

Details of Grid Events during the Month of Aug 2024 in Northern Region



Sl No.	Category of Grid Event (GI for GI-2/GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HEMM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load in Antecedent 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	GI-1	Rajasthan	01-08-2024 09:38	01-08-2024 14:46	05:08	143	0	0.272	0.000	52615	61649	<p>i) 220kV ABC Renewables(IP) has double main bus scheme at 220kV level.</p> <p>ii) During antecedent condition, loading of 220/33 kv 150 MVA ICT-1 & 2 were approx. 72 & 72 MW respectively (as per SCADA).</p> <p>iii) As reported, at 09:38 hrs, sparking occurred in LV cables of ICT-1 at ABC Renewables(IP) S/s which led to failure of LV cables and caused R-N phase to earth fault. On this fault ICT-1 tripped at ABC Renewables(IP) S/s (details of type of protection operated is yet to be received).</p> <p>iv) As per PMU at ABC Renewables(IP), R-N phase to earth fault with fault clearance time of 80msec is observed.</p> <p>v) As reported, due to nearby sparking in cables, for the safety of ICT-2 and remaining LV cables, ICT-2 hand tripped at ABC Renewables(IP) S/s.</p> <p>vi) During this event, dip in NR solar generation of approx. 120 MW is observed (As per SCADA).</p> <p>vii) As per SCADA, no change in demand is observed in Rajasthan control area.</p> <p>viii) As per SCADA, loss in solar generation of approx. 143MW is observed at 220kV ABC Renewables(IP) S/s.</p>	<p>1) 220/33 kv 150 MVA ICT-1 at ABCRenew_RJ01_SL_BHD2_PG</p> <p>2) 220/33 kv 150 MVA ICT-2 at ABCRenew_RJ01_SL_BHD2_PG</p>
2	GI-1	Jammu and Kashmir	02-08-2024 15:03	02-08-2024 15:35	00:32	0	345	0.000	0.498	51533	69320	<p>i) As reported, at 15:03hrs, 220/132kV 160MVA ICT-1, 132kV Barn-Canal (JK) D/C tripped at Barn(JK) S/s on Y-B phase to phase fault which occurred on 132kV Barn-Canal (JK) D/C (exact reason, location of fault and type of protection operated is yet to be received).</p> <p>ii) As reported, due to tripping of ICT-1, the complete load shifted on 220/132kV 160MVA ICT-2 & 3 which led to tripping of 220/132kV 160MVA ICT-2 & 3 on overloading at Barn(JK) S/s.</p> <p>iii) As per PMU at Kishanpur(PG), Y-B phase to phase fault with fault clearing time of 120ms is observed.</p> <p>iv) As per SCADA, load loss of approx. 345MW occurred in J&K control area.</p>	<p>1) 220/132kV 160MVA ICT-1 at Barn (JK)</p> <p>2) 220/132kV 160MVA ICT-2 at Barn (JK)</p> <p>3) 220/132kV 160MVA ICT-3 at Barn (JK)</p> <p>4) 32kV Barn-Canal (JK) Ckt-1</p> <p>5) 32kV Barn-Canal (JK) Ckt-2</p>
3	GI-2	Punjab	07-08-2024 11:26	07-08-2024 12:48	01:22	0	30	0.000	0.044	57445	68389	<p>i) 200/220kV Patiala(PG) has double main and transfer bus arrangement at 220kV side.</p> <p>ii) During antecedent condition, loading of 400/220 315 MVA ICT-1 & 2 and 400/220 kv 500 MVA ICT-3 & 4 at Patiala(PG) were approx. 170 MW, 170 MW, 265 MW & 260 MW respectively, 220kV lines from Patiala(PG) to Nabha(PS) Ckt-2, Bahadurgarh(PS) Ckt-2 & Ablowal(PS) Ckt-2 and 400/220 kv 500 MVA ICT-4 & 400/220 kv 315 MVA ICT-2 were connected to 220kV Bus-2 at Patiala(PG) S/s.</p> <p>iii) As reported, at 11:26 hrs, during shifting of 400/220 kv 500 MVA ICT-4 from 220kV Bus-2 to 220kV transfer bus, protection switchover of ICT-4 bay was not successful and bus bar protection relay of 220kV Bus-2 maloperated due to wiring related issues. (Exact reason of bus bar protection maloperation is yet to be received).</p> <p>iv) Due to bus bar protection, all the elements connected to 220kV Bus-2 at Patiala(PG) tripped.</p> <p>v) As per PMU at Patiala(PG), fluctuation in voltage and no fault in system is observed.</p> <p>vi) As per SCADA, change in demand of approx. 30 MW in Punjab control area.</p>	<p>1) 200/220 kv 500 MVA ICT 4 at Patiala(PG)</p> <p>2) 400/220 kv 315 MVA ICT 2 at Patiala(PG)</p> <p>3) 220 kv Patiala(PG)-Nabha(PS) (PSTCL) Ckt-2</p> <p>4) 220 kv Patiala(PG)-Ablowal(PS) (PSTCL) Ckt-2</p> <p>5) 220 kv Bahadurgarh(PS)-Patiala(PG) (PSTCL) Ckt-2</p> <p>6) 220kV Bus 2 at Patiala(PG)</p>
4	GD-1	Uttar Pradesh & Uttarakhand	11-08-2024 18:25	11-08-2024 19:00	00:35	0	120	0.000	0.221	46027	54199	<p>i) 220kV Nara(UP) has main and transfer bus scheme at 220kV level. ii) During antecedent condition, loading at Nara(UP) S/s was approx. 80 MW. Loading of 220/132kV 160 MVA ICT-1 & 2 and 220/132kV 200 MVA ICT-2 at Nara(UP) S/s were approx. 35 MW and 45 MW respectively. iii) As reported, at 18:25 hrs, 220 kv Meerut(PG)-Nara(UP) (PG) Ckt tripped from Meerut(PG) end on B-N phase to earth fault with fault distance of 10.5 km (33.02%) from Meerut(PG) end with fault current of I_b=14.05kA. On this fault, B-phase pole of CB of 220 kv Meerut(PG)-Nara(UP) (PG) Ckt at Nara(UP) end got stuck and could not open properly. On this, LBB of Meerut bay at Nara(UP) S/s operated which led to tripping of 220kV line from Nara(UP) to Roorkee(UK), 200/132kV 160 MVA ICT-1 and 200 MVA ICT-2 at Nara(UP) S/s. iv) As reported, during inspection (at Nara(UP) S/s) it was found that tripping command was issued to both 220kV Muzaffarnagar and 220kV Jansath bay also but their breakers were not tripped (cable found broken) hence both these lines were tripped from other end in zone -3. v) As per PMU at Muzaffarnagar(UP), B-N phase to earth fault with delayed fault clearance time of 1240msec is observed. vi) As per DR of Meerut end of 220 kv Meerut(PG)-Nara(UP) (PG) Ckt, B-N phase to earth fault with fault current of I_b=12.3kA with unsuccessful A/R operation is observed. Zone-1 distance protection operated from Meerut(PG) end. vii) Due to LBB operation at Nara(UP) S/s and tripping of 220 kv Nara-Jansath (UP) Ckt & 220 kv Nara-Muzaffarnagar (UP) Ckt from remote ends, Nara(UP) S/s lost its connectivity from Grid which led to blackout at 220kV Nara(UP) S/s. viii) As reported, no fault record found at Nara(UP) S/s. During inspection, it was found that DC main fuse of relay panel was blown off. ix) As per SCADA, change in demand of approx. 70 MW & 40 MW in UP and Uttarakhand control area respectively. However, SLDC-UP has reported load loss of approx. 80 MW at Nara(UP) S/s.</p>	<p>1) 220 kv Meerut(PG)-Nara(UP) (PG) Ckt</p> <p>2) 220 kv Nara(UP)-Roorkee(UK) (UP) Ckt</p> <p>3) 220 kv Nara-Jansath (UP) Ckt</p> <p>4) 220 kv Nara-Muzaffarnagar (UP) Ckt</p> <p>5) 220/132kV 160MVA ICT-1 at Nara(UP)</p> <p>6) 220/132kV 200MVA ICT-2 at Nara(UP)</p>
