Details of Grid Events during the Month of April 2025 in Northern 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 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	Rajasthan	02-04-2025 14:45	02-04-2025 16:22	01:37	1060	0	1.976	0.000	53641	45158	i)Generation of 400/33 KV Ayana_RP3PL(ARP3PL(IP)) station evacuates through 400kV ARP1PI-RP3PL line at 765/400/220kV Bikaner(PG) pooling station and of 400/33kV SJVN solar RE station through 400kV SJVN Solar-Bikaner(PG) line at 400/220kV Bikaner2(PG) Pooling station . ii)During antecedent condition, ARP3PL and SJVN solar were generating ~298MW and ~198MW respectively. iii)As reported, at 14:45hrs, 400 KV AYANA1 SL_BKN_PG (ARP1PL)-ARP3PL_SL_BIK_PG (Ayana_RP3PL) Ckt tripped on R-N phase to earth fault. iv)At the same time, 400kV SJVN Solar-Bikaner2(PG) ckt also tripped from SJVN Solar end on operation of directional earth fault protection operation at SJVN Solar end. v)Due to tripping of both the lines, complete solar generation of ARP3PL and SJVN Solar got affected due to loss of evacuation path. vi)As reported by SJVN solar, Directional E/F pick up setting at SJVN solar was sensitive and same has been revised from 0.1pu to 0.2 pu (CT ratio:2000/1). vii)As per PMU phase voltage & current plot of 400kV Ayana(ARP1PL)-Bikaner line (ARP1PL end), R-N phase to earth fault with no A/R operation is observed. viii)As per SCADA, drop in total NR solar generation of ~1060MW is observed. RE plants i.e., ARP3PL (carrying ~298MW) and SJVN solar (carrying ~198MW) tripped during the event.	1) 400 KV AYANA1 SL_BKN_PG (ARP1PL)-ARP3PL_SL_BIK_PG (Ayana_RP3PL) Ckt 2) 400kV SJVN Solar-Bikaner2(PG) ckt
2	GI-2	Rajasthan	02-04-2025 17:26	02-04-2025 20:01	02:35	140	0	0.276	0.000	50787	49293	i)400/220KV Jaisalmer(RS) has one and half breaker bus scheme at 400kV level and double main and transfer bus scheme at 220kV level. ii)During antecedent condition, 400 KV Jaisalmer(RS)-M/s Renew Hans urja pvt Ltd (RS) (RHUPL) Ckt-1 was carrying approx. 140 MW (as per SCADA). iii)As reported, at 17:26 hrs, B Phase CB pole of 125 MVAR Bus Reactor No 1 at 400 KV Jaisalmer(RS) damaged/ blast which further led to LBB protection operation. iv)Due to LBB operation, all the elements connected to 400kV Bus-2 at Jaisalmer(RS) tripped and Bus-2 became dead. v)As Jaisalmer(RS) has one and half breaker scheme at 400kV level, elements should not have tripped due to LBB protection operation. However, as reported, due to operation of all the tie CBs, all the 400kV elements connected to 400 KV Jaisalmer(RS) - Bus 2 tripped (LBB relay logic need to be reviewed). vi)As per PMU at Fatehgarh3(PG), B-N phase to earth fault is observed with fault clearing time of 80 ms. vii)As per SCADA, solar generation loss of approx. 140 MW is observed in Rajasthan control area.	1) 125 MVAR Bus Reactor No 1 at 400 KV Jaisalmer(RS) 2) 400 KV Kankani-Jaisalmer (RS) Ckt 3) 400 KV Jaisalmer(RS)-M/s Renew Hans urja pvt Ltd (RS) (RHUPL) Ckt-1 4) 400/220 kV 500 MVA ICT 1 at Jaisalmer(RS) 5) 400/220 kV 500 MVA ICT 2 at Jaisalmer(RS) 6) 400/220 kV 500 MVA ICT 3 at Jaisalmer(RS) 7) 400kV Bus-2 at Jaisalmer(RS)
3	GD-1	Rajasthan	06-04-2025 13:47	06-04-2025 22:40	08:53	130	0	0.253	0.000	51481	41494	i)Generation of 220 KV Azure34 (APTFL) (IP) station evacuates through 220 KV Bhadla(PG)-Azure Power 34 Solar(APTFL) (APTFL) Ckt. During antecedent condition, 220 KV Azure34 (APTFL) (IP) was generating approx. 130 MW (as per PMU). ii)As reported, at 13:47hrs, 220 KV Bhadla(PG)-Azure Power 34 Solar(APTFL) (APTFL) Ckt tripped on B-N phase to earth fault (exact nature, location and reason of fault yet to be received). iii)As per DR at Bhadla(PG) end, 220 KV Bhadla(PG)-Azure Power 34 Solar(APTFL) (APTFL) Ckt tripped on Y-N phase to earth fault with fault current of 5.949kA; fault sensed in zone-2 at Bhadla(PG) end. Fault clearing time was ~100ms. iv)Due to tripping of 220 KV Bhadla(PG)-Azure Power 34 Solar(APTFL) (APTFL) Ckt, 220 KV Azure34 (APTFL) (IP) S/s lost its connectivity from grid and blackout occurred at 220 KV Azure34 (APTFL) (IP) S/s. v)As per PMU at 220kV Bhadla(PG), R-N phase to phase fault (voltage dipped upto 0.847 p.u.) is observed with fault clearing time of 120ms. vi)As per PMU, solar generation loss of approx. 130 MW was observed at 220 KV Azure34 (APTFL) (IP).	1) 220 KV Bhadla(PG)-Azure Power 34 Solar(APTFL) (APTFL) Ckt
4	GD-1	Rajasthan	07-04-2025 10:02	07-04-2025 11:44	01:42	155	0	0.280	0.000	55428	53839	i)Generation of 220/33 KV Thar Surya1 (IP) station evacuates via 220 KV Bikaner(PG)-Thar Surya1(IP) Ckt through 220/33 kV 160 MVA ICT 1 & 2 at Thar Surya1 SL_BKN_PG (TS1PL). During antecedent condition, 220/33 kV 160 MVA ICT 2 at Thar Surya1 SL_BKN_PG (TS1PL) was already out (tripped at 14:27 hrs on 06.04.2025 due to pressure release valve operated). 220 KV Thar Surya1 (IP) was generating approx. 155 MW (as per PMU). ii)As reported, at 10:02hrs, 220/33 kV 160 MVA ICT 1 at Thar Surya1 SL_BKN_PG (TS1PL) tripped due to heavy sparking on LV side bay 309 (exact nature, location and reason of fault yet to be received). iii)Due to tripping of 220/33 kV 160 MVA ICT 1 at Thar Surya1 SL_BKN_PG (TS1PL), 220 KV Thar Surya1 (IP) S/s lost its connectivity from grid and blackout occurred at 220 KV Thar Surya1 (IP) S/s. iv)As per PMU at 400kV Bikaner(IP), B-N phase to phase fault is observed with delayed fault clearing time of 240ms. v)As per PMU, solar generation loss of approx. 155 MW was observed at 220 KV Thar Surya1 (IP).	1) 220/33 kV 160 MVA ICT 1 at Thar Surya1 SL_BKN_PG (TS1PL)
5	GD-1	Punjab	08-04-2025 22:20	08-04-2025 22:48	00:28	0	85	0.000	0.139	53868	60992	i)220/66KV Mehalkalan(PS) has double main bus scheme at 220kV level. ii)As reported, at 22:20 hrs, R-phase CT of 220kV bus-coupler damaged which further led to bus bar protection operation at both the 220kV buses of Mehalkalan(PS). iii)Due to busbar operation, all the elements connected to 220kV Bus-1 & 2 at Mehalkalan(PS) tripped and complete blackout occurred at 220/66KV Mehalkalan(PS). iv)As per PMU at Moga(PG), R-N phase to earth fault is observed with fault clearing time of 80 ms. v)As per SCADA, change in demand of approx. 85 MW is observed in Punjab control area.	1) 220 KV Moga(PG)-Mehal kalan (PS) (PSTCL) Ckt-1 2) 220 KV Moga(PG)-Mehal kalan (PS) (PSTCL) Ckt-2 3) 220 KV Pakhwal-Mehal kalan (PS) (PSTCL) Ckt-1 4) 220 KV Pakhwal-Mehal kalan (PS) (PSTCL) Ckt-2 5) 220/66 kV ICT 1 at MehalKalan(PS) 6) 220/66 kV ICT 2 at MehalKalan(PS)
6	GD-1	Haryana	09-04-2025 02:06	09-04-2025 03:36	01:30	0	85	0.000	0.153	48256	55656	i)220/132KV Fatehabad(HV) has double main bus scheme at 220kV level. ii)As reported, at 22:20 hrs, R-phase CT of 220kV bus-coupler damaged which further led to bus bar protection operation at both the 220kV buses of Fatehabad(HV). iii)Due to busbar operation, all the elements connected to 220kV Bus-1 & 2 at Fatehabad(HV) tripped and complete blackout occurred at 220/132KV Fatehabad(HV). iv)As per PMU at Fatehabad(PG), R-N phase to earth fault is observed with delayed fault clearing time of 480 ms. v)As per SCADA, change in demand of approx. 85 MW is observed in Haryana control area.	1) 220 KV Fatehabad(PG)-Fatehabad(HV) (HVPNL) Ckt-1 2) 220 KV Fatehabad(PG)-Fatehabad(HV) (HVPNL) Ckt-2 3) 220 KV Hissar(PG)-Fatehabad(HV) (HVPNL) Ckt-1 4) 220 KV Hissar(PG)-Fatehabad(HV) (HVPNL) Ckt-2 5) 220 KV Rania- Fatehabad(HV) (HVPNL) Ckt 6) 220/132 kV 200 MVA ICT 1 at Fatehabad(HV) 7) 220/132 kV 160 MVA ICT 2 at Fatehabad(HV) 8) 220/132 kV 200 MVA ICT 3 at Fatehabad(HV)

