to tripping of 2020 YTPGEL line, totals olar generation (St.25kW) evacuating through the line lost. y) As per PMU plots of voltage at RE stations of 220kV lines connected at different pooling stations, it is observed that during the fault phase voltage dropped to "0.85pu at Bikaner(PG), O36pu at Bikand(2PG), O36pu at at Bikand	1) 220 KV TATA Noorsar SL_BKM PG (TPGEL)-Bilaner(PG) (TPGEL) Ckt
12	2 (GD-1	Rajasthan	16-Oct-2023 14:54	16-Oct-2023 16:43	01:49	144	0	0.338	0.000	42560	48686	i) Generation of 220k/ AHEJAL PSS N RE stations evacuates through 220 KV Adani RenewPark, St., FGARH, FBTL (ABEPRL)-AHEJAL PSS A HB. FGRAH_FBTL (AHEJAL) (AREPRL) CIt. During antecedent condition, AHEJAL PSS N RE station was generating approx. 144kW. II) As reported, at 13-51km, 220 KV Adani RenewPark, S., FGARH, FBTL (AMEPRL) AHEJAL PSS A HB. FGRAH_FBTL (AHEJAL) (AREPRL) CIt tripped on R-NI phase to earth fault. III) App FYMAL SOS data, R-NI phase to earth fault with insucrated JAF ROperation at AFSPS end is observed. Line instantaneously tripped from AHEJAL PSS V end. IV) Due to ripping of 220kV AHEJAL PSS V Iline, RE (wind) generation (154kMV) of the RE station lost due to loss of exacuation path. IV) App FYMAL JOS Ovalbage ARE Station of 220kV lines connected at different pointing stations, voltage was above 0.5pu at RE station end. It was in the range of 0.95-0.98pu. No drop in solar generation connected at ISTS pooling station in Rajasthan RE complex is observed.	1) 220 KV Adaini RenewPark, SL, FGARH, FBTL (AREPRL)-AHEJAL PSS 4 HB, FGRAH, FBTL (AHEJAL) (AREPRL) Cxt
15	3	GI-2	Rajasthan	21-Oct-2023 16:50	16-Oct-2023 18:45	01:55	150	0	0.347	0.000	43166	49311	755/400/220W Bhadla PG has double main single breaker bus scheme at 220W level, there are total six (96) buses. Parallel buses are separated bus bus coupler and adjacent buses are separated by bus ectionisers. During antecedent condution, all bus coupler and sectionaliser were in closed condition. 19 in Aprender, at 1650-95 hn, RA flast occurred on 220W Bhadle(PS-SURQISERSF) Lot. On this fault, line protection operated however, CB didn't open at Bhadle end. Further, as CB of ESUCRISERSFU] cst didn't open at Bhadle(PS-SURQISERSFU). Cst On this fault, line protection operated however, CB didn't open at Bhadle end. Further, as CB of ESUCRISERSFU] cst	1) 220kV Bhadiai(PG)+SUCRL(SBEEPL) dxt 2) 220kV Bhadiai(PG)+TPREL ckt 3) 220kV Bhadiai(PG)+MPPL ckt 4) 40/0220kV SOMVA ET-6 at Bhadiai(PG) 5) 220kV Bhadiai(PG) Bur-4
14	1 (GD-1	Uttar Pradesh	22-Oct-2023 06:00	22-Oct-2023 08:31	02:31	0	100	0.000	0.225	35812	44496	1) 220/1328V Sikandra [Agra2] (UP) 5/s has double main transfer bus scheme at 220kV level. However, during antecedent condition, all the elements were connected to 220kV Bus-1 only. 220kV Bus-2 and transfer were not in service consistion. 1i) As reported, at 06.00 Ins., 220 kV Auralya(NT)-Agra2[UP) [FG] Cit-18.2 tripped. At the same time, bus bar protection of 220kV Bus-1 at 220kV Agra2[UP) operated and ast all elements at Agra2[UP) were connected to 220kV Bus-1 only. 20kV element at Agra2[UP) inged. Detail related to exact location and nature of last look not excelled from UP. 1ii) As per PMU at Agra[PG], Bet phase to earth fault with unsuccessful A/R operation is observed. As per SCADA SGB at NRIDC, it seems that A/R operation occurred in 220kV Agra2[UP)-Paga[UP]. Agra2[UP]. Sch. 1 UP has been communicated to share the PG/RE1 to ascertable the exact sequenced of the event. 