5	GD-1	Rajasthan	14-08-2024 16:12	14-08-2024 16:33	00:21	60	150	0.111	0.222	54124	67666	<p>i) During antecedent condition, 220 kv Anta-Sakatpura (RS) Ckt was not in service. 110 MW Kota TPS - UNIT 1 was generating approx. 60 MW.</p> <p>ii) As reported, at 16:12 hrs, Y-ph CT of 220 kv RAPS_A(NP)-Sakatpura (RS) (RS) Ckt-1 at Sakatpura(RS) end damaged and created bus fault at 220kV buses of Sakatpura(RS).</p> <p>iii) Due to this, busbar protection of both the 220kV buses at Sakatpura(RS) operated and all the elements connected to the buses tripped and complete blackout occurred at Sakatpura(RS).</p> <p>iv) 32kV feeder to Ranpur from Sakatpura also tripped. (Exact reason yet to be shared) All other 132kV feeders were hand-tripped after loss of supply.</p> <p>v) During the same time, 220 kv Kota(PG)-KTPS(RVUN) (RS) Ckt-1 also tripped on Y-N phase to earth fault sensing in zone-2 from Kota(PG) end. Also, 110 MW Kota TPS - UNIT 1 tripped (exact nature of protection operated is yet to be shared).</p> <p>vi) As per PMU at Kota(PG), Y-N phase to ground fault converted to R-N double phase to ground fault is observed with delayed fault clearing time of 200 ms.</p> <p>vii) As per SCADA, generation loss of approx. 60 MW is observed at KTPS.</p> <p>viii) As reported by SLDC Rajasthan, load loss of approx. 150 MW occurred in Rajasthan control area.</p>	<p>1) 220 kv RAPS_A(NP)-Sakatpura(RS) (RS) Ckt-1</p> <p>2) 220 kv RAPS_B(NP)-Sakatpura(RS) (RS) Ckt-2</p> <p>3) 220 kv RAPS_C(NP)-Sakatpura(RS) (RS) Ckt</p> <p>4) 220 kv KTPS-Sakatpura (RS) Ckt-1</p> <p>5) 220 kv KTPS-Sakatpura (RS) Ckt-2</p> <p>6) 220 kv KTPS-Sakatpura (RS) Ckt-3</p> <p>7) 220 kv KTPS-Sakatpura (RS) Ckt-4</p> <p>8) 220 kv Sakatpura-Ranpur (RS) Ckt</p> <p>9) 220 kv Sakatpura-Dahara (RS) Ckt</p> <p>10) 220 kv Sakatpura-Mandlagarh (RS) Ckt</p> <p>11) 220/132kV 160 MVA ICT-1 at Sakatpura(RS)</p> <p>12) 220/132kV 100 MVA ICT-2 at Sakatpura(RS)</p> <p>13) 220/132kV 100 MVA ICT-3 at Sakatpura(RS)</p> <p>14) 220/132kV 100 MVA ICT-4 at Sakatpura(RS)</p> <p>15) 220 kv Kota(PG)-KTPS(RVUN) (RS) Ckt-1</p> <p>16) 110 MW Kota TPS - UNIT 1</p>

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						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
6	GD-1	Delhi	18-08-2024 04:53	18-08-2024 05:35	00:42	0	144	0.000	0.233	47934	61849	<p>i) 220kV Najafgarh(DTL) has double main bus arrangement at 220kV level.</p> <p>ii) During antecedent condition, 220/66kV 160 MVA ICT-3 & 5 at Pappankalan-I and 220kV Bamanauli-Pappankalan (DTL) D/C were connected to Bus-1 and 220/66kV 100 MVA ICT-1 & 2 at Pappankalan-I and 220kV Dwarka-Pappankalan-I (DTL) D/C were connected to Bus-2 at Pappankalan-I. 220kV Bamanauli-Pappankalan (DTL) D/C were not in service and 220kV Bus coupler at Pappankalan-I was in ON position.</p> <p>iii) As reported, at 04:53 hrs, R-ph conductor of 220kV bus coupler at Pappankalan-I broke with heavy sound and was hanging in yard which created bus fault at 220kV Bus-2 of Pappankalan-I.</p> <p>iv) Due to this, busbar protection operated at 220kV Bus-2 of Pappankalan-I and all the elements connected to Bus-2 tripped.</p> <p>v) After tripping of 220kV Dwarka-Pappankalan-I (DTL) D/C, 220/66kV 160 MVA ICT-3 & 5 at Pappankalan-I was also tripped due to loss of supply and complete blackout occurred at 220/66kV Pappankalan-I S/s.</p> <p>vi) As per PMU at Dwarka(PG), R-N phase to earth fault with fault clearing time of 80msec is observed.</p> <p>vii) As per SCADA, change in demand of approx. 230 MW in Delhi control area. However, SLDC-Delhi reported load loss of approx. 144 MW (28MW at Hiranagar, 40MW at G-2, 41MW at Bindapur, 15MW at D C Janakpuri, Chaukhandi and 20MW at Bodella-1) in Delhi control area.</p>	<p>1) 220kV Dwarka-Pappankalan-I (DTL) Ckt-1</p> <p>2) 220kV Dwarka-Pappankalan-I (DTL) Ckt-2</p> <p>3) 220/66kV 100 MVA ICT-1 at Pappankalan-I</p> <p>4) 220/66kV 100 MVA ICT-2 at Pappankalan-I</p> <p>5) 220/66kV 160 MVA ICT-3 at Pappankalan-I</p> <p>6) 220/66kV 160 MVA ICT-5 at Pappankalan-I</p>
7	GI-2	Rajasthan	19-08-2024 23:48	20-08-2024 03:05	03:17	0	0	0.000	0.000	50301	66210	<p>i) 400/220kV Kankroli(PG) has one and half bus arrangement at 400kV side.ii) During antecedent condition, incoming power at Kankroli(PG) S/s from Zerda(GETCO) S/s through 400 KV Kankroli-Zerda (PG) Ckt-1 & 2 were approx. 50 MW & 30 MW respectively.iii) As reported, at 23:48 hrs, Y-phase CT of bus coupler of 400kV bus-1 & bus-2 at Zerda(GETCO) S/s damaged which led to bus bar protection operation on both 400kV buses at Zerda(GETCO) S/s. iv) Due to bus bar protection operation at Zerda(GETCO), 400 KV Kankroli-Zerda (PG) Ckt-1 & 2 tripped from Zerda(GETCO) end. At the same time, DT received at Kankroli(PG) end, on which 400 KV Kankroli-Zerda (PG) Ckt-1 & 2 tripped from Kankroli(PG) end. v) As per DR of Kankroli(PG) end of 400 KV Kankroli-Zerda (PG) Ckt-2, Y-N phase to earth fault is observed with fault current of Iy=1.3kA. DT received at Kankroli(PG) end. vi) As per PMU at Kankroli(PG), Y-N phase to earth fault followed by R-Y phase to phase fault with fault clearing time of 80 msec and 80 msec is observed. Time difference between both fault signatures is approximately 2 seconds.</p> <p>vii) From SCADA SOE and PMU plot it can be confirmed that 400 KV Kankroli-Zerda (PG) Ckt-2 tripped on Y-N phase to earth fault and 400 KV Kankroli-Zerda (PG) Ckt-1 tripped on R-Y phase to phase fault.</p> <p>viii) As per SCADA, no change in demand of Rajasthan control area.</p>	<p>1) 400 KV Kankroli-Zerda (PG) Ckt-1</p> <p>2) 400 KV Kankroli-Zerda (PG) Ckt-2</p>