Details of Grid Events during the Month of April 2025 in Northern 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 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)		
7	GD-1	Uttarakhand	09-04-2025 13:58	09-04-2025 15:05	01:07	32	0	0.054	0.000	59159	53172	i)During antecedent condition, only 33MW Unit-1 at Singoli Bhatwari HEP was generating approx. 32MW. Total generation of 32 MW of Singoli Bhatwari was evacuating through 220 KV Singoli Bhatwari (Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-1 & 2. ii)As reported, at 13:58 hrs, 220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-1 tripped on R-Y-N double phase to ground fault with fault distance of 0.197km from Singoli Bhatwari end and 63.98km from Srinagar end. As per DR, fault current was Ir=~2.077kA and Iy=~1.79kA and fault distance was 63.1 (81.9 %) from Srinagar(UK) end; fault sensed in zone-2 and fault clearing time was ~60 ms. iii)During the same time, 220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-2 also tripped on R-Y-N double phase to ground fault with fault distance of 24.9km from Singoli Bhatwari end and 77km from Srinagar end. As per DR, fault current was Ir=~1.075kA and Iy=~0.963kA and fault distance was 77.0 (100.0%) from Srinagar(UK) end; fault sensed in zone-3 and fault clearing time was ~110 ms. iv)Due to tripping of 220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-1 & 2, 33MW Unit-1 at Singoli Bhatwari HEP tripped due to loss of evacuation path and blackout occurred at 220kV Singoli Bhatwari HEP. v)As per PMU at Muzaffarnagar(UP), R-Y-N double phase to ground fault is observed with fault clearing time of 120 ms. vi)As per SCADA, generation loss of approx. 32MW at Singoli Bhatwari HEP is observed.	1) 220 KV Singoli Bhatwari (Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-1 2) 220 KV Singoli Bhatwari (Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-2 3) 33MW Unit-1 at Singoli Bhatwari HEP
8	GD-1	Himachal Prades	10-04-2025 17:29	10-04-2025 20:04	02:35	26	0	0.054	0.000	48099	50692	i)During antecedent condition, 50MW Unit-1 & 2 at Sorang(Greenko) HEP was generating approx. 26MW. ii)As reported, at 17:29 hrs, 400 KV Kala Amb(PKTL)-Sorang(Greenko) (Greenko) Ckt tripped on earth fault (exact reason, location and nature of fault yet to be shared). iii)During the same time, 50MW Unit-1 & 2 at Sorang(Greenko) HEP tripped (exact nature of protection operation yet to be shared) and complete blackout occurred at 400KV Sorang(Greenko) HEP. iv)As per PMU at Abdullapur(PG), no fault is observed in the system, however fluctuation in voltage is observed. v)As per SCADA, generation loss of approx. 26MW at Sorang(Greenko) HEP is observed.	1) 400 KV Kala Amb(PKTL)-Sorang(Greenko) (Greenko) Ckt 2) 50 MW Unit-1 at Sorang (Greenko) 3) 50 MW Unit-2 at Sorang (Greenko)
9	GD-1	Punjab	11-04-2025 14:19	11-04-2025 18:02	03:43	0	180	0.000	0.380	55223	47335	i)During antecedent condition, 220kV Jamalpur(BB)-Dandharikalan(PS) (PSTCL) Ckt-1 and 2 were under planned shutdown. ii)As reported, at 14:19 hrs, 220 KV DandhariKalanI(PS)-Ludhiana(PG) (PSTCL) Ckt-1 and 2 tripped on B-N phase to earth fault (exact nature, location and reason of fault yet to be shared). iii)Due to tripping of all the 220kV elements complete blackout occurred at 220/66KV Dandharikalan(PS). iv)As per PMU at Ludhiana(PG), two consecutive B-N phase to earth fault is observed with fault clearing time of 120ms and 560ms (delayed) respectively. v)As per SCADA, change in demand of approx. 180 MW is observed in Punjab control area.	1) 220 KV DandhariKalanI(PS)-Ludhiana(PG) (PSTCL) Ckt-1 2) 220 KV DandhariKalanI(PS)-Ludhiana(PG) (PSTCL) Ckt-2
10	GD-1	Rajasthan	11-04-2025 10:48	11-04-2025 12:46	01:58	50	0	0.094	0.000	53307	50965	i)During antecedent condition, 220KV Renew Sun Bright(IP) was generating approx. 50 MW (as per SCADA). Total generation of 220KV Renew Sun Bright(IP) evacuates through 220 KV Renew SunBright SL_FGARH_PG (RSBPL)-Fatehgarh_II(PG) (RENEW SUN BRIGHT (RSBPL)) Ckt. ii)As reported, at 10:48 hrs, 220 KV Renew SunBright SL_FGARH_PG (RSBPL)-Fatehgarh_II(PG) (RENEW SUN BRIGHT (RSBPL)) Ckt tripped on B-N phase to earth fault (exact nature, location and reason of fault yet to be shared). iii)Due to tripping of 220 KV Renew SunBright SL_FGARH_PG (RSBPL)-Fatehgarh_II(PG) (RENEW SUN BRIGHT (RSBPL)) Ckt, complete blackout occurred at 220KV Renew Sun Bright(IP). iv)As per PMU at Fatehgarh2(PG), B-N phase to earth fault with unsuccessful A/R is observed with fault clearing time of 120ms. v)As per SCADA, generation loss of approx. 50 MW is observed at Renew Sun Bright(IP).	1) 220 KV Renew SunBright SL_FGARH_PG (RSBPL)-Fatehgarh_II(PG) (RENEW SUN BRIGHT (RSBPL)) Ckt
11	GI-1	Uttar Pradesh	13-04-2025 05:54	13-04-2025 07:43	01:49	320	0	0.796	0.000	40195	49692	i)During antecedent condition, 210 MW Unchahar II TPS - UNIT 1 and 210 MW Unchahar III TPS - UNIT 1 were generating approx. 185 MW and 135 MW respectively (as per SCADA). ii)As reported, at 05:54 hrs, line CB at Unchahar end of 220 KV Kanpur(PG)-Unchahar(NT) (PG) Ckt-1 failed and LBB protection operated. This led to tripping of 220kV Bus-3 at Unchahar TPS. iii)Due to LBB protection operation 210 MW Unchahar II TPS - UNIT 1 and 210 MW Unchahar III TPS - UNIT 1 also tripped. iv)During the same time, 220 KV Unchahar(NT)-Raebareilly(PG) (PG) Ckt-3 tripped on directional earth fault protection operation (exact reason yet to be shared). v)As per PMU at Kanpur(PG), R-N phase to earth fault is observed with delayed fault clearing time of 640ms. vi)As per SCADA, generation loss of approx. 185 MW at Unchahar-II TPS and approx. 135 MW at Unchahar-III TPS is observed.	1) 220 KV Kanpur(PG)-Unchahar(NT) (PG) Ckt-1 2) 220 KV Kanpur(PG)-Unchahar(NT) (PG) Ckt-2 3) 220 KV Unchahar(NT)-Raebareilly(PG) (PG) Ckt-3 4) 220/6 kV 50 MVA ST 3 at Unchahar(NT) 5) 210 MW Unchahar II TPS - UNIT 1 6) 210 MW Unchahar III TPS - UNIT 1
12	GD-1	Uttar Pradesh	16-04-2025 03:16	16-04-2025 04:37	01:21	150	0	0.341	0.000	44021	52826	i)During antecedent condition, 110 MW Unit-2 & 3 at Vishnuprayag(UP) were generating approx. ~80 MW & 70 MW respectively (as per SCADA). ii)As reported, at 03:16 hrs, 400 kV Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt tripped on Y-B phase to phase fault with fault distance of 216.7km (76.44%) from Muzaffarnagar end and 51.35km (18.11%) from Vishnuprayag end. As per DR, fault current was Iy=1.76kA and Ib=~1.88kA from Muzaffarnagar end and fault sensed in zone-1 at Muzaffarnagar. iii)With the tripping of 400 kV Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt, 110 MW Unit-2 & 3 at Vishnuprayag(UP) also tripped due to loss evacuation path and complete blackout occurred at 400kV Vishnuprayag HEP(UP) S/s. iv)As per PMU at Muzaffarnagar(UP), Y-B phase to phase fault is observed with fault clearing time of 120 ms. v)As per SCADA, generation loss of ~150MW occurred at Vishnuprayag HEP.	i)400 KV Muzaffarnagar(UP)-Vishnuprayag(JP) (UP) Ckt ii)110 MW Vishnuparyag HPS - UNIT 2 iii)110 MW Vishnuparyag HPS - UNIT 3
13	GD-1	J&K	16-04-2025 19:43	16-04-2025 21:40	01:57	455	0	0.851	0.000	53474	66415	i)220kV Salal(NHPC) has double main bus scheme at 220kV level. During antecedent condition, 115 MW Salal HPS - UNIT 1, 2, 4 and 6 were generating approx. ~116 MW, 115MW, 111 MW & 113 MW respectively (as per SCADA). ii)As reported, at 19:43 hrs, Y-ph Line CT conductor of 220 KV Salal(NH)-Jammu(PDD) (PG) Ckt-1 broke and the line tripped on R-Y phase to phase fault (exact nature, location and reason of fault yet to be shared). iii)During the same time, busbar protection operated at both the 220kV buses of Salal(NH) (exact reason of same yet to be shared) and all the elements connected at Salal(NH) tripped and complete blackout occurred at 220kV Salal(NH) S/s. iv)As per PMU at Amargarh(INDIGRID), R-Y phase to phase fault is observed with fault clearing time of 120 ms. v)As per SCADA, generation loss of approx. 455 MW is observed at Salal HEP.	i)220 KV Salal(NH)-Jammu(PDD) (PG) Ckt-1 ii)220 KV Salal(NH)-Jammu(PDD) (PG) Ckt-2 iii)220 KV Kishenpur(PG)-Salal(NH) (PG) Ckt-1 iv)220 KV Kishenpur(PG)-Salal(NH) (PG) Ckt-2 v)220 KV Kishenpur(PG)-Salal(NH) (PG) Ckt-3 vi)220 KV Kishenpur(PG)-Salal(NH) (PG) Ckt-4 vii)115 MW Salal HPS - UNIT 1 viii)115 MW Salal HPS - UNIT 2 ix)115 MW Salal HPS - UNIT 4 x)115 MW Salal HPS - UNIT 6