1v) Due to tripping of 220kV Bus-1, supply to 132kV side of Sikandra (Agra2) [UP] also lost which resulted into total blackout of 220/132kV Sikandra (Agra2) (UP) 5/s. 1v) As per SCADA, change in demand of approx. 100MW is observed in UP control area.	11 220 KV Auralya(NT)-Agra2(UP) (PG) Ckt-1 2) 220 KV Auralya(NT)-Agra2(UP) (PG) Ckt-2 3) 2200K Agra1(UP)-Agra2(UP) Ckt-1 4) 2200K Agra1(UP)-Agra2(UP) Ckt-2 5) 2200K Agra1(UP)-Agra2(UP) Ckt-2 5) 2200K Agra1(UP)-Krawall Ckt 220(21)32XV (500KM KCT)-3 at Agra2(UP) 7) 220(3)23XV (500KM KCT)-3 at Agra2(UP) 9) 220(3)33XV 600KM KCT-3 at Agra2(UP) 9) 220(3)33XV 600KM KCT-5 at Agra2(UP)
15	5 (GD-1	Rajasthan	31-Oct-2023 15:28	31-Oct-2023 18:45	03:17	47	0	0.131	0.000	35896	51145	1) During antecedent condition, total generation of 220kV AHEJI, was evacuating through 20 KV Fatehgain_IJIPG/-AHEJI. PSS HB_FGRAH_PG (AHEJI.) (AHEJI.) Cat which was carrying apprine. 47RW. 1) A sepremal, at 152 Bhr, 220 KV Fatehgain_IJIPG/-AHEJI. PSS HB_FGRAH_PG (AHEJI.) (AHEJI.) Cat tripped on earth fault due to high wind condition. 10) As per PANU plots of voltage at RE stations connected at 220kV or 400kV level of different pooling stations, it is observed that during the fault phase voltage dropped to ~0.95pu at shadula[PG/-0, 55pu at sha	1) 220 KV Fatehgarh_II[PG]-ÄHEJ3L PSS HB_FGRAN_PG (AHEJ3L) (AHEJ3L) Ckt

ग्रिड-इंडिया GRID-INDIA Details of Grid Events during the Month of October 2023 in Western Region % Loss of generation / loss of Loss of generation / loss of Category of Grid Generation/Load in the load during the Grid Event Regional Grid® egional Grid during the Grid Time and Date of Time and Date of Event Affected Area Brief details of the event (pre fault and post fault system conditions) Elements Tripped rrence of Grid Ev (HH:MM (GI for GI 2) Load Loss % Generatio % Load GD-1 to GD-5) Loss(MW (MW) Loss (MW) Generation (MW Load (MW ripping of follwing elements-220 kV Ratlam-Rus-2 At 16:29 hrs/ 01-10-2023, failure of R phase potential transformer of 220 kV Ratlam-Bus-2 resulted in bus bar protection operation and 220 kV Ratlam-Bus-2 and all connected elements tripped. Load loss of 54 MW occurred at 220 kV Ratlam (Madhya Pradesh) due to the event. 01-Oct-23 17:34 2. 220 kV Ratiam-ICT-2&3 3. 220 kV Ratiam-Nagra-2 GD-1 WR 01-Oct-23 16:30 01:04 54 0.10% 61714 55518 I. 220 KV Badnawar-Ratlam-2 ripping of follwing lines . 400 kV Jetpur-Bus-1 At 16:15 hrs/ 09-10-2023, Blast of B phase HV side current transformer of 400/220 kV Jetpur-ICT-1 resulted in bus bar protection operation in 400 kV Jetpur-Bus-1, 400 kV Jetpur-GI-2 WR 09-Oct-23 16:15 09-Oct-23 17:15 01:00 79626 67090 2. 400 kV CGPL-Jetpur-1 Bus-1 and all connected elements tripped. No Load loss occurred due to the event. 3. 400 kV Jetpur-Amreli-1 4. 400/220 kV Jetpur-ICT-1&3 ripping of follwing elements 220 kV Navcari-Nacik-18.7 . 220 kV Navsari-Nasik-1&2 . 220 kV Navsari-Dastan-1&2 . 220 kV Navsari-Talangpore t 06:49 Hrs / 12-10-2023, HV side B phase CT of 220/66 kV 50MVA Navsari(GJ) ICT-5 failed and resulted in tripping of 220 kV Navsari Main Bus and all the connected elements o GD-1 WR 12-Oct-23 06:49 12-Oct-23 07:15 00:26 314 0.48% 76937 65523 LBB protection operation resulting in blackout at 220 kV Navsari(GJ). As per PMU plot, initially fault was in B phase and converted into three phase fault due to fumes from burst CT. . 220 kV Navsari-Popda oad loss of 314 MW reported during the event . 220 kV Navsari-Atul . 220 kV Navsari-Ambheta . 