8	GI-2	Uttar Pradesh	21-08-2024 09:02	21-08-2024 10:00	00:58	0	127	0.000	0.198	56428	64073	<p>i) During antecedent condition, 400/220kV 315 MVA ICT-1, 400/220kV 500 MVA ICT-4, 220kV Muzaffarnagar-Shamli (UP) Ckt, 220kV Muzaffarnagar-Khatauli (UP) Ckt, 220kV Muzaffarnagar-Badli (UP) Ckt & 220/132kV 160MVA ICT-4 were connected to 220kV bus-1 and 400/220 kv 315 MVA ICT-2, 400/220 kv 315 MVA ICT-3, 220kV Muzaffarnagar-Charla (UP) Ckt, 220kV Muzaffarnagar-Jansath (UP) Ckt & 220/132kV 160MVA ICT-5 were connected to 220kV bus-2 at Muzaffarnagar(UP) S/s. Bus coupler of 220kV bus-1 and 220kV bus-2 was in ON condition and 220kV Muzaffarnagar-Nara (UP) Ckt was not in service (under shutdown) during the tripping event. ii) As reported, at 09:02 hrs, R-N phase to earth fault occurred on 220kV Muzaffarnagar-Badli kalin (UP) Ckt with fault distance of 3.8km from Muzaffarnagar(UP) end and 20.4km from Badli kalin(UP) end. Fault was sensed in zone-1 from both ends.iii) On this fault 220kV Muzaffarnagar-Badli kalin (UP) Ckt tripped from Badli kalin end on zone-1 distance protection on R-N fault. During fault clearing process at Muzaffarnagar(UP) end, R-phase CB interrupting chamber got damaged which resulted into continuation of sparking between R phase male contact and R phase dropper wire of breaker. The circuit breaker operated mechanically (auxiliary contacts operated properly) and thus breaker status reflected as OPEN, iv) As breaker didn't open completely (sparking between R phase male contact and R phase dropper wire of breaker was still there), fault was not cleared yet. Due to continuous fault feeding 400/220kV 315MVA ICT-1 & 2 and 400/220kV 500 MVA ICT-4 tripped on directional earth fault protection and 400/220kV 315 MVA ICT-3 tripped on back up impedance protection. 220 kv Charla line, 220 kv Jansath line and 220 kv shamli line tripped from remote ends on zone-3 distance protection (It is confirmed from respective DRs also). v) Ideally, this fault would have been cleared by LBB protection of Badli kalin bay, but as CB status changed from ON to OFF due to proper operation of breaker auxiliary contacts, LBB initiation got reset. vi) Further, as reported, bus bar protection of 220kV bus-1 at Muzaffarnagar(UP) also operated after 1 second of fault starting time due to persisting differential current. vii) As per DR of bus bar protection at Muzaffarnagar(UP), busbar protection operated on 220kV bus-1 after 1.05 second of fault starting time. On this, all remaining elements also tripped which were connected to 220kV bus-1 i.e. 220kV Muzaffarnagar-Khatauli (UP) Ckt.</p>	<p>1) 400/220 kv 315 MVA ICT 1 at Muzaffarnagar(UP)</p> <p>2) 400/220 kv 315 MVA ICT 2 at Muzaffarnagar(UP)</p> <p>3) 400/220 kv 315 MVA ICT 3 at Muzaffarnagar(UP)</p> <p>4) 400/220 kv 500 MVA ICT 4 at Muzaffarnagar(UP)</p> <p>5) 220kV Muzaffarnagar-Charla (UP) Ckt</p> <p>6) 220kV Muzaffarnagar-Jansath (UP) Ckt</p> <p>7) 220kV Muzaffarnagar-Shamli (UP) Ckt</p> <p>8) 220kV Muzaffarnagar-Khatauli (UP) Ckt</p>
9	GD-1	Punjab	22-08-2024 20:33	22-08-2024 21:30	00:57	0	290	0.000	0.395	55995	73467	<p>i) 220kV Laitokalan(PS) has double main bus arrangement at 220kV side.</p> <p>ii) During antecedent condition, incoming power at Laitokalan(PS) S/s from Ludhiana(PG) S/s through 220 KV Ludhiana(PG)-Laitokalan(PS) (PSTCL) Ckt-1 & 2 were approx. 210 MW & 230 MW respectively. At 220kV level, all elements were connected to 220kV bus-1 at Laitokalan(PS) S/s. 220kV bus-2 was not in service due to ongoing augmentation work on 220kV bus-2 at Laitokalan(PS) S/s.</p> <p>iii) As reported, at 20:33 hrs, R-N phase to earth fault occurred on 220 KV Ludhiana(PG)-Laitokalan(PS) (PSTCL) Ckt-1 at a distance of 1.5km from Laitokalan(PS) end and 0.76km from Ludhiana(PG) end with fault current of I=30.1kA & I=12.97kA from Ludhiana(PG) and Laitokalan(PS) end respectively.</p> <p>iv) On this fault, 220 KV Ludhiana(PG)-Laitokalan(PS) (PSTCL) Ckt-1 tripped from Ludhiana(PG) on zone-1 distance protection (as per DR), but R-phase pole of CB couldn't open from Laitokalan(PS) end.</p> <p>v) Due to failure of CB opening, LBB of 220 KV Ludhiana(PG)-Laitokalan(PS) (PSTCL) Ckt-1 bay operated which led to tripping of all elements connected to 220kV bus-1 at Laitokalan(PS) S/s i.e. 220kV lines from Laitokalan(PS) to Ludhiana Ckt-2, Ferozpur Road (PS) Ckt, Hambran (PS) Ckt, Jagraon (PS) Ckt, 220/66 kv 160 MVA ICT-1, 220/66 kv 100 MVA ICT-4 & 5.</p> <p>vi) As per PMU at Ludhiana(PG), R-N phase to earth fault with delayed fault clearing time of 320msec is observed.</p> <p>vii) Due to tripping of all elements at 220kV level on LBB at Laitokalan(PS) S/s, blackout occurred at 220kV Laitokalan(PS) S/s.</p> <p>viii) As per SCADA, change in demand of approx. 290 MW in Punjab control area.</p>	<p>1) 220 KV Ludhiana(PG)-Laitokalan(PS) (PSTCL) Ckt-1</p> <p>2) 220 KV Ludhiana(PG)-Laitokalan(PS) (PSTCL) Ckt-2</p> <p>3) 220 kv Laiton kalin – Ferozpur Road (PS) Ckt</p> <p>4) 220 kv Laiton kalin – Hambran (PS) Ckt</p> <p>5) 220 kv Laiton kalin – Jagraon (PS) Ckt</p> <p>6) 220/66 kv 160 MVA ICT-1 at Laitokalan(PS)</p> <p>7) 220/66 kv 100 MVA ICT-4 at Laitokalan(PS)</p> <p>8) 220/66 kv 100 MVA ICT-5 at Laitokalan(PS)</p>