Details of Grid Events during the Month of April 2025 in Northern Region

Sl No.	Category of Grid Event (GI 1or GI 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)		
14	GI-1	Himachal Prades	16-04-2025 21:18	16-04-2025 23:47	02:29	52	0	0.102	0.000	50950	64771	i)During antecedent condition, the following elements were connected to 220KV Bus 2 at Pong : 220 KV JESSORE(HP)-PONG(BB) (PG) CKT-1, 220 KV JALANDHAR-PONG (BB) CKT-2, 220 KV PONG(BB)-DASUYA(PS) (BBMB) CKT-2 and Unit 6. 66MW Unit-1, 5 & 6 at Pong HEP were generating approx. 52MW respectively (as per SCADA). 66MW Unit-2,3 & 4 at Pong HEP were not in service. ii)As reported, at 21:18 hrs, Bus-bar protection operated at 220kV Bus-2 at Pong(BBMB) on account of severe thunderstorm. iii)Due to 220KV Bus-Bar 2 operation at Pong, all the above-mentioned elements tripped and Bus-2 became dead (exact reason of Bus Bar protection needs to be shared) iv)As per PMU at Jalandhar(PG), R-N phase to earth fault was observed with fault clearing time of 120ms. v)As per SCADA, generation loss of approx. 52 MW at Pong HEP (BB) is observed.	i)220 KV JESSORE(HP)-PONG(BB) (PG) CKT-1 ii)220KV BUS 2 AT PONG(BB) iii)220 KV JALANDHAR-PONG (BB) CKT-2 iv)220 KV PONG(BB)-DASUYA(PS) (BBMB) CKT-2 v)220 KV PONG(BB)-DASUYA(PS) (BBMB) CKT-1 vi)66MW Unit-6 at Pong(BB)
15	GD-1	Himachal Prades	16-04-2025 21:28	16-04-2025 22:24	00:56	180	0	0.352	0.000	51097	64539	i)During antecedent condition, 220kV Jessore(HP)-Pong(BB) (PG) Ckt and 220kV Jessore(HP)-RSDPH Ckt were not in service. 60 MW Bairasiul HPS - UNIT 1, 2 and 3 were generating 60 MW each (as per SCADA). ii)As reported, at 21:28 hrs, 220 KV Bairasiul(NH)-Pong(BB) (PG) Ckt tripped on R-N phase to ground fault with fault distance of 79km from Bairasiul end due to inclement weather conditions. iii)Due to tripping of 220 KV Bairasiul(NH)-Pong(BB) (PG) Ckt and with 220kV Jessore(HP)-Pong(BB) (PG) Ckt and 220kV Jessore(HP)-RSDPH Ckt already not in service, 60 MW Bairasiul HPS - UNIT 1, 2 and 3 tripped on over-speeding due to loss of evacuation path and complete blackout occurred at 220kV Bairasiul(NH) S/s. iv)Further at 22:06 hrs, CBs of 220 KV Bairasiul(NH)-Jessore(HP) (PG) Ckt were manually opened (no power flow). v)As per PMU at Pong(BB), two consecutive R-N phase to earth faults were observed with fault clearing time of 80ms and 400ms (delayed) respectively. vi)As per SCADA, generation loss of approx. 180 MW at Bairasiul HEP (NH) is observed.	i)220 KV Bairasiul(NH)-Pong(BB) (PG) Ckt ii)60 MW Bairasiul HPS - UNIT 1 iii)60 MW Bairasiul HPS - UNIT 2 iv)60 MW Bairasiul HPS - UNIT 3
16	GD-1	Haryana	17-04-2025 13:59	17-04-2025 15:13	01:14	0	815	0.000	1.524	60558	53466	i)400/220KV Gurgaon(PG) and 220/66/33KV Gurgaon sec72 has double main bus system in 220KV side. 220kV Sec72 Gurgaon(HR) has source from 400/220kV Gurgaon(PG) station through four 220kV feeders. 220kV Gurgaon(PG)-Sec72 Gurgaon ckt-4 was under shutdown since 02.12.2024. ii)As reported, at 13:59 hrs, Y-B fault occurred on 220 kV Sec72 Gurgaon –Sec52 Gurgaon (HR) line. Fault occurred due to fire incident due to blast in HCG (Haryana City Gas) pipeline under the line(tower no 45-46), leading to melting of Y & B ph conductor. At the same time B-ph CT of 220 kV Sec72 Gurgaon –Sec52 Gurgaon (HR) line at Sec72 Gurgaon(HR) end also got damaged (blast). iii)As per PMU at Gurgaon(PG), B-N phase to earth fault converted into Y-B fault with delayed clearance of ~1800msec is observed. iv)On this fault, distance protection as well as back up Dir. E/F O/C protection at Sec72 Gurgaon(HR) end didn't operate. v)Fault cleared with the tripping of all four 400/220kV ICTs (2*315 + 2*500MVA) at Gurgaon(PG) on back up overcurrent protection operation. 220kV Gurgaon(PG)-Gurgaon72 ckt-3 also tripped from Gurgaon(PG) end on overcurrent protection. vi)With the tripping of all four ICTs at Gurgaon(PG), supply to 220kV Sec72 Gurgaon(HR) got lost. vii)As per SCADA, change in demand of approx. ~815MW in Haryana control area is observed. viii)400/220kV ICTs at Guragon(PG) restored back between 15:13 hrs- 15:50 hrs and supply to Sec72 Gurgaon(HR) restored.	i)220 KV Sec 72 – Sec52 (HVPNL) ii)400/220kV 315 MVA ICT 1 at Gurgaon(PG) iii)400/220kV 315 MVA ICT 2 at Gurgaon(PG) iv)400/220kV 500 MVA ICT 3 at Gurgaon(PG) v)400/220kV 500 MVA ICT 4 at Gurgaon(PG) vi)220 KV Gurgaon(PG)-GurgaonSec72(HV)(HVPNL)-3
17	GI-1	Rajasthan	18-04-2025 12:51	18-04-2025 20:25	07:34	865	0	1.441	0.000	60036	53768	i)400/220kV Akal(RS) has one and half breaker scheme at 400kV level and double main and transfer bus scheme at 220kV level. ii)During antecedent condition, 220 Akal-Lala and 220 Akal-Suzlon ckt were carrying 55MW and 18MW of load respectively. iii)As reported, at 12:51 hrs, 220KV Akal-Lala line tripped due to R phase fault. Z-1 distance protection operated and fault current was 25.9KA. Fault occurred due to damage of R-ph wavetrap at Akal end. iv)Consequently, at the same time 220 Akal-Suzlon ckt also tripped from Suzlon end only. Further details are still awaited. v)During this event, a dip in Rajasthan wind generation of approx. 865 MW is observed. Appx. 550MW recovered completely within 10 minutes. (As per SCADA). As informed by SLDC Rajasthan, 213MW loss in Rajasthan wind generation occurred. vi)As per PMU, R-N phase to earth-fault was observed with fault clearance time of of 120msec .	i)220 Akal-Lala(RS) line ii)220 Akal-Suzlon(RS) line
18	GI-1	Uttar Pradesh	21-04-2025 14:06	21-04-2025 15:01	00:55	0	211	0.000	0.372	61201	56777	i)400/220/132kV Jaunpur(UP) has one and half breaker scheme in 400KV and double main and transfer scheme in 220KV. ii)During antecedent condition, 400/220 KV 315 MVA ICT 1 and 220/132 kV 160 MVA ICT-II JAUNPUR (UP) were carrying 173MW and 92MW of load respectively. 400/220 KV 315 MVA ICT 2 and ICT 3 were out of service. iii)As reported, at 14:06 hrs, 400/220 KV 315 MVA ICT 1 tripped due to B-N phase to earth fault. B phase IDMT protection operated. iv)Consequently, at the same time 220kV BUS 2 at Jaunpur, 220kV Bus Coupler, 220/132 kV 160 MVA ICT-II at Jaunpur (UP), also tripped (tripping details awaited). This led to the tripping of 132KV system in Jaunpur s/stn. v)During this event, change in demand of 211 MW was observed in SLDC UP control area as per SCADA. vi)As per PMU, B-N phase to earth-fault was observed and fault clearance time of upto 120msec observed.	i)400/220 KV 315 MVA ICT 1 AT JAUNPUR (UP) ii)220/132 kV 160 MVA ICT-II at Jaunpur (UP) iii)220kV Bus Coupler iv)220kV BUS 2 at Jaunpur
19	GI-2	Uttar Pradesh	23-04-2025 12:45	23-04-2025 17:01	04:16	387	0	0.653	0.000	59262	52773	i)765/400/132KV Ghatampur(UP) has one and half breaker scheme in 765KV, 400KV and double main bus scheme in 220KV. It comprises of 3 X 660MW of generation. ii)During antecedent condition, 660MW GHATAMPUR TPS - UNIT 1 was generating 387MW and Unit 2 and Unit 3 are yet to be commissioned. 765 KV RAMPUR_PRSTL - GHATAMPUR_TPS (UP) CKT-1 was carrying 387MW of load. iii)As reported, at 12:45 hrs, 765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1 tripped due to R-N phase to earth fault. Z-1 distance protection operated and fault current was Ir = 1.92KA. iv)At the same time 660MW GHATAMPUR TPS - UNIT 1, kept feeding Y and B phases. As a result of current flow in the neural phase, REF of GT1 at HV side operated. This led to tripping of Unit 1. v)Inspite of A/R operation in 765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1, the line tripped due fault sensed from Rampur end during reclaim time. As a result 765KV Bus 1 & 2 along with 765KV Bus Reactor, and 330MVAR Line Reactor of 765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1 at Ghatampur tripped. vi)During this event, change in generation of 387 MW was observed in SLDC UP control area as per SCADA. vii)As per PMU, R-N phase to earth-fault was observed and fault clearance time of upto 120msec observed.	i)765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1 ii)765 KV Ghatampur_TPS(UP) - Bus 2 iii)765 KV Ghatampur_TPS(UP) - Bus 1 iv)330 MVAR Bus Reactor No 1 at 765 KV Ghatampur_TPS(UP) v)330MVAR Line Reactor of 765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1 at Ghatampur vi)660MW GHATAMPUR TPS - UNIT 1

Details of Grid Events during the Month of April 2025 in Northern 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 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)		
20	GI-2	Uttar Pradesh	24-04-2025 11:45	24-04-2025 16:55	05:10	380	0	0.633	0.000	59998	55495	i)765/400/132KV Ghatampur(UP) has one and half breaker scheme in 765KV, 400KV and double main bus scheme in 220KV. It comprises of 3 X 660MW of generation. ii)During antecedent condition, 660MW GHATAMPUR TPS - UNIT 1 was generating 387MW and Unit 2 and Unit 3 are yet to be commissioned. 765 KV RAMPUR_PRSTL - GHATAMPUR_TPS (UP) CKT-1 was carrying 387MW of load. iii)As reported, at 12:45 hrs, 765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1 tripped due to R-N phase to earth fault. Z-1 distance protection operated and fault current was Ir = 1.92KA. iv)At the same time 660MW GHATAMPUR TPS - UNIT 1, kept feeding Y and B phases. As a result of current flow in the neural phase, EF of GT1 at HV side operated. v)Inspite of A/R operation in 765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1, the line tripped due fault sensed from Rampur end during reclaim time. As a result 765KV Bus 1 & 2 along with 330MVAR Line Reactor of 765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1 at Ghatampur tripped. vi)As per SCADA, generation loss of approx. 317 MW at Ghatampur TPS. However, Generation loss was 380MW as per UP SLDC. vii)As per PMU, R-N phase to earth-fault was observed and fault clearance time of upto 120msec observed.	i)765 KV RAMPUR_PRSTL -GHATAMPUR_TPS (UP) CKT-1 ii)765 KV Ghatampur_TPS(UP) - Bus 2 iii)765 KV Ghatampur_TPS(UP) - Bus 1 iv)330MVAR Line Reactor of 765 KV RAMPUR_PRSTL - GHATAMPUR_TPS (UP) CKT-1 at Ghatampur v)660MW GHATAMPUR TPS - UNIT 1
21	GI-1	Haryana	25-04-2025 16:52	25-04-2025 18:26	01:34	0	109	0.000	0.182	59062	59932	i)220KV Charkhi_Dadri(HR) has double main scheme in 220KV. ii)During antecedent condition, 220 KV BHIWANI-CHARKHI DADRI (BB) Ckt 1, 2 , 3, 4, were carrying 50MW, 51MW, 52MW and 49MW respectively. iii)As reported, at 16:49 hrs, 220 KV BALLABHGARH-CHARKHI DADRI (BB) CKT-1 tripped due to R-N phase to earth fault. Z-2 distance protection operated and Fault Location – 129.3KM from Ballabhgarh end. iv)At 16:52 hrs, 220 KV PANIPAT-CHARKHI DADRI (BB) CKT-1 tripped due to R-N fault. Z-2 distance protection operated, the fault current is 1.72KA and fault location is 110KM from Panipat(BBMB) s/stn. v)At 16:53 hrs, 220 KV CHARKHI DADRI-SAMAYPUR (BB) CKT-1 tripped due to R-N fault. Z-1 protection operated, fault current = 4.6KA and the fault distance was 116KM from Samaypur end. vi)At 16:55 hrs, 220 KV BHIWANI-CHARKHI DADRI (BB) CKT-1, Ckt-2, Ckt-3 and Ckt-4 were hand tripped due to fire at Charkhi Dadri s/stn. Exact cause of fire in s/stn needs to be shared. vii)During this event, change in demand of 109 MW was observed in SLDC Haryana control area as per SCADA. viii)As per PMU, R-N phase to earth-fault was observed and delayed fault clearance time of upto 360msec observed.	i)220 KV BHIWANI-CHARKHI DADRI (BB) CKT-1 ii)220 KV BHIWANI-CHARKHI DADRI (BB) CKT-2 iii)220 KV BHIWANI-CHARKHI DADRI (BB) CKT-3 iv)220 KV BHIWANI-CHARKHI DADRI (BB) CKT-4 v)220 KV CHARKHI DADRI-SAMAYPUR (BB) CKT-1 vi)220 KV BALLABHGARH-CHARKHI DADRI (BB) CKT-1 vii)220 KV PANIPAT-CHARKHI DADRI (BB) CKT-1
22	GD-1	Rajasthan	26-04-2025 17:06	26-04-2025 20:30	03:24	0	116	0.000	0.199	57010	58250	i)220/132kV Lalsote(RS) has double main bus scheme at both 220KV and 132KV voltage level. ii)During antecedent condition, 220 KV Lalsote(RS)-Dausa(RS) (PG) Ckt-1 and 220 KV Anta(NT)-Lalsote(RS) (PG) Ckt-1 were carrying 30MW and 49MW of load respectively. iii)As reported, at 17:06 hrs, 220 KV Lalsote(RS)-Dausa(RS) (PG) Ckt-1 tripped due to B-N phase to earth fault. Z-2 distance protection operated and fault current was 4.95KA. It is interesting to note that Z-4 protection for the same line operated after Z-2 distance protection operated. iv)Consequently, at the same time 220 KV Anta(NT)-Lalsote(RS) (PG) Ckt-1 also tripped due B-N phase to earth fault only. The fault current observed was 6.84KA. v)Following these events due to loss of both transmission line in 220KV side, complete blackout of 220/132KV Lalsote s/stn occurred. vi)During this event, change in demand of 116 MW was observed in Rajasthan control area as per SCADA. vii)As per PMU, B-N phase to earth-fault was observed with unsuccessful A/R and delayed fault clearance time of upto 360msec observed.	i)220 KV Lalsote(RS)-Dausa(RS) (PG) Ckt-1 ii)220 KV Anta(NT)-Lalsote(RS) (PG) Ckt-1
23	GD-1	Punjab	28-04-2025 19:08	28-04-2025 22:16	03:08	0	368	0.000	0.568	55942	64737	i)400/220kV Ropar has one and half breaker scheme while 220KV has double main and transfer bus scheme. ii)As reported, at 19:08 hrs, 400KV Bus 2 tripped due to B-phase CVT damage. Following this 400/220 KV 500 MVA ICT 1 AT ROPAR(PSTCL), 400/220 KV 500 MVA ICT 2 AT ROPAR(PSTCL) and 404 MAIN BAY - 400 KV KOLDAM(NT)-ROPAR(PSTCL) (PKTCL) CKT-1 (PSTCL) AT 400 KV ROPAR(PSTCL) tripped. iii)As per DR of 400KV Ropar Bus-2 and 500MVA ICT-1 at Ropar, differential protection operated. However, the DR is not time synched iv)Following these events , 400/220 KV 500 MVA ICT 2 AT ROPAR(PSTCL) also tripped. As a result both 400KV and 220KV systems tripped in Ropar sub-station and blackout occurred. v)During this event, Punjab SLDC reported a load loss of 368MW. vi)As per PMU, multiple B-N phase to earth-fault was observed and fault clearance time of upto 120msec observed.	i)400 KV ROPAR(PSTCL) - BUS 2 ii)400/220 KV 500 MVA ICT 1 AT ROPAR(PSTCL) iii)400/220 KV 500 MVA ICT 2 AT ROPAR(PSTCL) iv)404 MAIN BAY - 400 KV KOLDAM(NT)-ROPAR(PSTCL) (PKTCL) CKT-1 (PSTCL) AT 400 KV ROPAR(PSTCL)
24	GD-1	Rajasthan	28-04-2025 15:11	28-04-2025 17:34	02:23	263	0	0.417	0.000	63009	60970	i)Generation of GEPL(GrianPSS)(IP) station (which is summation of generation of AAPL(IP), GEPL(IP) and One volt(IP)) evacuates through 220 KV GrianPSS_BIK2(AMPLUS)-Bikaner_2 (PBTSL) (GRIAN ENERGY PRIVATE LIMITED) Ckt which is further connected to 3 RE plants at 33kV level through 3 no.s of 220/33kV 100MVA ICTs. 220/33kV 100MVA ICT-1, 2 & 3 are connected to AAPL(IP), GEPL(IP) and One volt(IP) respectively at 33kV level. During antecedent condition, 220 KV GEPL(GrianPSS)(IP) was generating total approx. 263 MW (as per PMU). ii)As reported, at 15:11hrs, 220 KV GrianPSS_BIK2(AMPLUS)-Bikaner_2 (PBTSL) (GRIAN ENERGY PRIVATE LIMITED) Ckt tripped on B-N phase to earth fault (exact nature, location and reason of fault yet to be received). iii)Due to tripping of 220 KV GrianPSS_BIK2(AMPLUS)-Bikaner_2 (PBTSL) (GRIAN ENERGY PRIVATE LIMITED) Ckt, AAPL(IP), GEPL(IP) and One volt(IP) ,i.e., 220kV GEPL(GrianPSS)(IP) S/s lost its connectivity from grid and blackout occurred at 220KV GEPL(GrianPSS)(IP) S/s. iv)As per PMU at Bikaner2(PG), B-N phase to phase fault with unsuccesful A/R (voltage dipped upto 0.646 p.u.) is observed with fault clearing time of 80ms. v)As per PMU at GEPL(GrianPSS)(IP), solar generation loss of approx. 263 MW was observed at 220 KV GEPL(GrianPSS)(IP). vi)As per SCADA, change in total NR solar generation of approx. 284 MW was observed.	i)220 KV GrianPSS_BIK2(AMPLUS)-Bikaner_2 (PBTSL) (GRIAN ENERGY PRIVATE LIMITED) Ckt ii)220/33 kV 100 MVA ICT 1 at GrianPSS_BIK2_(AMPLUS) iii)220/33 kV 100 MVA ICT 2 at GrianPSS_BIK2_(AMPLUS) iv)220/33 kV 100 MVA ICT 3 at GrianPSS_BIK2_(AMPLUS)