220/66 kV Navsari-ICT- 1,2,5&7 3 220/66 kV Navsari-ICT- 3 4&6 I. 220 kV Khandwa- Bhawsinghpura 13-Oct-23 12:20 13-Oct-23 16:02 GD-1 WR 03:42 186 0.24% 78304 69113 220 kV Khandwa-Bhawsinghpura line also tripped from Bhawsinghpura end only on Y-B phase fault (week infeed) resulting in total blackout at 220 kV Bhawsinghpura and 220 kV Kanwani . Generation loss of 186 MW at Masaya Solar (101MW at 220 kV Bhawsinghpura and 85 MW at 220 kV Kanwani) observed due to loss of evacuation path. 2. 220 kV Kanwani- Bhawsinghpura Tripping of follwing elements-1. 220 kV Boisar(PG)-Boisar(MH)-1 At 12:47 Hrs /17.10.2023, 220 kV Boisar(PG) Bus-1 tripped due to mechanical failure of Bus coupler R phase isolator(89A/204 Bay). Mechanical failure of isolator Bus Post Insulator 220 kV Roisar(PG)-Roisar(MH)-2 GI-1 WR 17-Oct-23 12:47 17-Oct-23 13:29 00:42 286 0.42% 73315 68694 (BPI) led to falling of Bus coupler R phase isolator, 220 kV Boisar(PG) Bus-1 and all connected element tripped. Load loss of 286 MW reported by MSLDC due to LTS operation in 220 kV Boisar(PG)-Boisar(MH)-3 8. 220 kV Boisar-Tarapur, 8. 400/220 kV ICT-2(315 MVA) 5. 400/220 kV ICT-4(500 MVA) Tripping of follwing elements-1. 220 kV Boisar(PG)-Boisar(MH)-1 2. 220 kV Boisar(PG)-Boisar(MH)-2, At 14:28 Hrs /22.10.2023, 220 kV Boisar(PG)-Boisar(MH)-1 Tripped from Boisar(PG) end on R-E fault with A/R successful at Boisar(MH) end, 220 kV Boisar(PG)-Boisar(MH)-2 Tripped on R-N Bult a both ends. 220kV Boisar(MH)-Ghodbunder Line tripped on R-N fault from Boisar end and holding from Ghodbunder end. 220kV Boisar(PG)-Boisar Line-3 and 220kV Tarapur-Boisar were already under outage. This led to 188 MW of load loss at 132kV Palghar Substation-75.8MW and 132kV MIDC Substation-122.8M WW as reported by SLDC GI-1 WR 22-Oct-23 14:28 22-Oct-23 14:47 00:19 188 0.27% 68537 68684 Maharashtra. 8. 220kV Boisar(MS)-Ghodbunder Tripping of follwing elements-L. 220 kV Bachau-Ostro-1&2 At 12:59 hrs /29-10-2023, 220 kV Bachau-Ostro-1&2 tripped on B-E fault and blackout occurred at 220 kV Ostro due to loss of evacuation path. No generation loss occurred due to GD-1 29-Oct-23 12:59 29-Oct-23 14:39 01:40 70573 66592 . 400 kV Dhule-SSP-1&2 At 19:19 hrs /30-10-2023, LBB protection operated and 400 kV SSP-Bus-2 and all connected elemnts tripped (presently SSP is being run with split bus arrangement). During 400 kV SSP-Raigarh-2 GI-2 WR 30-Oct-23 19:19 30-Oct-23 21:04 01:45 600 0.84% 71078 64716 nspection feeder due to which LBB operated couldn't be identified and there was no fault during the tripping. Generation loss of 600 MW occurred at 400/220 kV SSP (Sardar Sardar Power Plant) due to the event. I. 400/220 kV SSP ICT-1&2 5. SSP (RBPH)-Unit-2&4 (200 MW) 6. 220 kV CHPH-RBPH-1&2

Details of Grid Events during the Month of October 2023 in Southern Region

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	GRID-	INDIA

	Details of Grid Events during the Month of October 2023 in Southern Region												GRID-INDIA
SI 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 Genera Regional		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)			
1	GD-1	Tamil Nadu	02-Oct-23 10:40	02-Oct-23 12:09	01:29	573	0	1.20%	0.00%	47699	49492	Tripping of 230W Bis-2 of 400kV/230kV Alamathy So of TANTRANSCO and Complete Outage of 230kV OPG_CPP SS: As per the reports submitted, the triggering incident was R-Y fault in Bis-2 at Alamathy end. Immediately, 230kV Alamathy Bis-2 BBP operated and all the elements connected to the bus tripped which included 230kV Alamathy-OPG-2. With the tripping of 230kV Alamathy-OPG-2, 230kV Alamathy-OPG-1 got overloaded and due to which B-phase jumper failure created a B-N fout in 230kV Alamathy OPG Line-1 and the line tripped resulted in a complete outage of 230kV OPG_CPP SS. At the same time, NTECL Vallur Unit-3 tripped on Low forward power protection.	3. 230kV Alamathy Mosur