10	GI-2	Uttar Pradesh	25-08-2024 04:25	25-08-2024 05:51	01:26	220	0	0.488	0.000	45060	63093	<p>i) During antecedent condition, 400 kv Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt, 110 MW Unit-1 & 4 at Vishnuprayag(UP) were connected to 400kV Bus-1 at Vishnuprayag(UP) and 400 kv Alaknanda(UP)-Vishnuprayag(UP) (UP) Ckt, 110 MW Unit-2 & 3 at Vishnuprayag(UP) were connected to 400kV Bus-2 at Vishnuprayag(UP). 400 kv Vishnuprayag (UP)- Muzaffarnagar(UP) (UP) Ckt, 400kV Alaknanda-Muzaffarnagar ckt and 400kV Vishnuprayag-Alaknanda ckt were carrying ~343 MW, ~462 MW & 86 MW respectively.ii) As reported, at 04:25 hrs, 400 kv Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt tripped on Y-B phase to phase fault. Fault occurred due to tree falling on the line between tower location no. 102 & 103, tower base at location no. 102 also got damaged due to land slide. Fault distance was ~223km (~79%) from Muzaffarnagar end.iii) Further after ~50msec, 400kV bus coupler at Vishnuprayag HEP tripped on over current stage-2 (OT) protection operation. iv) With the tripping of 400kV Bus coupler at Vishnuprayag HEP, 110 MW Unit-1 & 4 at Vishnuprayag HEP also tripped due to loss evacuation path. v) As per PMU at Muzaffarnagar(UP) and line DR files, Y-B phase to phase which cleared within 80msec is observed. Fault was in z-1 from Vishnuprayag end. vi) As per SCADA, generation loss of ~220MW occurred at 110 MW Unit-1 & 4 at Vishnuprayag HEP due to tripping of 110 MW Unit-1 & 4. vii) As tower base at location no. 102 of 400 kv Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt damaged during the event, line was taken under emergency shutdown after the event. Unit-1&4 were revived by 06:00 hrs and taken into service through 400kV Bus-2. Generation evacuated through 400kV Vishnuprayag-Alaknanda ckt & 400kV Alaknanda-Muzaffarnagar ckt path. viii) 400 kv Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt was revived at 17:33 hrs on 27.08.2024. 400kV Bus-1 was also taken into service with the revival of 400 kv Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt.</p>	<p>1) 400 kv Muzaffarnagar(UP)-Vishnuprayag(UP) (UP) Ckt</p> <p>2) 110 MW Vishnuprayag HPS - UNIT 1</p> <p>3) 110 MW Vishnuprayag HPS - UNIT 4</p>

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Sl No.	Category of Grid Event (GI for GI2/GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HEMM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load in 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)		
11	GD-1	Haryana	26-08-2024 22:58	26-08-2024 23:15	00:17	0	350	0.000	0.543	48808	64478	<p>i) 220kV Rajokheri(HV) & 220kV Shahbad(HV) S/s have double main bus arrangement at 220kV side.ii) During antecedent condition, incoming power at Rajokheri(HV) S/s through 220 KV Abdullapur(PG)-Rajokheri (HV) (HVPNL) D/C was approx. 115 MW and outgoing power from Rajokheri(HV) through 220 KV Shahbad-Rajokheri(HV)(HVPNL) D/C was approx. 90 MW. Loading of 220 KV Shahbad-Joria(HV)(HVPNL) D/C and 220 KV Shahbad-Durla(HV)(HVPNL) D/C were approx. 100 MW and 75 MW feeding to Shahbad(HV) and Durla(HV) respectively.iii) As reported, at 22:58 hrs, due to inclement weather conditions, Y-B phase to phase occurred on 220 KV Shahbad-Rajokheri(HV)(HVPNL) Ckt-1 & 220 KV Abdullapur(PG)-Rajokheri (HV) (HVPNL) Ckt-1.iv) As reported, 220 KV Abdullapur(PG)-Rajokheri (HV) (HVPNL) D/C tripped only from Abdullapur(PG) end not from Rajokheri(HV) end. 220 KV Shahbad-Rajokheri(HV)(HVPNL) Ckt-1 tripped on zone-1 distance protection on Y-B-G double phase to ground fault with fault distance of 29km and fault current of I_r=5.79kA & I_b=5.39kA from Rajokheri(HV) end. 220 KV Shahbad-Rajokheri(HV)(HVPNL) Ckt-2 & 220 KV Tepla-Rajokheri(HV)(HVPNL) Ckt-2 tripped on direction earth fault from Rajokheri(HV) end. 220 KV Tepla-Rajokheri(HV)(HVPNL) Ckt-1 tripped on zone-3 distance protection on Y-B phase to phase fault from Rajokheri(HV) end (details regarding trippings at Shahbad(HV) S/s is yet to be received). v) As per PMU at Abdullapur(PG), Y-B phase to phase fault converted into R-Y-B three phase fault with delayed fault clearing time of 2040msec is observed.vi) Due to tripping of all 220kV lines at Rajokheri(HV) & Shahbad(HV), both sub-stations lost their connectivity from Grid which led to blackout of 220kV Rajokheri(HV) S/s & 220kV Shahbad(HV) S/s.vii) As per SCADA, change in demand of approx. 350 MW in Haryana control area.</p>	<p>1) 220 KV Abdullapur(PG)-Rajokheri (HV) (HVPNL) Ckt-1 2) 220 KV Abdullapur(PG)-Rajokheri (HV) (HVPNL) Ckt-2 3) 220 KV Shahbad-Rajokheri(HV)(HVPNL) Ckt-1 4) 220 KV Shahbad-Rajokheri(HV)(HVPNL) Ckt-2 5) 220 KV Tepla-Rajokheri(HV)(HVPNL) Ckt-1 6) 220 KV Tepla-Rajokheri(HV)(HVPNL) Ckt-2 7) 220 KV Shahbad-Durla(HV)(HVPNL) Ckt-1 8) 220 KV Shahbad-Durla(HV)(HVPNL) Ckt-2 9) 220 KV Shahbad-Joria(HV)(HVPNL) Ckt-1 10) 220 KV Shahbad-Joria(HV)(HVPNL) Ckt-2</p>