Details of Grid Events during the Month of April 2025 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 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	WR	02-04-2025 05:12	02-04-2025 10:15	05:03	0	-	0.00%	-	70189	58942	At 08:14 Hrs / 01-04-2024, 400kV/33kV ICT-3 at Khavda PSS-10 tripped on Differential protection due to Y phase to B phase short circuit occurred while Charging of Solar Block from 33kV side. At the same time, 400 KV Khavda PS-1- Khavda PSS-10 tripped due to Stage-2 overvoltage protection as reported by M/s Adani. Due to loss of evacuation path S/S become dark. No generation loss reported due to the event.	1. 400 KV Khavda PS-1- Khavda PSS-10 2. 400kV/33kV ICT-3
2	GD-1	WR	03-04-2025 14:24	03-04-2025 18:11	03:47	367	-	0.47%	-	77510	69898	At 14:24 Hrs / 03-04-2025, 220 kV Bhuj-Gadhsisa tripped due on Y-N fault only from Ghadsisa end and at the same time 220kV Bhuj Naranpar S/C tripped on Y-B phase fault. During patrolling no abnormality was found. Generation loss of 200 MW at Gadhsisa and 167 MW at Naranpar occurred due to loss of evacuation path.	1. 220 kV Bhuj-Gadhsisa S/C 2. 220kV Bhuj Naranpar S/C
3	GD-1	WR	03-04-2025 18:02	03-04-2025 21:12	03:10	0	-	0.00%	-	74232	64309.63	At 18:00 Hrs / 03-04-2025, 765kV Tamnar Bus-1 tripped along with 765kV/400kV ICT-1,2 and 3 on bus bar protection operation. Further at 18:02 hrs /03-04-2025, 765kV Tamnar Bus-2 along with 400kV JPL-Tamnar ckt-2, 3 and 4 tripped on Bus bar protection operation. The above resulted in high loading of approximately 1500 MW on 765/400 kV Tamnar ICT-4 and 960 MW on 400kV-JPL-Tamnar-4. To control this high loading, immediate generation backing down of 300 MW and 113 MW was carried out at JPL and TRN thermal power stations. Simultaneously HVDC Raigarh-Pugulur flow to Southern Region was reduced to 2000 MW. The event reportedly occurred due to flash over in 703, 706, 708 and 413 bays which were under outage due to suspected bay element failure. No generation loss reported due to the event.	1. 765kV Tamnar Bus-1 alongwith765kV/400kV ICT-1,2 and 3 2. 765kV Tamnar Bus-2 along with 400kV JPL-Tamnar ckt-2, 3 and 4
4	GD-1	WR	07-04-2025 13:40	07-04-2025 14:35	00:55	352	-	0.45%	-	77827	69749	At 13:40 Hrs/ 07-04-2025 400/220 kV Jagdalpur ICT-2 tripped on R phase Differntial protection operation. Subsequently, 400/220 kV Jagdalpur ICT-1 got tripped on back up O/C protection operation which is suspected to be tripped due to inadvertent protection settings. The load of 220 kV Barsoor, 220 kV Nagarnar & 220 kV Narayanpur (220 kV Gurur- Narayanpur out under Power Regulation) were fed by 220 kV Gurur- Barsoor. 220 kV Gurur-Barsoor tripped due to Overload and resulted in load loss of 352 MW. As reported by SLDC Chattisgarh, 220 kV Jagdalpur, 220 kV Barsoor, 220kV Nagarnar & 220 kV Narayanpur S/Ss went into dark.	1 400/220 kV Jagdalpur ICT 2 2 400/220 kV Jagdalpur ICT 1 3 220kV Gurur Barsoor 4 220kV Jagdalpur Barsoor D/C 5 220kV Jagdalpur Nagarnar D/C 6 220kV Narayanpur Barsoor
5	GD-1	WR	10-04-2025 16:41	10-04-2025 17:46	01:05	152	-	0.18%	-	85221	73376	At 16:41 Hrs /10- 04-2025400 kV JP Bina - Bina (PG) and 400 kV JP Bina - Bina (MP) lines tripped on Bph-E fault. Prior to tripping, only JP Bina unit-2 was on bar. Due to loss of evacuation path, generation loss of 152 MW occurred.	1 400 kV JP Bina – Bina PG 2 400 kV JP Bina – Bina MP
6	GD-1	WR	19:13 / 11-04-2025	19:16 / 11-04-2025	00:03	704	-	0.88%	-	79805	70285	At 16:46 hrs / 11-04-2025 400kV Mahan-Bilaspur-1 tripped Yph-Bph fault. After taking attempt of test charging, at the same time 400kV Mahan-Bilaspur-2 tripped at 19:13 on Yph to earth fault. Due to loss of evacuation paths, generation loss of 704 MW occurred at Mahan Energen after both units got tripped.	1 400 kV Mahan Energen-Bilaspur 1 2 400 kV Mahan Energen-Bilaspur 2 3 600 MW Mahan Energen Units 1&2 4 400kV Mahan Energen bus-1 5 400kV Mahan Energen bus-2
7	GD-1	WR	13:48 / 12-04-2025	14:28 / 12-04-2025	00:40	0	-	0.00%	-	75560	70534	At 13:48 Hrs /12-04-2025, 220kV Seoni(MP)-Seoni(PG)-1&2 tripped from MP end along with 220/132kV ICT-1, 3 due to LBB operation due to suspected fault in Ckt-1 not clearing in time. 220/132kV ICT-2 was under planned outage. 132kV Seoni (MP) substation remained charged by other 132kV circuits. No load loss reported.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhsisa
8	GI-2	WR	10:43 / 12-04-2025	11:44 / 12-04-2025	01:01	0	-	0.00%	-	77576	72998	At 10:43 Hrs/ 12-04-2025, Bus Bar protection operated at 400 kV Vav SS due to fault in 400kV-Vav-Navsari ckt, which led to tripping of 400 kV Vav-Jhanor line, 400 kV Vav-Navsari line, 400 kV Vav-Ukai line, 400 kV Vav-Kosamba and 400/220 kV ICT-2 & 3. 400 kV Vav Bus-1 and 400/220 kV ICT-1 were already under forced outage. Due to outage of Bus-2, 400kV Vav GIS become dead. No load loss occurred and 220kV side remained intact.	1 400kV Vav GIS BUS-2 2 400kV Vav-Gandhar line 3 400kV Vav-Navsari line 4 400kV Vav-Ukai line 5 400 kV Vav-Kosamba 6 400/220 kV Vav-ICT-2 7 400/220 kV Vav-ICT-3
9	GD-1	WR	16:10 / 13-04-2025	17:04 / 13-04-2025	00:54	15	-	0.02%	-	77942	68348	At 16:10 Hrs /13-04-2025, 220kV Shajapur Unit-8(Taletuttayi) - Pachora ckt tripped on Rph-E fault. Generation loss of 15 MW occurred at 220kV Shajapur Unit-8(Taletuttayi) due to loss of evaculation path.	1. 220 kV Shajapur Unit-8 (Taletuttayi) - Pachora
10	GD-1	WR	14:32 / 14-04-2025	21:09 / 14-04-2025	06:37	45	-	0.06%	-	81627	72919	At 14:32 hrs /14-04-2025, 400 KV Khavda PSS-5- Khavda PS-1 single circuit tripped on Y-Phase 87L differential protection operation as due to heavy wind the OPGW cable displaced and touched the conductor. Generation loss of 87 MW occurred at 400 kV Khavda PSS-5 due to loss of evaculation path.	1 400 KV Khavda PSS-5- Khavda PS-1 2 400KV Khavda PSS5 Bus 1 3 400KV Khavda PSS5 Bus 2 4 400/33 KV Khavda PSS-5 ICT-1 5 400/33 KV Khavda PSS-5 ICT-2