2	GD-1	Andhra Prasdesh	03-Oct-23 14:10	03-Oct-23 15:02	00:52	0	0	0.00%	0.00%	48363	54821	Complete Outage of Gautami_CCCP: During antecedent conditions, 400kV Vernagiri Gautami_CCCP line-1 was under idle charged condition. As per the reports submitted, the triggering incident was B-N fault in 400kV Vernagiri Gautami_CCCP lin-2. Tripping of the only connected line resulted in complete outage of Gautami_CCCP.	1. 400kV Vemagiri Gautami_CCCP line-2
3	GD-1	Tamil Nadu	05-Oct-23 14:51	05-Oct-23 15:12	00:21	0	182	0.00%	0.31%	48447	59379	Complete Outage of 230kV/110kV Taramani Ss of TANTRANSCO: During antecedent conditions, 230kV Kalivendspattu Taramani, and 230kV Taramani Rapuram, 220kV Taramani Mylapuram, 220kV Taramani Taramani Mylapuram, 220kV Taramani Taramani Mylapuram were idde charged from Taramani end. As per the reports submitted, the triggering incident was Y-N fault in the 230kV Taramani Sriperumbudur line. Tripping of the only power supply source resulted in complete outage of 220kV/110kV Taramani SS.	1. 230kV Sriperumbudur Taramani Line
4	GD-1	Karnataka	06-Oct-23 11:30	06-Oct-23 12:09	00:39	0	180	0.00%	0.30%	51272	59928	Complete Outage of 220kV/66kV Koramangala SS and 220kV/66kV Nimhans SS of KPTCI: During antecedent conditions, 220kV EDC Nimhans was under outage. 220kV/66kV Koramangala SS and 220kV/66kV kimhans SS, were being radially fed through 220kV Koramangala HSR line. As per the reports submitted, the triggering incident was a Y-N Butf in the 220kV Koramangala Nimhans line and the line tripped. At the same time, 220kV HSR Koramangala line tripped at HSR end and further details are awaited. This resulted in a complete outage of 220kV/66kV Koramangala SS and 220kV/66kV Nimhans SS.	1. 220kV Koramangala Niinhans 2. 220kV Koramangala HSR
5	GD-1	Karnataka	09-Oct-23 09:16	09-Oct-23 09:32	00:16	0	372	0.00%	0.63%	49644	58974	Complete Outage of 220kV/66kV A Station, 220kV/66kV Subramanyapura SS, 220kV/66kV Peenya SS, 220kV/66kV Brindavan SS, 220kV/66kV Station and 220kV/66kV Subramanyapura SS, 220kV/66kV Peenya SS, 220kV/66kV A Station, 220kV/66kV Subramanyapura SS, 220kV/66kV Peenya SS, 220kV/66kV Subramanyapura SS, 220kV/66kV Peenya SS, 220kV/66kV Subramanyapura SB, 220kV/66kV Subram	1. 220kV Nelamangala Peenya Line 28.3 2. 220kV Nelamangala Brindavan
6	GD-1	Karnataka	09-Oct-23 16:46	09-Oct-23 17:15	00:29	1085	0	2.48%	0.00%	43670	53133	Complete Outage of 400kV/22kV UPCL SS and Tripping of 220kV Bus-1 of 220kV/110kV Kemar SS of KPTCL: During antecedent conditions, 220kV/110kV Kemar SS was operating with split bus condition at 220kV level. As per the reports submitted, the triggering incident was Y4 fault in 400kV UPCL Hebbanshalli Line-2. Immediately, UPCL uni-1 tripped on over frequency, Tripping of units and lines resulted in complete outage of 400kV/22kV UPCL SS. Since, 220kV Kemar Bus-1 was radially fed from 400kV/220kV UPCL SS, this resulted in loss of supply to 220kV Bus-1 of 220kV/110kV Kemar SS.	1. 400kV hebbanahally UPCL Line-182 2. UPCL Unit-182