12	GI-1	Jammu and Kashmir	26-08-2024 13:53	26-08-2024 17:18	03:25	0	180	0.000	0.247	57013	72984	<p>i) 220/132kV Ziankote S/s have two bus at 220kV side i.e., main bus & reserve bus. 220kV Amargarh-Ziankote ckt-1&2 are on the same tower (D/C tower) and line length is ~21.4km. ii) During antecedent condition, 220kV Amargarh(INDIGRID) –Ziankote(JK) D/C was carrying 104 MW each and feeding Ziankote load. iii) As reported, at 13:53 hrs, 220 KV Amargarh(INDIGRID)-Ziankote(JK) (PDD JK) Ckt-2 tripped from both ends on R-Y phase to phase fault with fault distance of 6.6km and fault current of I_r=2.15kA & I_b=2.37kA from Ziankote(JK) end. 220 KV Amargarh(INDIGRID)-Ziankote(JK) (PDD JK) Ckt-1 tripped only from Amargarh(INDIGRID) end on the same R-Y phase to phase fault (Exact reason of fault is yet to be received). iv) As per DR of Amargarh(INDIGRID) end of 220 KV Amargarh (INDIGRID)-Ziankote(JK) (PDD JK) Ckt-1, R-Y phase to phase fault is observed in zone-2 with fault current of I_r=2.5kA & I_b=2.1kA. v) As per DR of Amargarh(INDIGRID) end of 220 KV Amargarh (INDIGRID)-Ziankote(JK) (PDD JK) Ckt-2, R-Y phase to phase fault is observed in zone-1 with fault current of I_r=5.2kA & I_b=4.9kA. vi) As confirmed by Amargarh(INDIGRID), in view of non-availability of carrier communication and A/R scheme at Ziankote end, A/R has been kept disabled at Amargarh end and time delay of 2-2 also kept as instantaneous at Amargarh end. vii) As per PMU at Amargarh(PG), R-Y phase to phase fault which cleared within 120 msec is observed. viii) As per SCADA, change in demand of approx. 180MW is observed in J&K control area.</p>	<p>1) 220 KV Amargarh (INDIGRID)-Ziankote(JK) (PDD JK) Ckt-1 2) 220 KV Amargarh (INDIGRID)-Ziankote(JK) (PDD JK) Ckt-2</p>
13	GI-2	Delhi	31-08-2024 16:40	31-08-2024 18:06	01:26	0	105	0.000	0.156	53755	67125	<p>i) 400kV Bawana(DTL) S/s has one and half breaker bus arrangement at 400kV level. ii) During antecedent condition, incoming power at Bawana(DTL) through 400 KV Bawana-Mundka (DV) Ckt-1 & 2 were approx. 514MW & 503MW respectively and outgoing power from Bawana(DTL) to Maharani Bagh(PG) through 400 KV Bawana(DV)-Maharani Bagh(PG) (DTL) Ckt-1 & 2 were approx. 294 MW & 294 MW. iii) As reported, at 16:40 hrs, 400 KV Bawana(DV)-Maharani Bagh(PG) (DTL) Ckt-1 tripped on R-Y phase to phase fault with fault distance of 4.71km and with fault current of I_r=31.38kA & I_b=29.27kA from Bawana end (Reason of fault is yet to be received). 400 KV Bawana(DV)-Maharani Bagh(PG) (DTL) Ckt-1 tripped on zone-1 distance protection from Bawana(DTL) end. iv) As per DR of Bawana(DTL) end of 400 KV Bawana(DV)-Maharani Bagh(PG) (DTL) Ckt-1, R-Y phase to phase fault is observed with fault current of I_r=31.3kA, I_b=29.3kA and line tripped on zone-1 distance protection. v) As reported, the same fault sensed in zone-1 from Mundka(DTL) end and 400 KV Bawana-Mundka (DV) Ckt-1 & 2 tripped on zone-1 distance protection from Mundka(DTL) end. vi) As per PMU at Maharani Bagh(PG), R-Y phase to phase fault with fault clearing time of 120msec is observed. vii) As per SCADA, change in demand of approx. 105MW is observed in Delhi control area. viii) As reported by SLDC Delhi, the case of over reach of GE D50 relays at Mundka(DTL) S/s is already forwarded to GE company for analysis and necessary corrective recommendations.</p>	<p>1) 400 KV Bawana(DV)-Maharani Bagh(PG) (DTL) Ckt-1 2) 400 KV Bawana-Mundka (DV) Ckt-1 3) 400 KV Bawana-Mundka (DV) Ckt-2</p>

Details of Grid Events during the Month of Aug 2024 in Western Region



Sl No.	Category of Grid Event (GI for 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	WR	01-08-2024 16:41	02-08-2024 01:50	09:09	230	-	0.34%	-	68094	52678	At 16:41 Hrs / 01-08-2024, 220 kV Bhuj-Nanavalka tripped on R-E fault after auto recloser attempt. It is seen that Auto recloser attempt taken from Bhuj End only and three phase trip issued at Nanavalka end for single phase fault. Generation loss of 230 MW occurred at Nanavalka (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Nanavalka
2	GD-1	WR	02-08-2024 03:47	02-08-2024 06:53	03:06	238	-	0.36%	-	66022	47652	At 03:47 Hrs / 02-08-2024, 220 kV Bhuj-Naranpar tripped on R-E fault at Bhuj end only. Generation loss of 238 MW occurred at Naranpar (GIWEL-3) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Naranpar
3	GD-1	WR	06-08-2024 09:36	06-08-2024 16:00	06:24	300	-	0.43%	-	69367	52967	At 09:36 Hrs / 06-08-2024, 220 kV Bhuj II-Nakhatrana tripped on R-E fault after unsuccessful Auto recloser attempt. At the time of patrolling, R Phase disc insulator failure observed at location 45. Generation loss of 300 MW occurred at Nakhatrana and Dedhiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Nakhatrana
4	GD-1	WR	07-08-2024 13:59	07-08-2024 20:53	06:54	436	-	0.66%	-	66386	51173	At 13:59 Hrs / 07-08-2024, 220kV Bhuj-Ratadiya-1 tripped on Y-E fault. Simultaneously, 220kV Bhuj-Ratadiya-2 tripped on under voltage protection operation. At the time of patrolling, Y phase jumper found open at location 165. Generation loss of 436 MW occurred at Ratadiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220kV Bhuj-Ratadiya-1&2
5	GI-2	WR	08-08-2024 09:14	08-08-2024 11:48	02:34	560	-	0.81%	-	68938	56200	At 09:14 Hrs / 08-08-2024, 400 / 33 kV KSTPS-Tie Transformer-4 tripped from LV side on Restricted Earth Fault, smoke observed in LV side terminal box. Due to non opening of R phase breaker at 400 kV side, LBB operated resulting in tripping of 400 kV KSTPS-Bus-2 (Double Main and Transfer Bus) and all connected elements. Generation loss of 560 MW occurred at Korba-NTPC Thermal Power Plant due to the event.	Tripping of following Elements: 1. 400 / 33 kV KSTPS-Tie Transformer-4 2. 400 kV KSTPS-Bus-2 3. 400kV KSTPS-Bhilai-2 4. KSTPS-Unit-1,2&3 (210 MW occurred at)
6	GD-1	WR	11-08-2024 11:17	11-08-2024 13:40	02:23	131	-	0.21%	-	62076	53414	At 11:17 Hrs / 11-08-2024, 220 kV Bhuj II-Morjar (Srijan) tripped on Zone-2 distance protection operation on Y-E fault. During inspection it was found that, Y phase voltage was not seen by relay. The same was corrected and line was charged. PMU data stopped immediately after the line tripping indicating failure of back supply or absence of backup supply at station. Generation loss of 131 MW occurred at Morjar (Srijan) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Morjar (Srijan)