Details of Grid Events during the Month of April 2025 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 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)		
11	GD-1	WR	18:52 / 15-04-2025	19:13 / 15-04-2025	00:21	227	-	0.28%	-	81239	70047	At 18:52 hrs /15-04-2025, During testing of Unit #1 generator(Unit was under forced outage), Busbar protection operated in 400 KV switchyard and all breakers of switchyard tripped at 400 KV JP Bina. Generation loss of 227 MW occurred at 400 KV JP Bina due to loss of evaculation path.	1 400 KV JP Bina- Bina (PG) 2 400 KV JP Bina- Bina (MP) 3 Unit 2 (250 MW)
12	GD-1	WR	07:41 / 18-04-2025	10:19 / 18-04-2025	02:38	50	-	0.06%	-	79535	67270	At 07:41Hrs / 18-04-2025, 220kV Khandwa-Bhawsingura(Masaya Solar) line tripped due to Bus Bar protection operation of 220kV Bus-2 at Bhawsinghpura. Generation loss of 50 MW occurred at 220 KV Bhawsingpura and 220 KV Kanwani S/S due to loss of evaculation path.	1 220kV Khandwa-Bhawsinghpura ckt 2 220/33kV ICT at Bhawsinghpura 3 220kV Bhawsinghpura-Kanwani ckt 4 220/33kV ICT at Kanwani
13	GD-1	WR	15:20 / 18-04-2024	16:23 / 18-04-2024	01:03	550	-	0.63%	-	87829.84	76775.47	At 15:20 hrs /18-04-2025, 400kV-ACBIL-Bilaspur & 400kV-MCCPL-Bilaspur lines tripped on B-E fault, Z-1 protection operation. Total generation loss of 550 MW due to loss of evacuation path.	1. 400kV-ACBIL-Bilaspur 2. 400kV-MCCPL-Bilaspur
14	GD-1	WR	21:49 / 23-04-2024	22:44 / 23-04-2024	00:55	-	40634.00%	-	0.60%	83898	68162	At 21:49 Hrs/23.04.2025, 220kV Bus-I at 400/220 kV Jejuri (MH) S/S tripped on bus bar protecion operation due to fire on Y-PH CT of 220kV Kondhwa-Jejuri line. All connected Feeders and 400/220 kV ICT-1,3 connected to 220kV Main bus-I tripped. Load loss of 406.34 MW reported by MSLDC due to operation of LTS stage-I,II,III at Jejuri.	1 400/220 kV Jejuri ICT-1 2 400/220 kV Jejuri ICT-3 3 220 kV Jejuri Bus-1 4 220 kV Jejuri Bus Coupler 5 220 kV Jejuri- Lonand-1 6 220 kV Jejuri- Jejuri-1 7 220 kV Jejuri- Phursungi-1 8 220 kV Jejuri- Kondhwa
15	GD-1	WR	15:05 / 19-04-2024	01:52 / 20-04-2024	10:47	160	-	0.19%	-	83351	76436	At 15:05 Hrs/ 19-04-2025, 220 kV Baranda-Bhuj S/C tripped on R-E fault. Generation loss of around 160 MW occurred due to loss of evacuation path.	220 kV Baranda-Bhuj S/C
16	GD-1	WR	14:40 / 27-04-2024	18:57 / 27-04-2024	04:17	50	-	0.06%	-	80208	71128	At 14:40 Hrs, 220 kV Barsaita Desh- Rewa 1 & 2 tripped on differential protection on R phase fault. Stormy weather and lightening reported during the event. S/S got dead and generation loss of 50 MW was reported due to loss of evacuation path.	220 kV Barsaita Desh Rewa ckt 1 220 kV Barsaita Desh Rewa ckt 2 220 kV Barsaita Desh Bus 1 220 kV Barsaita Desh Bus 2 220/33 kV Barsaita Desh ICT 1 220/33 kV Barsaita Desh ICT 2 220/33 kV Barsaita Desh ICT 3
17	GD-1	WR	01:00 / 28-04-2024	03:29 / 28-04-2024	02:29	600	-	0.75%	-	80400	66580	At 01:00 Hrs/ 28.04.2025, 400 kV RGPPL S/S got dead due to Bus bar protection operation on 400 kV Bus-1 due to failure of R-phase CVT of GT 2A. 400 kV Bus-2 also got decoupled and generation loss of 600 MW was reported due to blackout. Also delayed clearance of fault (in 320 ms) was observed from PMU voltage plot.	1 400 kV RGPPL GT-3A 2 400 kV RGPPL GT-3B 3 400 kV RGPPL ST-3X 4 400 kV RGPPL Koyna-1 5 400 kV RGPPL Koyna-2 6 400 kV RGPPL Nagothane-1 7 400 kV RGPPL Nagothane-2 8 400 kV RGPPL SST-1 9 400 kV RGPPL SST-2 10 400kV RGPPL Bus-1 11 400kV RGPPL Bus-2
18	GD-1	WR	17:41 / 30-04-2024	19:25 / 30-04-2024	01:44	280	-	0.31%	-	88989	70961	At 17:41 Hrs/ 30-04-2025, 220 kV Pritamnagar- Indore tripped on B-E fault & resulted in blackout of 220 kV Pritamnagar substation due to loss of evacuation path. Generation loss of 280 MW occurred due to the event.	220 kV Pritamnagar- Indore

Details of Grid Events during the Month of April 2025 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 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-I	PVUNL	05.04.2025 14:45	05.04.2025 15:33	00:48	0	4	0.000	0.000	25441	23775	At 14:45 Hrs on 05.04.2025, 400KV Tenughat-PVUNL tripped on phase to ground fault. At present PVUNL is drawing start up power radially through this line. As the line tripped, 400 kV PVUNL S/s became dead. Around 4 MW load loss occurred. 400KV-TENUGHAT-PVUNL-1 line charged successfully at 15:33 Hrs.	400 KV Tenughat-PVUNL-1
2	GD-I	FATUHA	09.04.2025 16:20	09.04.2025 16:45	00:25	0	100	0.000	0.004	28677	26197	At 16:05 Hrs 132 KV Fatuha-Katra tripped on B_N fault. While charging attempt of said line at 16:20 Hrs, line didn't hold and 132 KV Y-ph and B-ph CT at Fatuha GSS got brust and fire was observed in control cable of 220/132kV ICTs 1 & 2 and 220/132kV ICTs at Fatuha got tripped. Further all emanating lines from Fatuha were hand tripped for safety purpose. 220/132kV Fatuha S/s became dead. Total 100 MW load loss occurred in Fatuha and Katara areas. Power was restored at 16:45 Hrs from 220 KV Fatuha Sipara line.	220 KV Fatuha Sipara 220 KV Patna Fatuha 220 KV Biharshariff Fatuha -1 220 KV Biharshariff Fatuha -2 220 KV Fatuha Bus 1 &2 220 / 132 kV ICT 1,2,3,4 & 5 at Fatuha
3	GD-I	PVUNL	10.04.2025 15:45	10.04.2025 18:45	03:00	0	4	0.000	0.000	24088	21147	At 15:45 Hrs on 10.04.2025, 400KV Tenughat-PVUNL tripped on phase to ground fault. At present PVUNL is drawing start up power radially through this line. As the line tripped, 400 kV PVUNL S/s became dead. Around 4 MW load loss occurred. 400KV-TENUGHAT-PVUNL-1 line charged successfully at 18:45 Hrs.	400 KV Tenughat-PVUNL-1
4	GD-I	HATIA	15.04.2025 18:36	15.04.2025 19:25	00:50	0	150	0.000	0.006	32746	24100	Prior to the disturbance 220kV Hatia-Ranchi #2 was under plan shutdown. At 18:36 Hrs R-Earth fault occurred in 220kV-Hatia- Lohardaga #2(220kV Hatia- Lohardaga D/C kept idle charged from Hatia end) which was sensed by Hatia in reverse zone-4 instead of forward zone-1 due to reverse polarity of CT at Hatia end. All emanating lines from Hatia tripped in Z-2 protection from remote end . 220kV Hatia S/s became dead and total 130 MW load loss occurred at Hatia. Power was extended at 19:25 Hrs through 220 kV Ranchi- Patratu New D/C.	220 kV Hatia– Ranchi (PG) – II 220 kV Hatia– Ranchi (PG) – III 220 kV Hatia– Patratu – I 220 kV Hatia– Patratu – II 220 kV Hatia– Lohardaga – I 220 kV Hatia– Lohardaga – II 220 kV Hatia– Smart City s/c

Details of Grid Events during the Month of April 2025 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 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)		
5	GD-I	BEGUSARAI	20.04.2025 10:00	20.04.2025 10:30	00:30	220	170	0.010	0.007	22948	23066	On 20/04/25 at 10:00 Hrs, due to bursting of 132 KV Y phase PT at Begusarai, a three phase Bus fault occured at Begusarai 132 KV substation , While clearing the fault R phase CB of ICT got stuck leading to fault clearing in zone-3 by remote ends of 220 KV lines from Begusarai . At this time, Barauni 220 KV bus 2 along with unit 8 and Mokama ckt 2 and Hazipur ckt 2 also tripped on LBB operation .Above event led to load loss of 170 MW at Begusarai and generation loss of 220 MW at Barauni.	220/132 KV 100 MVA ICT 1 at Begusarai 220/132 KV 100 MVA ICT 2 at Begusarai 220/132 KV 100 MVA ICT 3 at Begusarai 220 KV Begusarai-BTPS 1 220 KV Begusarai-Saharsa PG 2 220 KV Begusarai-BTPS 2 220 KV Begusarai-Samastipur 1 220 KV Bus 2 at Barauni 220 KV Barauni-Hajipur 2 220 KV Barauni-Mokama 2 Unit 8 at Barauni
6	GD-I	BARAUNI	20.04.2025 12:43	20.04.2025 13:30	00:47	199	257	0.009	0.010	21499	24663	After disturbance at Begusarai at 10:00 Hrs on 20.04.2025, 220kV main bus 2 along with unit#8 and Mokama ckt#2 and Hazipur ckt#2 at Barauni was under outage and another bus with unit 9 ,Hazipur ckt 1 and Mokama ckt 1 were in service,At 12:43 hrs fault occurred in 220 KV Barauni Hazipur ckt 1,which led to island formation of Unit 9 with Mokama loads through Mokama ckt 1.Ultimately island collapsed due to load generation imbalance leading to 257 MW load loss and 199 MW generation loss.	220 KV Barauni-Hajipur 1 220 KV Barauni-Mokama 1 Unit 9 at Barauni
7	GD-I	BODHGAYA	21.04.2025 19:42	21.04.2025 20:06	00:24	0	310	0.000	0.011	31730	28157	Prior to the disturbance, 220kV Gaya – Bodhgaya D/C tripped at 19:30 Hrs from Bodhgaya end only on over current protection (As per SCADA 202 MW power flow in each circuit). At 19:42 Hrs 220 KV Khizersarai-Bodhgaya D/C tripped from Bodhgaya end due to snapping of R-phase conductor. 220kV Bodhgaya S/s became dead. Around 310 MW load loss occurred at Bodhgaya end. Power was extended through Gaya-Bodhgaya D/C at 20:06 Hrs.	220kV Gaya – Bodhgaya D/C 220 KV Khizersarai-Bodhgaya D/C
8	GD-I	CHATRA	27.04.2025 19:08	27.04.2025 21:42	02:34	0	20	0.000	0.001	31693	25077	220kV Chatra S/s connected through S/c from Daltongunj & Latehar S/s. At 19:08 Hrs, 220 kV Daltongunj- Chatra line tripped from Daltonganj end in Z-3 distance protaction and simultaneously, 220 kV Latehar–Chatra line also tripped from Latehar end in Z-3 distance protection. 220kV Chatra S/s became dead. Total load loss of 20 MW occurred at Chatra. Power was extended through 220kV Daltongunj-Chatra at 21:42 Hrs.	220kV Latehar-Chatra S/C 220kV Daltongunj-Chatra S/C
9	GD-I	DIKCHU	30.04.2025 20:34	30.04.2025 21:26	00:52	96	0	0.003	0.000	32746	24100	At 20:34 Hrs, 400 kV Rangpo-Dikchu tripped on Y-Earth fault in Z-2 protection from Dikchu end only. Due to loss of evacuation path (Dikchu is connected radially through Rangpo), both units of Dikchu tripped. Total generation loss of 96 MW occurred at Dikchu. 400 kV Rangpo-Dikchu charged at 21:26 Hrs. Dikchu Unit#1 & 2 synchronized at 21:34 Hrs and 21:49 Hrs respectively.	400 kV Rangpo-Dikchu Dikchu Unit-1 Dikchu Unit-2