7	GD-1	Karnataka	10-Oct-23 12:35	10-Oct-23 15:45	03:10	16	258	0.03%	0.42%	51512	60930	Complete Outage of 220kV Nandhihal , 220kV/11kV Bijapur SS, 220kV/110kV Indi SS and 220kV/110kV Aheri SS of KPTCL and 220kV/33kV Valshali: During antecedent conditions, all elements were connected to 220kV bas-1 at 220kV Nandhihal Ss. As per the reports submitted, the triggering incident was R-M fault in 220kV Codg, NTPC Nandhihal Ine-4. At the same time, 220kV kudg, NTPC Nandhihal Ine-3 which was under outagel sement feat list in zone-1 for 202mS. This let of 220kV 180 persoint constraints connected to the 220kV Bus-1 tripped resulting in complete outage of 220kV Nandhihal SS. Since, 220kV/11kW Bijapur SS, 220kV/110kV Indi SS, 220kV/110kV Aheri SS and 220kV/33kV Valshali were being radially connected to 220kV Nandhihal, outage of Nandhihal resulted in complete outage of these stations.	2. 220kV Nandhihal Bijapur Line-1&2
8	GD-1	Karnataka	15-Oct-23 09:42	15-Oct-23 11:15	01:33	24	150	0.05%	0.27%	48432	55187	Complete Outage of 220kV/110kV Bagewald SS of kPTCL, 220kV Baluthi, 220kV Fortune SS, 220kV Aria SS and 220kV RBRK SS : As per the reports submitted, the triggering incident was a failure of the 220kV Bus coupler at 220kV/110kV Bagewald SS causing R+N Ball in 220kV Bus 1 and 220kV Bus 2. Immediately, 220kV Bus 1 and Bus 2 BBP operated and all the elements connected to the buses tripped resulting in a complete outage of 220kV/110kV Bagewald SS. Since 220kV Baluthi, 220kV Fortune SS, 220kV Airia SS and 220kV BBRK SS are radially connected with 220kV/110kV Bagewald SS outage of 220kV/56kV Bagewald SS resulted in complete outage of these stations.	3. 220kV Bagewadi Nandihal Line-1&2
9	GD-1	Karnataka	17-Oct-23 12:06	17-Oct-23 14:06	02:00	0	400	0.00%	0.69%	50141	58117	Tripping of 400kV Bur. 2 of 400kV/220kV Guttur SS and complete outage of 220kV/150kV Ranebenur SS, 220kV/56kV Davanagere SS, 220kV/56kV Hosadurga SS, 220kV/56kV Hosadurga SS, 220kV/56kV Contur SS of 67th CL. As per the reports submitted, the triggering incident was YM fault in 400kV Bur. 2 of 400kV/220kV Contur SS. Immediately, Bur. 2 BBP operated and all the elements connected to the bux tripped. Since, 220kV/100kV Ranebenur SS, 220kV/56kV Contur SS. Immediately, Bur. 2 BBP operated and all the elements connected to the bux tripped. Since, 220kV/100kV Ranebenur SS, 220kV/56kV Hosadurga SS	2. 400kV Guttur Naendra Line-2 3. 400kV Guttur Doni Line
10	GD-1	Karnataka	17-Oct-23 12:10	17-Oct-23 13:43	01:33	0	160	0.00%	0.28%	49912	58158	Complete Outage of 220kV/66kV Alipura SS of KPTCL: As per the reports submitted, the triggering incident was 8-N fault in 220kV Alipur BTPS line. At BTPS end, the fault was sensed in zone-1 and the line tripped. Alipur and failed to clear the fault, and the fault was cleared by 220kV Alipur Regulpadu end on operation of zone-3 at Regulpadu end with a delay of 750km. Tripolane of both connected line resulted in connected or 20kW 65kW failours SS.	1. 220kV Alipura BTPS 2. 220kV Alipura Regulpadu
11	GD-1	Karnataka	27-Oct-23 04:05	27-Oct-23 10:00	05:55	2	30	0.01%	0.07%	37968	43970	Complete Outage of 220kV/66kV HN Pura_55 of KPTCL and 220kV/38kV Gopalpura 55 of Sudom_KA: As per the reports submitted, due to issue in DC supply at Gopalpura end. 220kV Gopalpura Hassan and 220kV Gopalpura Tubrikire lines tripped only at Gopalpura end. Trippig of both these lines resulted in complete outage of 220kV/38kV Gopalpura 55 which further resulted in complete outage of 220kV/58kV HN_Pura_55.	1. 220kV Gopalpura Hassan 2. 220kV Gopalpura Tubinkere
12	GI-1	Telangana	15-Oct-23 00:35	15-Oct-23 02:07	01:32	250	0	0.62%	0.00%	40419	46104	Tripping of 220kV Bus-2 of 220kV132kV Nagar PH of TSGENCO: As per the reports submitted, the triggering incident was maloperation of 220kV Nagar PH Bus-2. Immediately all the elements connected to the bus tripped.	1.220kV Tallapalli Nsagar_PH Line-2&3 2.220kV Nsagar Chalakurthy 3. Nsagar Uni-4, & 8 4. 220kV/132kV 100MVA PTR-2