7	GI-2	WR	12-08-2024 05:09	12-08-2024 09:00	03:51	-	70.06	-	0.14%	62436	50737	At 05:09 Hrs / 12-08-2024, 400/220 kV Dhule(MH)-ICT-3 tripped on differential protection operation due to blasting of Y phase bushing. 400/220 kV Dhule(MH)-ICT-1 tripped on Backup to Earth Fault protection operation. 400 kV Dhule(MH)-Khandwa-1 tripped on Over voltage stage-1 protection operation which was a maloperation. 400 kV Dhule(MH)-Dhule(BDTCL)-2 tripped on Z-4 protection operation at Dhule(MH) end and Z-2 protection operation at Dhule(BDTCL) end. 400 kV Dhule(MH)-SSP-2 tripped on Z-4 protection operation at Dhule(MH) end and Z-1 protection operation at SSP end (tripping on Z-1 at SSP) which was a maloperation. 400 kV Dhule(MH)-Bableswhwar-2 tripped on Z-2 protection operation at Bableswhwar end. Ideally the fault should have been cleared on LBB protection operation, but LBB protection not operated. Load loss of 70.06 MW occurred at occurred due to LTS stage-1 and LTS stage-2 operation due to 400/220 kV Dhule(MH)-ICT-1&3.	Tripping of following Elements: 1. 400/220 kV Dhule(MH)-ICT-3 2. 400/220 kV Dhule(MH)-ICT-1 3. 400 kV Dhule(MH)-Khandwa-1 4. 400 kV Dhule(MH)-Dhule(BDTCL)-2 5. 400 kV Dhule(MH)-SSP-2 6. 400 kV Dhule(MH)-Bableswhwar-2
8	GD-1	WR	12-08-2024 21:49	13-08-2024 03:22	05:33	-	-	-	-	71388	55247	At 21:49 Hrs / 12-08-2024, 220 kV STT-Mahape and 220 kV STT-TIFIPL tripped on differential protection operation due to R phase lightning arrester of 220 kV STT-Mahape burst at STT substation. Tripping of 220 kV STT-TIFIPL for a fault in 220 kV STT-Mahape is undesirable. No load loss occurred due to the event.	Tripping of following Elements: 1. 220 kV STT-Mahape 2. 220 kV STT-TIFIPL
9	GD-1	WR	17-08-2024 11:42	17-08-2024 19:54	08:12	187	-	0.26%	-	71293	60072	At 11:42 Hrs / 07-08-2024, 220 kV Jamkhambaliya-Khakharda tripped on R-E fault. During patrolling R phase insulator failure was observed. Generation loss of 187 MW occurred at Khakharda (Apraava) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Jamkhambaliya-Khakharda
10	GD-1	WR	19-08-2024 02:24	19-08-2024 09:02	06:38	47	-	0.07%	-	67243	53511	At 02:24 Hrs / 19-08-2024, 220 kV Bhuj II-Nakhatrana tripped on Y-E fault after unsuccessful autoreclose attempt. During patrolling Y phase insulator failure was observed at Tower location 51. Generation loss of 47 MW occurred at Nakhatrana and Dedhiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj II-Nakhatrana
11	GD-1	WR	19-08-2024 12:24	20-08-2024 07:42	19:18	9.6	-	0.01%	-	67063	55507	At 12:24 Hrs / 19-08-2024, 220 kV Jamkhambaliya-Sidhpur tripped on Y-E fault, 3 phase tripped for fault in 1 phase which is undesirable, also Auto Recloser block signal was active. During patrolling Y phase insulator failure was observed at Tower location 59. Generation loss of 9.6 MW occurred at Sidhpur (Torrent) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Jamkhambaliya-Sidhpur
12	GI-2	WR	19-08-2024 23:48	20-08-2024 01:16	01:28	-	-	-	-	66674	53297	At 23:48 Hrs / 19-08-2024, Y phase CT of 400 kV Kansari-Bus Coupler towards 400 kV Kansari-Bus-2 side failed, resulting in Bus Bar protection operation and tripping of 400 kV Kansari-Bus-2 and all connected elements. After 2 seconds the smoke from failed CT reached 400 kV Kansari-Bus-1 resulting in Bus Bar protection operation and tripping of 400 kV Kansari-Bus-1 and all connected elements. 400 kV Kansari-Bus-1: 400/220 kV Kansari-ICT-3&4, 400 kV Kansari-Soja-1, 400 kV Kansari-Banasankantha, 400 kV Kansari-Charanka-1, 400 kV Kansari-Kankroli-1 and 400 kV Kansari-B/R-1 400 kV Kansari-Bus-2: 400 kV Kansari-Charanka-2, 400/220 kV Kansari-ICT-1&2, 400 kV Kansari-Kankroli-2 (Bypassed at Bhinamal), 400 kV Kansari-B/R-2. Prior to the trippings, 400 kV Kansari-Soja-1 was under outage for Voltage Regulation. 400 kV Kansari side became dead and 220 kV Kansari was intact. No generation / load loss occurred due to the event.	Tripping of following Elements: 1. 400 kV Kansari-Bus Coupler 2. 400 kV Kansari-Bus-1&2 3. 400 kV Kansari-Charanka-1&2 4. 400 kV Kansari-Banasankantha 5. 400 kV Kansari-Veloda 6. 400 kV Kansari-Soja-1 7. 400 kV Kansari-Kankroli-1 8. 400 kV Kansari-Kankroli-2 (Bypassed at Bhinamal) 9. 400/220 kV Kansari-ICT-1,2,3&4 (315 MVA) 10. 400 kV Kansari-B/R-1&2

Details of Grid Events during the Month of Aug 2024 in Western 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)		
						13	GD-1	WR	24-08-2024 03:54	24-08-2024 08:02	04:08		
14	GD-1	WR	27-08-2024 01:51	27-08-2024 21:32	19:41	240	-	0.40%	-	60383	43432	At 01:51 Hrs / 27-08-2024, 220 kV Chugger-Bhuj-II-S/c tripped on R-E fault. During patrolling, R phase Jumper found open at Tower location 07 along with failure of insulator. Generation loss of 240 MW occurred at Chugger (Sitac) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Chugger-Bhuj-II-S/c
15	GD-1	WR	27-08-2024 16:58	27-08-2024 20:47	03:49	148	-	0.25%	-	60383	43432	At 16:58 Hrs / 27-08-2024, 220 kV Bhuj-Baranda-S/c tripped on B-E fault. Generation loss of 148 MW occurred at Baranda (ASIPL) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Baranda
16	GD-1	WR	29-08-2024 18:52	31-08-2024 13:39	42:47	69	-	0.11%	-	64777	55713	At 18:52 Hrs / 29-08-2024, 220 kV Bhuj-Naranpar tripped on Y-E fault after auto recloser attempt. At the time of patrolling, Y Phase disc insulator failure observed at location 45. Generation loss of 69 MW occurred at Naranpar (GIWEL-3) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Naranpar