Details of Grid Events during the Month of April 2025 in Southern Region

Sl No.	Category of Grid Event (GI 1or GI 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	TAMILNADU	01-04-2025 11:59	01-04-2025 13:14	01:15	0	0	0.00%	0.00%	51963.02	65875.48	Complete Outage of 400kV/110kV Udangudi SS: During antecedent conditions, 400kV Ottapidaram Udangudi line-1 was under shutdown. As per the reports submitted, while carrying out precommissioning testing on 400kV Udangudi Ottapidaram Line-1, 400kV Ottapidaram Udangudi line-1 line-2 got tripped at Ottapidaram end. Tripping of the only connected line led to complete outage of 400kV/110kV Udangudi SS.	400KV-OTTAPIDARAM-UDANGUDI-2
2	GD - 1	KARNATAKA	04-04-2025 10:15	04-04-2025 10:39	00:24	0	174	0.00%	0.31%	45727.7	56661.41	Complete Outage of 220kV/66kV Khodays SS and 220kV/66kV Subramanyapura SS of KPTCL: 220kV/66kV Khodays and 220kV/66kV Subramanyapura SS were being radially fed through 220kV Somanahally Khodays and 220kV Subramanyapura Penya. As per the reports submitted, the triggering incident was R-N fault in 220kV Somanahally Khodays line at a distance of 3km from Somanahally end at 10:16hrs due to jumper cut. At Somanahalli end, zone-1 protection operated and the line tripped. At Khodays end, zone-2 protection operated and the line tripped with a delay of approx 320ms. The line tripped at both ends and A/R did not operate. At 12:46hrs, a YB-n fault was observed in 220kV Subramanyapura Penya line due to entry of tree branches into arc zone of the line. At Subramanyapura end, the fault was sensed in zone-1 and the line tripped. Tripping of both lines led to complete outage of 220kV/66kV Khodays and 220kV/66kV Subramanyapura SS of KPTCL.	220KV-SOMANAHALLI-KHODAYS-1, 220KV-SUBRAMANYAPURA-PEENYA-1
3	GD - 1	ANDHRA PRADES	04-04-2025 11:38	04-04-2025 13:13	01:35	122	0	0.26%	0.00%	47773.46	57639.75	Complete Outage of 400/33 kV AMGEPL SOLAR: 400kV AMGEPL-Solar is connected to 400kV GREENKO with only one 400kV line. In the antecedent condition 400/33kV ICT-2 at AMGEPL SOLAR was tripped on 04/04/2025 11:03 Hrs. During the charging of 400/33kV ICT-2 at AMGEPL due to the suspected inrush of the transformer, 400kV AMGEPL Solar-GREENKO line got tripped at GREENKO end due to DEF operation and DT was sent to remote end leading to tripping at AMGEPL Solar end also. Due to the tripping of the only connected line led to the complete outage of 400/33kV AMGEPL Solar.	400KV-GREENKO_CPSS-AMGEPL_SOLAR-1
4	GD - 1	KARNATAKA	08-04-2025 21:48	11-04-2025 02:11	52:23	58	0	0.13%	0.00%	44368.66	51752.34	Complete Outage of 220kV Vena_Gadag: As per the reports submitted, the triggering incident was YB-N fault in the line. At both ends, zone-1 protection operated and the line tripped. Tripping of the only connected line led to complete outage of 220kV Vena Generating Station.	Vena_GadagPS - 220KV, 220KV-GADAG_PSS-Vena_GadagPS-1
5	GD - 1	TAMILNADU	11-04-2025 23:38	11-04-2025 23:57	00:19	0	150	0.00%	0.30%	41877.29	49956.79	Complete Outage of 230kV/110kV Veerapuram SS of TANTRANSCO: During antecedent conditions, 230kV Veerapuram, SS was being radially fed through 230kV Veerapuram Kalivandapattu line and 110kV Veerapuram SP Koil line. As per the reports submitted, the triggering incident was B-phase jumper in 230kV Veerapuram Kalivandapattu line. At Veerapuram end, broken conductor alarm was observed. and DEF protection operated. Tripping of the 230kV Veerapuram Kalivandapattu line led to over loading and tripping of 110kV Veerapuram SP Koil line on over load. Tripping of both lines led to complete outage of 230kV/110kV Veerapuram SS.	230KV-KALVENDAPATTU-VEERAPURAM, VEERAPURAM - 230KV - Bus 2
6	GD - 1	ANDHRA PRADESH	14-04-2025 16:24	15-04-2025 03:36	11:12	38	0	0.09%	0.00%	41352	55046.49	Complete outage of AMGEPL SOLAR: As per the reports submitted, the triggering incident was B-N fault in the line . At both ends, the fault was sensed in differential protection. A/R operated but line tripped due to subsequent fault during A/R reclaim time. However, the DR of fault during relcaim time is not uploaded at both ends. Tripping of the only connected line led to complete outage of 220kV AMGEPL solar Station.	400KV-GREENKO_CPSS-AMGEPL_SOLAR-1
7	GD - 1	KARNATAKA	15-04-2025 14:42	15-04-2025 15:10	00:28	60	834	0.12%	1.41%	48044.39	59083.22	Complete Outage 2220kV/66kV Kanabargi SS, 220kV/66kV Belagavi SS, 220kV/66kV Indal SS, 220kV/66kV Aques SS, 220kV/66kV Kanagala SS, 220kV/110kV Chikodi SS, 220kV/66kV Mugalkod SS, 220kV/66kV Ghataprabha SS, 220kV/66kV Kudachi SS, 220kV/66kV Athani SS of KPTCL: During antecedent conditions, 2220kV/66kV Kanabargi SS, 220kV/66kV Belagavi SS, 220kV/66kV Indal SS, 220kV/66kV Aques SS, 220kV/66kV Kanagala SS, 220kV/66kV Chikodi SS, 220kV/66kV Mugalkod SS, 220kV/66kV Ghataprabha SS, 220kV/66kV Kudachi SS, 220kV/66kV Athani SS are being radially fed from 220kV Narendra Kanabargi Line-1&2, 220kV Narendra Ghataprabha Line-1&2, 220kV Mahalingapura Kudachi, 220kV Mahalingapura Athani. The triggering incident was RY-N fault in 220kV Narendra Kanabargi Line-2. After this, 220kV Narendra Kanabargi Line-1, 220kV Narendra Ghataprabha Line-2, 220kV Mahalingapura Kudachi, 220kV Mahalingapura Athani tripped on over loading and 220kV Narendra Ghataprabha Line-1 tripped on R-N fault. Tripping of lines led to complete outage of 2220kV/66kV Kanabargi SS, 220kV/66kV Belagavi SS, 220kV/66kV Indal SS, 220kV/66kV Aques SS, 220kV/66kV Kanagala SS, 220kV/66kV Chikodi SS, 220kV/66kV Mugalkod SS, 220kV/66kV Ghataprabha SS, 220kV/66kV Kudachi SS, 220kV/66kV Athani SS.	220KV-MAHALINGAPURA-KUDACHI-1, 220KV-ATHANI-MAHALINGAPURA-1, 220KV-KANABARGI-NARENDRA_KP-1, 220KV-KANABARGI-NARENDRA_KP-2, 220KV-NARENDRA-GHATPRABHA-1, 220KV-NARENDRA-GHATPRABHA-2

Details of Grid Events during the Month of April 2025 in Southern Region

Sl No.	Category of Grid Event (GI 1or GI 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)		
8	GD - 1	KARNATAKA	16-04-2025 13:35	16-04-2025 14:09	00:34	348	1094	0.73%	1.95%	47487.79	56001.01	North Karnataka Grid Disturbance: The triggering incident is at 13:36:43.120 with the tripping of the 220kV Bagewadi-Nandihal-2 line due to a fault. This was followed by the manual tripping of the Bagewadi-Nandihal-1 line at 13:39:42.440. Shortly after, around 13:41, both circuits of the 220kV Gadag-Bagalkot line tripped due to faults. At 13:43:22.240, the 220kV Bagewadi-Lingsugur-1 and 2 lines also tripped on fault, resulting in overloading of multiple remaining lines. The situation worsened when the 220kV NTPC Kudgi-Vajramatti-2 line tripped due to a fault at 13:54:03.035. Around 13:55, the 220kV Narendra-Ghataprabha-1 line also tripped on fault, prompting the manual tripping of both 220kV Ghataprabha-Mugalkhod lines to control overloading. This action, however, further increased the load on the remaining 220kV NTPC Kudgi-Vajramatti-1 line. It is suspected that the final blow came with the tripping of 220kV Mahalingapur-Savadatti-1 and 2 and the remaining Kudgi-Vajramatti-1 line, which led to the collapse of the entire affected grid area.	220KV-ALMATTI-BAGALKOT-1, 220KV-ALMATTI-BAGALKOT-2, 220KV-BAGALKOT-VAJRAMATTI-1, 220KV-BAGALKOT-VAJRAMATTI-2, 220KV-GADAG-BAGALKOT-1, 220KV-GADAG-BAGALKOT-2, BAGALKOT - 220KV - Bus 1, BAGALKOT - 220KV - Bus 2, 220KV-GADAG-BAGALKOT-1, 220KV-GADAG-BAGALKOT-2, 220KV-GADAG-BAGALKOT-1, 220KV-GADAG-BAGALKOT-2, 220KV-BAGALKOT-VAJRAMATTI-1, 220KV-MAHALINGAPURA-VAJRAMATTI-1, VAJRAMATTI - 220KV
9	GD - 1	KARNATAKA	20-04-2025 20:15	20-04-2025 23:21	03:06	0	0	0.00%	0.00%	44814.51	47553.58	Complete Outage of 220kV Rychalu SS of KSPDCL: As per the reports submitted, the triggering incident was B-N fault in 220kV Pavagada Rychalu line and the line tripped. Tripping of the only connected line led to complete outage of 220kV Rychalu SS.	220KV-PAVAGADA_PG-RYCHALU1, RYCHALU1 - 220KV, , 220KV-PAVAGADA_PG-RYCHALU1
10	GD - 1	TAMILNADU	20-04-2025 20:32	20-04-2025 20:34	00:02	0	320	0.00%	0.67%	44838.21	47589.02	Complete Outage of 230kV/110kV Thiruvarur SS and 230kV/110kV Kumbakonam SS of TANTRANSCO: Triggering incident was R-ph jumper cut in the Bus section isolator resulting in 230kV Bus-2 fault at 230kV/110kV Thiruvarur SS. 230kV BBP operated at 230kV/110kV Thiruvarur SS. Due to single bus operation there was complete outage of 230kV/110kV Thiruvarur SS. Since 230kV Kumbakonam Kadalangudi line was under idle charged condition from Kadalangudi end during antecedent to limit overloading of NLC ICTs, 230kV/110kV Kumbakonam SS was radially fed by 230kV/110kV Thiruvarur SS and hence affected.	230KV-PP_NALUR-THIRUVARUR-1, 230KV-THIRUVARUR-KUMBAKONAM-1, 230KV-THIRUVARUR-NAGAI_POWER-1, 230KV-THIRUVARUR-KARAMBAYAM-1
11	GD - 1	TELANGANA , ANDHRA PRADESH , TELANGANA	21-04-2025 01:32	21-04-2025 02:28	00:56	0	46	0.00%	0.10%	46029.75	45777.77	Complete Outage of 220kV Chalakurthy SwS, 220kV Puliyanthanda LIS and 220kV Puttamgandi LIS of TGTRANSCO: During antecedent conditions, 20kV Puliyanthanda LIS and 220kV Puttamgandi LIS were being radially fed from 220kV Chalakurthy SwS. 220kV Chalakurthy is operating with single bus. As per the reports submitted,the triggering incident was R-phase CT failure of 220kV Chalakurthy -Puttamgandi line. BBP of 220kV Chalakurthy bus operated and all lines connected to 220kV Chlakaurthy bus tripped. Tripping of all lines led to complete outage of 220kV Chalakurthy SwS which inturn led to complete outage of 220kV Puliyanthanda LIS and 220kV Puttamgandi LIS.	220KV-CHALAKURTHY-KONDAMALLEPALLY-1, 220KV-CHALAKURTHY-KONDAMALLEPALLY-2, 220KV-CHALAKURTHY-PULIYATHANDA-1, 220KV-CHALAKURTHY-PUTTAMGANDI-1, 220KV-MIRYALAGUDA-CHALAKURTHY-1, 220KV-NAGARJUNASAGAR_AP-CHALAKURTHY-1, 220KV-NAGARJUNASAGAR_TS-CHALAKURTHY-1
12	GD - 1	ANDHRA PRADESH	21-04-2025 21:30	21-04-2025 22:23	00:53	0	0	0.00%	0.00%	48099.88	54522.29	Complete Outage of 400 kV AMGEPL SOLAR: During the charging of 400/33kV ICT-2 at AMGEPL due to the suspected inrush of the transformer, 400kV AMGEPL Solar-GREENKO line got tripped at GREENKO end due to EF operation and DT was sent to remote end leading to tripping at AMGEPL Solar end also. Due to the tripping of the only connected line led to the complete outage of 400/33kV AMGEPL Solar.	400KV-GREENKO_CPSS-AMGEPL_SOLAR-1
13	GD - 1	TAMILNADU	22-04-2025 15:14	22-04-2025 18:50	03:36	396	0	0.80%	0.00%	49623.31	61647.58	Complete Outage of 400kV CEPL Generating Station: During antecedent conditions, 400kV CEPL Tuticorin PS line-2 was under shutdown for maintenance. Triggering incident was BN fault in 400kV CEPL Tuticoirn PS line-1 due to LA failure at CEPL end. Due to tripping of the only connected line, there was complete outage of 400kV CEPL generating station.	400KV-CEPL-TUTICORIN_PS-1, 420KV/20KV CEPL-GT-1
14	GD - 1	TAMILNADU	23-04-2025 12:45	23-04-2025 13:20	00:35	0	180	0.00%	0.30%	51297.12	60791.87	Complete Outage of 230kV Vinnamnagalam and 230kV Tirupatur SS: 230kV Thirupathur and 230kV Vinnamangalam stations are connected via Hosur and Singarpet via 230kV Hosur-Thirupathur and 230kV Singarpet Vinnamangalam. Initially, due to the R-N fault in 230kV Hosur-Thirupathur tripped. Later due to B-N fault 230kV Singarpet-Vinnamangalam led to the complete outage of 230kV Thirupathur and 230kV Vinnamangalam SS.	230KV-HOSUR_PG-TIRUPATTUR-1, 230kV SINGARPET VINNAMANGALAM
15	GD - 1	TAMILNADU	24-04-2025 07:40	24-04-2025 07:58	00:18	0	25	0.00%	0.05%	43525.3	54026.4	Complete Outage of 230kV Tirupattur SS and 230kV Vinnimangalam SS: In the antecedent conditions, 230kV Singarpet - Vinnamangalam line was taken under shutdown. 230KV-HOSUR_PG-TIRUPATTUR-1 was the only line feeding 230kV Tirupattur and Vinnimangalam stations. 230KV-HOSUR_PG-TIRUPATTUR-1 line only tripped at Hosur end due to emergency trip plunger mechanical issue. Th tripping of the line led to the Complete outage of 230kV Tirupattur and 230kV Vinnimangalam stations	230KV-HOSUR_PG-TIRUPATTUR-1