	Details of Grid Events during the Month of October 2023 in Southern Region														
Category Ev	rent	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of ent 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 1o GD-1 to					(Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)				
.3 GI	l-1	Karnataka	18-Oct-23 15:17	18-Oct-23 17:09	01:52	0	0	0.00%	0.00%	49397	57864	Tripping of 220kV Bus-1 of 400kV/220kV Munirabad Ss of PGCIL SR-1: During antecedent conditions, at 400kV/220kV Munirabad Ss, main circuit breaker of 220kV Munirabad Lingapur line-2 was bypassed and the line was charged through Bus Coupler by connecting to 220kV Bus-1. The triggering incident was the tripping of 220kV Munirabad Lingapur II. 220kV Mulline-2 on the R-N fault. Since this is the only line connected to Bus-1 at Munirabad, this resulted in the de-energization of 220kV Bus-1 of 400kV/220kV Munirabad Ss.	nirabad Lingapur line-2		
4 GI	1-2	Telangana	26-Oct-23 05:25	26-Oct-23 10:34	05:09	460	0	1.15%	0.00%	39878	44291	Tripping of 400kV Bus-2 of 400kV Boopalpally Generating station of TSGENCO: As per the reports submitted, the triggering incident was Breaker failure in GT-2 of 400kV Boopalpally Causing an R-N fault near the breaker. The fault was cleared by remote ends on DEF operation resulting in outage of 400kV Bus-2 of 400kV Boopalpally Generating station.	opalpally Warangal Line-1&2 opalpally Chandlapur Line-2		
15 GI	I-1	Andhra Pradesh	28-Oct-23 11:15	28-Oct-23 15:47	04:32	0	0	0.00%	0.00%	56344	60366	Tripping of 220kV Bus-1 of 400kV/220kV Sattenapally SS of APTRANSCO: As per the reports submitted, the triggering incident was Y-N fault in 220kV Bus-1 of 400kV/220kV Sattenapally SS. Immediately, 220kV BBP operated and all the elements connected to the bus tripped.	DkV Sattenapally ICT-1&3 tenapally NarsaraoPet Line-1 ttenapally Parchuru Line-1 tenapally Prathipadu Line-1		

								I	Details of 0	Grid Events du	iring the M	onth of October 2023 in Eastern Region	🕠 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)					Antecedent Generation/Load in the Regional Grid®		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 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	Teesta V, Teesta III, Dikchu	04-Oct-23 02:55	Still Out	-	0	0	0.00%	0.00%	27350	20289	At 00.50 hrs on 04-10-2022, due to continuous high slit and rise in inflow in the upstream area of the reservoir, all units at Teesta-III (0*200 MW) (Dn bar gen 1300 MW) taken out of bar. 400 M Teesta III and III a	N/ Bargoo Testa V D/c Litypeg/De-specthoused: V/ Testa 3-Bargoo V/ Testa 3-Bargoo V/ Testa 3-Bargoo V/ Testa 3-Bargoo W/ Testa 3-Bargoo W/ Testa 3-Bargoo W/ Walst at Testa 3 B MW Units at Testa 3 MW Units at Testa 5 MW Units at Dischu HEP
2	GD-1	Rongnichu	09-Oct-23 11:13	09-Oct-23 18:17	07:04	103	0	0.39%	0.00%	26407	22285	At 11:13 Hrs, 220 kV Rangpo-Rongrichu-2 tripped on Y, 8 fault, leading to loss of evacuation path for two running units at Rongrichu as 220 kV Rangpo-Rongrichu-1 was aiready under emergency shutdown. Consequently, total power failed at Rongrichu S/s and around 103 MW generation loss occurred.	tV Rangpo-Rongnichu-2
3	GI-2	Barh	27-Oct-23 10:15	27-Oct-23 18:29	08:14	570	0	2.04%	0.00%	27960	19636	At 10:15 Hrs, Afr observed in 400 kV Barh-Motihari-2 which was successful from both ends, however, teed protection operated in its tie bay at Barh and the dia element 400 kV 400	IV Barh-Motihari-2 (A/r successful) VI Kahalgaon-Barh-2 WW U#Z at Barh