17	GD-1	WR	30-08-2024 03:26	30-08-2024 05:31	02:05	19	-	0.03%	-	59121	48568	At 03:26 Hrs / 30-08-2024, 220 kV Bhuj-Kotda Madh-S/c tripped on B-E fault due to fault occurred during auto recloser reclaim time. Generation loss of 19 MW occurred at Kotda Madh (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Kotda Madh
18	GD-1	WR	30-08-2024 05:53	30-08-2024 14:00	08:07	98	-	0.16%	-	60172	51511	At 05:53 Hrs / 30-08-2024, 220 kV Bhuj-Dayapar-1&2 tripped due to blast in capacitor banks at Dayapar. Blast was due to grounding of PSS DC cable in Capacitor control panel, which resulting in burning of control panel of capacitor banks-1&2, meters, MCCBs. Simultaneously, feeder-8 conductor also fell down within the plant. Generation loss of 98 MW occurred at Dayapar (INOX) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Dayapar-1&2
19	GD-1	WR	30-08-2024 06:34	30-08-2024 13:11	06:37	37.8	-	0.06%	-	61894	53483	At 06:34 Hrs / 30-08-2024, 220 kV Bhuj-Kotda Madh-S/c tripped on B-E fault after auto recloser attempt. During patrolling rope was found hanging on B-phase conductor. Generation loss of 37.8 MW occurred at Kotda Madh (Netra) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Kotda Madh
20	GD-1	WR	30-08-2024 11:40	01-09-2024 10:32	46:52	48	-	0.08%	-	61489	53100	At 11:40 Hrs / 30-08-2024, 220 kV Chugger-Bhuj-II tripped on B-E fault. At the time of patrolling, insulator failure observed at tower location 147 and 206. Generation loss of 48 MW occurred at Chugger (Sitac) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Chugger-Bhuj-II
21	GD-1	WR	31-08-2024 10:35	31-08-2024 11:08	00:33	-	219	-	0.35%	69146	62278	At 10:35 Hrs / 31-08-2024, 220 kV Nalaspapara S/s became dead due to tripping of all elements on busbar protection operation. During the event, switchyard works were going on. 220 kV Palgar-Nalaspapara and 220 kV Boisar-Nalaspapara tripped from Nalaspapara end only, DT was not sent to remote ends which was undesirable. Load loss of 219 MW occurred at Nalaspapara Substation due to the event.	Tripping of following Elements: 1. 220 kV Palgar-Nalaspapara 2. 220 kV Boisar-Nalaspapara 3. 220 kV Nalaspapara-ICT-1,2&3

Details of Grid Events during the Month of Aug 2024 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 (HHEMM)	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	04-08-2024 11:57	04-08-2024 14:20	02:23	0	0	0.00%	0.0	52515.27	52088.8	Complete Outage of 230kV/110kV Kayathar SS : The triggering incident was Y-N fault in 230kV Kayathar Sangneri Line-1. At Kayathar end, at the time of lockout, Y-pole breaker failed to open at Kayathar end causing LBB to operate. Immediately, LBB operated and all lines connected to the 230kV Kayathar Bus tripped. This led to complete outage of 230kV/110kV Kayathar SS of TANTRANSKO.	230KV-KAYATHAR(TN)-TIRUNELVELI-1, 230KV-KAYATHAR(TN)-SANGANERI-1, KAYATHAR(TN) - 230KV
2	GD - 1	KARNATAKA	05-08-2024 09:41	05-08-2024 13:06	03:25	120	62	0.24%	0.11%	49225.06	55827.5	Complete Outage of 220kV/66kV Hiriyur_KA SS and 220kV Enercon and 220kV Azure SS: 220kV Enercon and 220kV Azure SS are being radially connected to 220kV/66kV Hiriyur_KA SS. As per the reports submitted, the triggering incident was R-phase CT flashover in 66kV Bus sectionaliser in 220kV/66kV Hiriyur_KA SS which subsequently became an RYB-N fault. At the same time, due to DC supply failure, CTDs of all lines and Transformers tripped causing complete outage of 220kV/66kV Hiriyur_KA SS which inturn led to complete outage of 220kV Enercon and 220kV Azure SS.	220KV-HIRIYUR-HIRIYUR_KAR-1, 220KV-HIRIYUR-HIRIYUR_KAR-2, HIRIYUR_KAR - 220KV - Bus 1, HIRIYUR_KAR - 220KV - Bus 2, AZURE_HIRIYUR - 220KV - Bus 1, ENERCON_HIRIYUR - 220KV - Bus 1, 220KV-HIRIYUR_KAR-TALLAK-1, 220KV-HIRIYUR_KAR-MADHUGIRI-1
3	GD - 1	KARNATAKA	07-08-2024 09:15	07-08-2024 10:15	01:00	62	120	0.14%	0.24%	42925.5	49250.44	Complete Outage of 220kV/66kV Hiriyur_KA SS and 220kV Enercon and 220kV Azure SS: As per the reports submitted, DC source failure occurred at the station due to 220V battery charger issue, causing the DCMCCB to trip. As a result, all 220kV line breakers and the 100MVA power transformer breakers tripped on CTD at 220kV/66kV Hiriyur_KA SS. This led to complete outage of 220kV/66kV Hiriyur_KA SS.	220KV-HIRIYUR-HIRIYUR_KAR-1, 220KV-HIRIYUR-HIRIYUR_KAR-2, ENERCON_HIRIYUR - 220KV, 220KV-HIRIYUR_KAR-MADHUGIRI-1, 220KV-HIRIYUR_KAR-AZURE_HIRIYUR-1, 220KV-HIRIYUR_KAR-TALLAK-1
4	GD - 1	TAMILNADU	10-08-2024 14:49	10-08-2024 15:30	00:41	85	0	0.17%	0.00%	49288.07	51419.11	Multiple trippings at 220kV/33kV Mytrah and Complete Outage of 230kV/33kV JSW_Vilathikulam, and 230kV/33kV JSW_Savalperi: The triggering incident was a Y-N fault caused by a bird strike on the 33kV bay BCU311 LA of a 33kV feeder at Mytrah. At Mytrah , 220kV/33kV PTR-1&2 tripped on Earth fault protection. At the same time, the 230kV TTGS JSW_Vilathikulam and 230kV TTGS JSW_Savalperi lines tripped on maloperation of under voltage protection. Tripping of these lines led to complete outage of 230kV/33kV JSW_Vilathikulam, and 230kV/33kV JSW_Savalperi.	230KV-TTGS-JSW_Vilathikulam-1, 230KV/33KV MYTRAH-PT-1, 230KV/33KV MYTRAH-PT-2, JSW_Savalperi - 230KV
5	GD - 1	TAMILNADU	13-08-2024 13:16	13-08-2024 14:32	01:16	0	0	0.00%	0.00%	48841.84	52739.68	Complete Outage of 230kV/33kV GRT Solar Station: As per the reports submitted, the triggering incident was R-N fault in 230kV TTGS GRT line. Tripping of only connected line led to complete outage of 230kV/33kV GRT Solar Station.	230KV-TTGS-GRT-1