Details of Grid Events during the Month of April 2025 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 (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 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)		
16	GD - 1	KARNATAKA	25-04-2025 21:29	25-04-2025 22:55	01:26	207	0	0.44%	0.00%	47261.48	55030.52	Complete Outage of 220kV Veena_Gadag PS: Triggering incident was RN fault in 220KV-GADAG_PSS-Vena_GadagPS-1. Due to tripping of the only connected line, there was complete outage of 220kV Veena_GadagPS.	220KV-GADAG_PSS-Vena_GadagPS-1
17	GD - 1	KARNATAKA	26-04-2025 00:35	26-04-2025 02:51	02:16	0	0	0.00%	0.00%	47784.17	52401.15	Complete Outage 220kV Hiriyur ZENATARIS_PSS: Triggering incident was fault in 220KV-HIRIYUR-Hiriyur ZENATARIS_PSS-1. Due to the tripping of only connected line, there was complete outage of 220kV Hiriyur ZENATARIS_PSS.	ZENATARIS_PSS - 220KV
18	GD - 1	TAMILNADU	26-04-2025 07:19	26-04-2025 08:08	00:49	0	0	0.00%	0.00%	41391.9	52567.1	Complete Outage of 230kV Sprng Pugalur Wind Station: During charging of 230kV/33kV PTR#3 at 230kV Sprng Pugalur Wind Station, LBB operated resulting in the tripping of all the elements connected to 230kV Bus-1 and Bus-2 at 230kV/33kV Sprng Pugalur Wind Station.	230KV PUGALUR SPRNG_PUGALUR
19	GD - 1	KARNATAKA	27-04-2025 18:08	27-04-2025 19:25	01:17	26	12	0.07%	0.03%	35586.06	44749.53	Complete Outage of 220kV/66kV/11kV Chitradurga SS: Due to LBB operation of 100MVA 220kV/66kV Chitradurga PTR#2, all the 220kV elements connected to Bus-1 and Bus-2 got tripped resulting in the complete outage of 220kV/66kV/11kV Chitradurga SS.	220KV-Chitradurga-JAGALUR-1, 220KV-Chitradurga-JAGALUR-2, 220KV-Chitradurga-TALLAK-1, 220KV-GUTTUR-Chitradurga-1, 220KV-HIRIYUR-Chitradurga-1, Chitradurga - 220KV
20	GD - 1	KARNATAKA	27-04-2025 19:13	27-04-2025 22:12	02:59	170	0	0.43%	0.00%	39781.62	46578.1	Complete Outage 220kV Hiriyur Ostro Wind Station: As per the reports submitted, the triggering incident was RY-N fault in 220kV Hiryur Ostro Kannada line and the line tripped. Tripping of the only connected line led to complete outage of 220kV Hiriyur Ostro Wind Station.	220KV HIRIYUR OSTRO_HIRIYUR
21	GI-2	KARNATAKA	03-04-2025 00:10	03-04-2025 10:13	10:03	0	0	0.00%	0.00%	43641.62	53734.43	Tripping of 400kV Bus-2 of 400kV YTPS of KPCL: Triggering incident was BN fault in 400kV YTPS BPS line-1. At BPS end, fault was sensed in Zone-1. At YTPS end, the fault was sensed in Zone-2 and carrier was received. Due to non-opening of B-pole 411 CB of BPS line-1 which was connected to Bus-2, LBB operated resulting in the tripping of all the main breakers of Bus-2. This resulted in loss of power supply to 400kV Bus-2 of YTPS generating station.	400KV-BPS-YTPS-1
	GI-1	TAMILNADU	03-04-2025 23:09	03-04-2025 23:27	00:18	0	0	0.00%	0.00%	39688.29	48557.1	Tripping of 220kV Bus-1 of 230kV Kinnimangalam SS: The triggering incident was B-N fault in 230kV TTPS Kinnimangalam line. At Kinnimangalam end, B-pole failed to open. Immediately, LBB operated and all elements connected to 230kV Bus-1 tripped.	230KV-Chekkanurani-KINNIMANGLAM-1, 230KV-TTPS-KINNIMANGLAM-1, 230KV-PASUMALAI-KINNIMANGLAM-2
	GI-2	TAMILNADU , ANDHRA PRADESH	13-04-2025 23:43	14-04-2025 03:57	04:14	0	0	0.00%	0.00%	41611.59	47561.98	Tripping of 400kV Bus-1 of 400kV/220kV Thiruvalam_TN SS of TNEB: The triggering incident was B-phase LA failure in 400kV Chittoor Thiruvalam_PG Line-1. At the same time, 400kV Bus-1 BBP of 400/220kV Thiruvalam_TN operated and all main breakers connected to 400kV Bus-1 tripped at 400/220kV Thiruvalam_TN SS.	400KV-THIRUVALAM-CHITTOOR-1
	GI-2	ANDHRA PRADESH	15-04-2025 15:05	15-04-2025 21:02	05:57	0	0	0.00%	0.00%	46001.34	58281.79	Tripping of 400kV Bus-1 of 400kV/220kV Maradam SS: Triggering incident was RN fault in 400kV Bus-1 at 400kV/220kV Maradam SS. 400kV Bus-1 BBP operated resulting in the tripping of all the main breakers.	-
	GI-2	KARNATAKA	22-04-2025 11:18	22-04-2025 15:06	03:48	0	0	0.00%	0.00%	50744.78	58817.15	Tripping of 400kV Bus-1 of 400kV RTPS Generating station of KPCL: The triggering incident was LBB maloperation in RTPS Unit-4 while charging the unit. This led to tripping of all main breakers connected to 400kV Bus-1 of RTPS Generating station.	-

Details of Grid Events during the Month of April 2025 in North 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 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 I	Umiam area of Meghalaya Power System	01-04-2025 01:55	01-04-2025 03:11	01:16	0	13	0.00%	0.64%	1840	2039	Umiam area of Meghalaya Power System were connected with rest of NER Grid through 132 kV NEHU - Umiam Line and 132 kV Umiam - Umiam St I Line. At 01:55 Hrs of 01-04-2025, 132 kV NEHU - Umiam Line and 132 kV Umiam - Umiam St I Line tripped. Due to tripping of these elements, Umiam area of Meghalaya Power System got isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Umiam area of Meghalaya Power System by charging 132 kV NEHU - Umiam Line at 03:11 Hrs of 01-04-2025.	132 kV NEHU - Umiam Line and 132 kV Umiam - Umiam St I Line
2	GD I	Rengpang area of Manipur Power System	05-04-2025 21:12	07-04-2025 16:22	43:10	0	1	0.00%	0.04%	2634	2786	Rengpang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak-Rengpang line. Prior to the event, 132 kV-Jiribam-Rengpang line was under long outage since 18:18 Hrs of 17.11.2023. At 21:12 Hrs of 05-04-2025, 132kV Loktak-Rengpang line tripped. Due to tripping of this element, Rengpang area of Manipur Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Rengpang area of Manipur Power System by charging 132 kV Loktak-Rengpang line at 16:22 Hrs of 07-04-2025.	132kV Loktak-Rengpang line
3	GD I	Tuirial HEP of NEEPCO & Kolasib and Bairabi areas of Mizoram power system	07-04-2025 03:34	07-04-2025 05:52	02:18	0	1	0.00%	0.06%	1504	1555	Kolasib and Bairabi areas of Mizoram & Tuirial HEP of NEEPCO were connected with rest of NER Grid through 132 kV Kolasib-Badarpur and 132 kV Kolasib – Aizawl lines. At 03:34 Hrs of 07-04-2025, 132 kV Aizawl-Kolasib and 132kV Badarpur-Kolasib lines tripped. Due to tripping of these elements, Kolasib, Turial and Bairabi areas of Mizoram Power system got isolated from NER grid and collapsed due to no source available in these areas. Power supply was extended to Kolasib area by charging 132 kV Badarpur-Kolasib line at 04:26 Hrs of 07-04-2025. Power was extended to Tuirial HEP at 05:33 Hrs by charging 132 kV Tuirial-Kolasib Line and to Bairabi area by charging 132 kV Kolasib-Bairabi Line at 05:52 Hrs of 07-04-2025.	132 kV Aizawl-Kolasib and 132kV Badarpur-Kolasib lines
4	GD I	Ziro, Daporizo, Basar, Along, Pasighat, Napit, Niglok, Roing, Tezu and Namsai areas of Arunachal Pradesh	10-04-2025 12:38	10-04-2025 13:02	00:24	0	51	0.00%	2.47%	1281	2067	Ziro, Daporizo, Basar, Along, Pasighat, Napit, Niglok, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were radially connected with rest of NER Grid through 132 kV Panyor - Ziro Line. Prior to the event, 132 kV Roing-Chapakhowa D/C lines was opened to facilitate planned shutdown of 132 kV Rupai-Margherita Line. At 12:38 Hrs of 10-04-2025, 132 kV Panyor – Ziro Line tripped. Due to tripping of this line, Ziro, Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Ziro and radially connected S/S of Arunachal Pradesh Power System by charging 132 kV Panyor - Ziro Line at 13:02 Hrs of 10.04.2025.	132 kV Panyor – Ziro Line
5	GD I	Dharmanagar area of Tripura Power system	10-04-2025 13:22	10-04-2025 13:47	00:25	0	19	0.00%	0.98%	1243	1947	Dharmanagar area of Tripura Power System was connected with rest of NER Grid through 132 kV Dharmanagar-Dullavchhera line. Prior to the event, 132 kV PK Bari-Dharmanagar Line was under planned shutdown. At 13:22 Hrs of 10-04-2025, 132 kV Dharmanagar-Dullavchhera line tripped. Due to tripping of this element, Dharmanagar area of Tripura Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Dharmanagar area of Tripura Power System by charging 132 kV Dharmanagar-Dullavchhera line at 13:47 Hrs of 10-04-2025.	132 kV Dharmanagar-Dullavchhera line