Details of Grid Events during the Month of October 2023 in North Eastern Region



	Details of Grid Events during the wionar of October 2025 in North Eastern Region												GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)		ration / loss of the Grid Event	% Loss of genera load w.r.t An Generation/L Regional Grid du Even	ntecedent oad in the ring the Grid	Antecedent General Regional		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 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	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	03-Oct-23 03:00	03-Oct-23 03:32	00:32	14.5	17.5	0.62%	0.80%	2344	2183	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with the rest of the grid by 132 kV Balipara - Tenga line. At 03:00 Hrs of 03/10/2023, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System go parameted from rest of the grid due to load generation mismatch in these areas, Power was extended to Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 03:32 Hrs.	132 kV Balipara - Tenga line
2	GD-1	Sarupathar and Golaghat areas of Assam Power System	04-Oct-23 13:58	04-Oct-23 15:12	01:14	0	43	0.00%	1.79%	2376	2408	Serupather and Golaghat areas of Assam Power System were connected with the rest of the grid by 132 kV Sarupathar-Bokajan line. 132 kV Golaghat Markins(IAS) line was under planned shutdown prior to event. At 1358 km of 04/07/2023, 12 kV Sarupathar-Bokajan line risped. But to triping of this element, Sarupathar and Golaghat areas of Assam Power System got separated from rest of NER grid due to no source available in these areas. Power was extended to Sarupathar and Golaghat areas of Assam Power System by charging 132 kV Sarupathar-Bokajan line at15:12 hrs on 04/10/2023.	132 kV Sarupathar-Bokajan line
3	GD-1	Zuangtui, and radially connected 132 kV Saitual, Vankal, Serchhip and Lunglei substations of Mizoram Power System	04-Oct-23 19:57	04-Oct-23 21:31	01:34	0	34	0.00%	1.09%	3361	3128	Zuangtui, and radially connected 132 kV Saltual/Vankai, Serchhip and Lunglei substations of Mizoram Power System were connected with the rest of the grid by 133V Medical(Pio) - Zuangfui line. At 1957 hrs of 04/07/2023, 123V Medical(Pio) - Zuangfui line tripped. Due to tripping of this element, Zuangfui, and radially connected 132 kV Saltual/Vankai, Serchhip and Lunglei substations of Mizoram Power System got separated from rest of NET grid due to no source available in these acts of European Systems (Systems of European Systems). Prover was extended to European Systems of Systems (Systems by Change 132kV Medical(Pio) - Zuangfui line 21215 hr on 04/10/2022.	132kV Melriat[PG) - Zuangtul line
4	GD-1	Margherita(Ledo), Rupai and Chapakhowa areas of Assam Power system and Roing, Pasighat areas of Arunachal Pradesh Power System	15-Oct-23 09:38	15-Oct-23 10:14	00:36	0	52	0.00%	2.57%	2461	2020	Margherita(Ledo), Rupal and Chapakhowa areas of Assam Power system and Roing, Pasighut areas of Arunachal Pradesh Power System were connected with the rest of the grid by 132 kV Tinsukia-Margherita(Ledo) line. At 09.38 Hrs of 15/10/2023, 132 kV Tinsukia-Margherita(Ledo) line tripode. Due to tripoging of this element, Margherita(Ledo), Rupal and Atopashtowa areas of Assam Power System and Roing, Pasighut areas of Arunachal Pradesh Power System got separated from rest of the grid due to no source available in these areas. Power was extended to Margherita(Ledo), Rupal and Chapakhowa areas of Assam Power system and Roing, Pasighut areas of Arunachal Pradesh Power System by charging 132 kV Tinsukia-Rupal line at 10:14 His.	132 kV Tinsukia-Margherita(Ledo) line
5	GD-1	Lakwa area of Assam Power System	17-Oct-23 19:32	17-Oct-23 20:55	01:23	150	0	4.13%	0.00%	3635	3029	Lakus area of Assam Power system. LTPS & LBPP generation was connected with the rest of the grid by 132 IV. LTPS-Nazira D/C, 132 kV. LTPS-Marran 132 kV LTPS-Marran 133 kV LTPS-Marran 133 kV LTPS-Marran 133 kV LTPS-Marran 134 kV LTPS-Marran 1	132 kV LTPS Bus
6	GD-1	Dharmanagar area of Tripura Power system	19-Oct-23 01:47	19-Oct-23 02:25	00:38	0	22	0%	1%	2700	2149	Dharmanagar area of Tripura Power system was connected with the rest of the grid by 132 kV Dharmanagar-Dullavchhera and 132 kV PK Bar-Dharmanagar lines. At 01:47 hrs of 15/10/2023, 132 kV Dharmanagar-Dullavchhera and 132 kV PK Bar-Dharmanagar lines tripped. Due to tripping of these elements, Dharmanagar area of Tripura Power system got separated from rest of the grid due to no source available in this area. Power was extended to Dharmanagar area of Tripura Power system by charging 132 kV Dharmanagar-Dullavchhera line at 02:25 Hrs.	132 kV PK Barl-Dharmanagar & 132 kV Dharmanagar-Dullavchhera
7	GD-1	Mokokchung area of Nagaland Power System	27-Oct-23 11:56	27-Oct-23 13:20	01:24	0	12	0%	1%	2170	2173	Mokokchung area of Nagaland Power system was connected with the rest of the grid by 132 kV Doyang-Mokokchung & 132 kV Mokokchung[PG]-Mokokchung[NL]D/C lines. At 11:56 Hrs of 27(A)D(202,3 12 kV Doyang-Mokokchung & 132 kV Mokokchung[PG]-Mokokchung]NL]D/C lines tripped. Due to this tripping, Mokokchung area of Nagaland Power system got seperated from rest of the grid due to no source available in this area. Power was extended to Mokokchung area of Nagaland Power system by charging 132 kV Mokokchung[PG]-Mokokchung[NL]+ & 132 kV Doyang-Mokokchung line at 13:20 Hrs of 27/10/2023.	132 kV Doyang-Mokokchung & 132 kV Mokokchung[PG]-Mokokchung[NL] D/C
8	GD-1	Pailapool area of Assam Power system	30-Oct-23 12:47	30-Oct-23 12:53	00:06	20	23	0.92%	1.12%	2169	2045	Paliapool area of Assam Power system was connected with the rest of the grid by 132 kV Jirkham/PG}-Paliapool and 132 kV Srikona- Paliapool lines. 132 kV Srikona-Paliapool line was under planned shutdown prior to the event. At 12-47 Hrs of 30/10/2023, 132 kV Jirkham/PG}-Paliapool line tripped. Due to tripping of this element, Paliapool area of Assam Power system gut separated from rest of the grid due to load generation mismatch in this area. Power was extended to Paliapool area of Assam Power system by charging 132 kV Srikona-Paliapool line at 12-53 Hrs of 30/10/2023.	132 kV Jiribam(PG)-Pailapool
9	GI-1	Tripura	08-Oct-23 06:20	08-Oct-23 08:00	01:40	26	0	1%	0%	3096	1859	AGTCCPP GT-IV & ST-VI tripped at 06:20 Hrs on 08.10.2023 due to Control MCC trouble. Revision done from Block No. 33 on 08.10.2023	AGTCCPP GT-4 & ST-6
10	GI-2	BGTPP	21-Oct-23 19:35	21-Oct-23 21:30	01:55	178	0	5%	0%	3544	2854	BGTPP Unit-3 tripped at 19:35 Hrs on 21.10.2023 due to Furnace Pressure high. Revision done from Block No. 87 on 21.10.2023	BGTPP Unit-3
11	GI-2	Kopili	22-Oct-23 03:35	22-Oct-23 06:30	02:55	50	0	2%	0%	2043	1770	Kopili Unit-3 tripped at 03:35 Hrs on 22.10.2023 due to excitation problem. Revision done from Block No. 27 on 22.10.2023	Kopili Unit-3
12	GI-1	Kopili Stg II	22-Oct-23 08:38	22-Oct-23 12:00	03:22	25	0	1%	0%	2385	1979	Kopili Stg-2 tripped at 08:38 Hrs on 22:10.2023 due to Overspeed forced trip. Revision done from Block No. 49 on 22:10.2023	Kopili Stg-II