Details of Grid Events during the Month of April 2025 in North 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 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)		
6	GD I	400/132 kV Kameng S/S, Khupi and Seppa areas of Arunachal Pradesh power system	17-04-2025 00:01	17-04-2025 01:54	01:53	0	1	0.00%	0.05%	1954	1956	400/132 kV Kameng substation, Khupi and Seppa areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 400 kV Balipara-Kameng D/C Lines & 132 kV Khupi-Tenga Line. Prior to the event, 400 kV Balipara-Kameng D/C Lines tripped at 23:55 Hrs of 16-04-2025. At 00:01 Hrs of 17-04-2025, 132 kV Tenga-Khupi Line tripped. Due to tripping of this element, Khupi & Seppa areas of Arunachal Pradesh got isolated from NER grid and collapsed due to no source available in these areas. Power was extended to 400/132 kV Kameng ICT by charging 400 kV Balipara-Kameng I Line at 00:26 Hrs of 17-04-2025. Power was extended to Khupi & Seppa areas by charging 132 kV Kameng-Khupi Line at 01:33 Hrs and 132 kV Khupi-Seppa Line at 01:54 Hrs of 17-04-2025 respectively.	132 kV Tenga-Khupi Line
7	GD I	Monarchak Generation of NEEPCO & Rabindranagar area of Tripura power system	17-04-2025 12:49	17-04-2025 13:10	00:21	76 (57 MW-Monarchak & 19 MW-Rokhia)	3	5.06%	0.14%	1502	2074	Monarchak Generating station of NEEPCO and Rabindranagar area of Tripura Power System were connected with rest of NER Grid through and 132 kV Monarchak-Rokhia line. Prior to the event, 132 kV Monarchak-Udaipur line tripped at 12:47 Hrs of 17.04.2025. At 12:49 Hrs of 17-04-2025, 132 kV Monarchak-Rokhia line tripped. Due to tripping of this element, Monarchak Generating station and Rabindranagar area of Tripura Power System were isolated from NER Grid due to load generation mismatch in these areas. Power supply was extended to Monarchak Generating station and Rabindranagar of Tripura Power System by charging 132 kV Monarchak-Udaipur line at 13:10 Hrs of 17-04-2025.	132 kV Monarchak-Rokhia line, Monarchak GTG, Monarchak STG & Rokhia Unit-7
8	GD I	132 kV Kameng S/S of NEEPCO & Khupi and Seppa areas of Arunachal Pradesh Power system	17-04-2025 13:58	17-04-2025 17:59	04:01	0	1	0.00%	0.05%	1360	1981	132 kV Kameng S/S of NEEPCO and Khupi and Seppa areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 400/132 kV ICT at Kameng. Prior to the event, 132 kV Tenga-Khupi Line tripped at 00:01 Hrs of 17-04-2025. At 13:58 Hrs of 17.04.2025, 400/132 kV ICT at Kameng and 132 kV Khupi-Seppa line tripped. Due to these trippings, 132 kV Kameng S/S, Khupi and Seppa areas of Arunachal Pradesh got isolated from NER grid and collapsed due to no source available in these areas. Power supply was extended to 132 kV Kameng S/S by charging 400/132 kV Kameng ICT at 14:45 Hrs of 17-04-2025 and to Khupi area of Arunachal Pradesh Power System by charging 132 kV Kameng-Khupi line at 15:57 hrs of 17-04-2025. Power extended to Seppa area by charging 132 kV Khupi-Seppa line at 17:59 Hrs of 17-04-2025.	400/132 kV ICT at Kameng and 132 kV Khupi-Seppa
9	GD I	Zuangtui, Serchhip and Saitual areas of Mizoram power system	17-04-2025 15:16	17-04-2025 16:36	01:20	0	33 MW (24 MW in Zuangtui & 9 MW in Serchhip)	0.00%	1.52%	1421	2167	Zuangtui, Serchhip and Saitual areas of Mizoram power system were connected with rest of NER grid through 132 kV Melriat(PG)-Zuangtui Line. Prior to the event, 132 kV Serchhip-Lunglei & 132 kV Sihhmui-Zuangtui Lines were kept open due to system requirement. At 15:16 Hrs of 17.04.2025, 132 kV Zuangtui-Serchhip Line tripped leading to grid disturbance in Serchhip area of Mizoram power system. At 15:23 Hrs of 17.04.2025, 132 kV Melriat(PG)-Zuangtui Line tripped leading to grid disturbance in Zuangtui & Saitual areas of Mizoram power system. Power supply was restored to Zuangtui S/S by charging 132 kV Melriat(PG) – Zuangtui line at 16:36 Hrs of 17-04-2025. Power supply was restored to Serchhip area by charging 132 kV Zuangtui-Serchhip line at 14:12 Hrs of 19-04-2025.	132 kV Zuangtui-Serchhip Line & 132 kV Melriat(PG)-Zuangtui Line
10	GD I	Pasighat, Napit & Niglok areas of Arunachal Pradesh	22-04-2025 00:37	22-04-2025 01:56	01:19	0	22	0.00%	1.06%	2041	2075	Pasighat and radially connected Napit & Niglok areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Along-Pasighat & 132 kV Roing - Pasighat lines. At 00:37 Hrs of 22-04-2025, 132 kV Along-Pasighat & 132 kV Roing - Pasighat lines tripped. Due to tripping of these elements, Pasighat and radially connected Napit & Niglok areas of Arunachal Pradesh Power System got isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Pasighat area and radially connected Napit & Niglok by charging 132 kV Roing –Pasighat line at 01:56 Hrs of 22-04-2025.	132 kV Along-Pasighat & 132 kV Roing - Pasighat lines
11	GD I	Pasighat, Napit, Niglok areas of Arunachal Pradesh	22-04-2025 08:02	22-04-2025 08:49	00:47	0	5	0.00%	0.24%	1808	2056	Pasighat and radially connected Napit & Niglok areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Roing - Pasighat lines. Prior to the event, 132 kV Along-Pasighat line tripped at 00:37 Hrs of 22-04-2025. At 08:02 Hrs of 22-04-2025, 132 kV Roing - Pasighat line tripped. Due to tripping of these elements, Pasighat and radially connected Napit & Niglok areas of Arunachal Pradesh Power System got isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Pasighat area and radially connected Napit & Niglok by charging 132 kV Along –Pasighat line at 08:49 Hrs of 22-04-2025.	132 kV Roing - Pasighat line

Details of Grid Events during the Month of April 2025 in North Eastern Region

Sl No.	Category of Grid Event (GI 1or GI 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)		
12	GD I	Kohima area of Nagaland power system	23-04-2025 16:23	23-04-2025 16:38	00:15	0	15	0.00%	0.69%	1982	2172	Kohima area of Nagaland power system was connected with rest of NER grid through 132 kV Kohima-Zadhima Line. Prior to the event, 132 kV Kohima-Karong & 132 kV Dimapur(PG)-Kohima were already under outage from 11:45 Hrs & 16:06 Hrs of 23-04-2024 respectively. Also, 132 kV Meluri-Kohima line is under prolonged shutdown. At 16:23 Hrs of 23-04-2025, 132 kV Kohima-Zadhima Line tripped. Due to tripping of this element, Kohima area of Nagaland power system got isolated from NER grid and collapsed due to no source available in these areas. Power supply was extended to Kohima area by charging 132 kV Kohima – Dimapur line at 16:38 Hrs of 23-04-2025.	132 kV Kohima-Zadhima Line
13	GD I	132 kV Kameng S/S of NEEPCO & Tenga, Khupi and Dikshi areas of Arunachal Pradesh	24-04-2025 18:15	24-04-2025 19:36	01:21	0	13	0.00%	0.42%	3115	3071	132 kV Kameng S/S of NEEPCO and Tenga, Khupi and Dikshi areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 400/132 kV ICT at Kameng & 132 kV Balipara-Tenga Line. Prior to the event, 132 kV Khupi-Seppa line was under outage. At 18:15 Hrs of 24-04-2025, 400/132 kV ICT at Kameng, 132 kV Balipara-Tenga line and 132 kV Tenga-Khupi line tripped. Due to these trippings, 132 kV Kameng S/S, Tenga, Khupi and Dikshi areas of Arunachal Pradesh got isolated from NER grid and collapsed due to no source available in these areas. Power supply was restored at Khupi, Dikshi & Tenga areas of Arunachal Pradesh Power System by charging 132 kV Balipara-Tenga line and 132 kV Kameng-Khuppi line at 19:27 Hrs and 19:36 Hrs of 24-04-2025 respectively. 400/132 kV Kameng ICT charged at 18:30 Hrs of 24-04-2025.	400/132 kV ICT at Kameng, 132 kV Balipara-Tenga line and 132 kV Tenga-Khupi line
14	GD I	Seppa area of Arunachal Pradesh Power System	24-04-2025 15:47	24-04-2025 20:10	04:23	0	2	0.00%	0.08%	1939	2422	Seppa area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Khupi-Seppa line. At 15:47 Hrs of 24-04-2025, 132 kV Khupi-Seppa Line tripped. Due to tripping of this element, Seppa area of Arunachal Pradesh Power System got isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Seppa area by charging 132 kV Khupi-Seppa Line at 20:10 Hrs of 24-04-2025.	132 kV Khupi-Seppa Line
15	GD I	Tezu and Namsai areas of Arunachal Pradesh power system	25-04-2025 16:11	26-04-2025 00:10	07:59	0	9	0.00%	0.36%	1601	2476	Tezu and Namsai areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Roing – Tezu line. At 16:11 Hrs of 25-04-2025, 132 kV Roing – Tezu line tripped. Due to tripping of this element, Tezu and Namsai areas of Arunachal Pradesh Power System got isolated from NER Grid and collapsed due to no source available in these areas. Power was extended to Tezu and Namsai areas by charging 132 kV Roing-Tezu line at 00:10 Hrs of 26-04-2025.	132 kV Roing – Tezu line
16	GD I	Leshka HEP of Meghalaya power system	27-04-2025 02:43	27-04-2025 03:31	00:48	119	0	7.26%	0.00%	1640	1532	Leshka HEP of Meghalaya power system was connected to rest of NER grid through 132 kV Leshka-Mynkre I&II Lines. At 02:43 Hrs of 27-04-2025, 132 kV Leshka-Mynkre I & II Lines tripped. Due to tripping of these elements, Leshka HEP of Meghalaya got isolated from NER grid and collapsed due to no source available in these areas. Power was extended to Leshka HEP by charging 132 kV Leshka-Mynkre Line-I & II at 03:31 Hrs and 03:33 Hrs of 27-04-2025 respectively.	132 kV Leshka-Mynkre I & II Lines, Leshka Unit-1,2 & 3
17	GD I	Leshka HEP of Meghalaya power system	28-04-2025 07:04	28-04-2025 07:48	00:44	0	0	0.00%	0.00%	1755	1888	Leshka HEP of Meghalaya power system was connected to rest of NER grid through 132 kV Leshka-Mynkre I&II Lines. At 07:04 Hrs of 28-04-2025, 132 kV Leshka-Mynkre I & II Lines tripped. Due to tripping of these elements, Leshka HEP of Meghalaya got isolated from NER grid and collapsed due to no source available in these areas. Power was extended to Leshka HEP by charging 132 kV Leshka-Mynkre Line-I & II at 07:48 Hrs and 07:52 Hrs of 28-04-2025 respectively.	132 kV Leshka-Mynkre I & II Lines
18	GD I	Dharmanagar area of Tripura power system	28-04-2025 09:07	28-04-2025 09:44	00:37	0	9	0.00%	0.63%	1469	1418	Dharmanagar area of Tripura power system was connected to rest of NER grid through 13 2kV Dharmanagar –Dullavcherra and 132 kV P K Bari – Dharmanagar lines. At 09:07 Hrs of 28-04-2025, 132 kV Dharmanagar –Dullavcherra line and 132 kV P K Bari –Dharmanagar line tripped. Due to tripping of these lines, Dharmanagar area of Tripura Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Dharmanagar area of Tripura Power System by charging 132 kV P K Bari – Dharmanagar line at 09:44 Hrs of 28.04.2025.	132 kV Dharmanagar –Dullavcherra line and 132 kV P K Bari –Dharmanagar line

Details of Grid Events during the Month of April 2025 in North Eastern Region

Sl No.	Category of Grid Event (GI 1or GI 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)		
19	GD I	Churachanpur, Elangkankpokpi, Thanlon, Kakching, Chandel and Morey areas of Manipur and Tamu area Myanmar Power system	28-04-2025 13:43	28-04-2025 14:17	00:34	0	30	0.00%	1.98%	1270	1512	Churachanpur, Elangkankpokpi, Thanlon, Kakching, Chandel and Morey areas of Manipur and Tamu area Myanmar Power system were connected to rest of NER grid through 132 kV Ningthoukhong-Churachandpur II, 132 kV Old Thoubal-Kakching & 132 kV New Thoubal-Kakching Lines. At 13:43 Hrs of 28-04-2025, 132 kV Ningthoukhong-Churachandpur II, 132 kV Old Thoubal-Kakching, 132 kV New Thoubal-Kakching & 132 kV Churachandpur-Kakching Lines tripped. Due to tripping of these lines, Churachanpur, Elangkankpokpi, Thanlon, Kakching, Chandel and Morey areas of Manipur and Tamu area Myanmar Power system got isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Kakching area by charging 132 kV Old Thoubal-Kakching Line at 14:05 Hrs of 28-04-2025 and to Churachandpur area by charging 132 kV Churachandpur-Kakching Line at 14:17 Hrs of 28-04-2025.	132 kV Ningthoukhong-Churachandpur II, 132 kV Old Thoubal-Kakching, 132 kV New Thoubal-Kakching & 132 kV Churachandpur-Kakching Lines