6	GD - 1	TAMILNADU	28-08-2024 06:23	28-08-2024 16:21	09:58	411	0	0.95%	0.00%	43169.45	48985.57	Complete Outage of 765kV NCTPS ST3 Generating Station of TANGEDCO: As per the reports submitted, the triggering incident was B-N fault near Unit-1 of 765kV NCTPS ST3. Immediately, overall differential protection operated and the Unit tripped. Simultaneously, 765kV NCPS NCTPS ST3 line-1&2 sensed the fault in zone-2 and tripped instantaneously at NCPS end. Subsequently, 765kV Ariyalur NCPS Line-2 tripped on over voltage protection at NCPS end. Tripping of both lines connected to 765kV NCTPS ST3 Generating Station resulted in Complete outage of the Generating Station.	NCTPS STG3 - UNIT 1, 765KV-NCPS-NCTPS STG3-1, 765KV-ARIYALUR-NCPS-2
7	GD - 1	KARNATAKA	28-08-2024 11:31	28-08-2024 11:52	00:21	250	300	0.45%	0.53%	55063.33	56690.25	Complete outage of 220kV/66kV Lingsugur SS, 220kV/110kV Bagewadii SS, 220kV Baluti SS, 220kV/66kV Kushtagi SS, 220kV/66kV Gangavathi SS, 220kV/66kV Kushtagi SS, 220kV/66kV Narayanpur SS, 220kV/66kV Mallat SS, 220kV/66kV Sindhanur SS of KPTCL , 220kV Almatti PH of KPCL, 220kV/33kV Fortune Five SS, 220kV/33kV Atria SS, 220kV/33kV Bagewadii_RBRK SS: During antecedent conditions, 220kV Lingapur Gangavathi Line-1&2, 220kV Nandhial Bagewadii Line-1&2 were under outage. As per the reports submitted, the triggering incident was tripping of 220kV RTPS Lingsugur Line-2. Immediately, 220kV RTPS: Mallat line, 220kV Lingasugur- Bagewadii line 1, 220kV Bagewadii Narayanpur Line-1, 220kV ADPH: Bagalkot line 1&2 tripped on over load. Tripping of all these lines resulted in complete outage of 220kV/66kV Lingsugur SS, 220kV/110kV Bagewadii SS, 220kV Baluti SS, 220kV/66kV Kushtagi SS, 220kV/66kV Gangavathi SS, 220kV/66kV Kushtagi SS, 220kV/66kV Narayanpur SS, 220kV/66kV Mallat SS, 220kV/66kV Sindhanur SS of KPTCL , 220kV Almatti PH of KPCL, 220kV/33kV Fortune Five SS, 220kV/33kV Atria SS, 220kV/33kV Bagewadii_RBRK SS.	220KV-LINGSUGUR-RTPS-1, 220KV-LINGSUGUR-RTPS-2, 220KV-LINGSUGUR-SHAHAPUR-1, 220KV-RTPS-MALAT-1, 220KV-LINGSUGUR-BASAVANA_BAGEWADI-1, 220KV-ALMATTI-BAGALKOT-1, 220KV-ALMATTI-BAGALKOT-2, 220KV-BASAVANA_BAGEWADI-NARAYANPUR-2
8	GD - 1	KARNATAKA , KERALA	28-08-2024 11:38	28-08-2024 12:09	00:31	170	433	0.31%	0.76%	55334.14	57025.34	Complete outage of 220kV/66kV Kadakola SS, 220kV/66kV Adakanahalli SS, 220kV/66kV Chamrajnagar SS, 220kV/66kV Madhuvanahalli SS, 220kV/66kV Hebbani SS, 220kV/66kV TK Halli SS of KPTCL and 220kV/66kV Kaniyampetta SS of KSEB: During antecedent conditions, 220kV TK Halli Kanakpura, 220kV Vajamangala TK Halli, and 220kV Kadakola Hootagally are in open condition. As per the reports submitted, the triggering incident was R-phase jumper failure in 220kV Mysore Kadakola Line-2. Subsequently, 220kV Mysore Kadakola Line-1 and 220kV Kaniyampetta Kunnamangalam line tripped on over loading. Tripping of all these lines led to complete outage of 220kV/66kV Kadakola SS, 220kV/66kV Adakanahalli SS, 220kV/66kV Chamrajnagar SS, 220kV/66kV Madhuvanahalli SS, 220kV/66kV Hebbani SS, 220kV/66kV TK Halli SS of KPTCL and 220kV/66kV Kaniyampetta SS of KSEB.	220KV-KANIYAMPETTA-KUNAMANGALAM-1, 220KV-KANIYAMPETTA-KUNAMANGALAM-1
9	GD - 1	KARNATAKA	28-08-2024 12:15	28-08-2024 12:29	00:14	0	0	0.00%	0.00%	53764.64	55768.72	Complete Outage of 220kV Madhuvanahalli SS, 220kV Chamrajnagar SS and 220kV Hebbani SS: Supply failure occurred at 220kV Madhuvanahalli SS, 220kV Chamrajnagar SS and 220kV Hebbani SS. Other details are awaited from KPTCL	

Details of Grid Events during the Month of Aug 2024 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 (HHEMM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
10	GD - 1	KARNATAKA	28-08-2024 13:29	28-08-2024 13:38	00:09	265	300	0.50%	0.55%	52671.58	54354.39	Complete outage of 220kV/66kV Lingsugur SS, 220kV/110kV Bagewadii SS, 220kV Baluti SS, 220kV/66kV Kushtagi SS, 220kV/66kV Gangavathi SS, 220kV/66kV Kushtagi SS, 220kV/66kV Narayanpur SS, 220kV/66kV Mallat SS, 220kV/66kV Sindhanur SS of KPTCL , 220kV Almati PH of KPCL, 220kV/33kV Fortune Five SS, 220kV/33kV Atria SS, 220kV/33kV Bagewadri_RBRK SS: During antecedent conditions, 220kV Lingapur Gangavathi Line-1&2, 220kV Nandhihal Bagewadi Line-1&2 were under outage. As per the reports submitted, the triggering incident was tripping of 220kV RTPS Lingsugur Line-2. Immediately, 220kV RTPS- Mallat line, 220kV Lingasugur- Bagewadi line 1, 220kV Bagewadi Narayanpur Line-1, 220kV ADPH: Bagalkot line 1&2 tripped on over load. Tripping of all these lines resulted in complete outage of 220kV/66kV Lingsugur SS, 220kV/110kV Bagewadii SS, 220kV Baluti SS, 220kV/66kV Kushtagi SS, 220kV/66kV Gangavathi SS, 220kV/66kV Kushtagi SS, 220kV/66kV Narayanpur SS, 220kV/66kV Mallat SS, 220kV/66kV Sindhanur SS of KPTCL , 220kV Almati PH of KPCL, 220kV/33kV Fortune Five SS, 220kV/33kV Atria SS, 220kV/33kV Bagewadri_RBRK SS.	220KV-LINGSUGUR-RTPS-1, 220KV-LINGSUGUR-RTPS-2, 220KV-LINGSUGUR-SHAHAPUR-1, 220KV-RTPS-MALAT-1, 220KV-LINGSUGUR-BASAVANA_BAGEWADI-1, 220KV-ALMATTI-BAGALKOT-1, 220KV-ALMATTI-BAGALKOT-2, 220KV-BASAVANA_BAGEWADI-NARAYANPUR-2
11	GD - 1	TELANGANA , KARNATAKA	28-08-2024 15:20	28-08-2024 16:05	00:45	117	220	0.23%	0.40%	50665.77	54752.43	Complete Outage of 220kV Raichur_KA of KPTCL of and 220kV Upper Jurala_PH of TSGENCO: During antecedent conditions, 220kV Upper Jurala_PH Jurala Line-1&2 were under outage. The triggering incident was R-N fault in 220kV Raichur RTPS Line-2. At the same time, 220kV Raichur RTPS Line-1 also tripped at RTPS end . Tripping of both lines led to loss of power evacuation at 220kV Upper Jurala_PH leading to tripping of all units on over frequency. This led to complete outage of 220kV Raichur_KA SS and 220kV Upper Jurala_PH.	220KV-JURALA-RAICHUR_KA-1, JURALA - UNIT 1, JURALA - UNIT 2, JURALA - UNIT 4, JURALA - UNIT 5, JURALA - UNIT 6, 220KV-JURALA-RAICHUR_KA-2
12	GI-1	ANDHRA PRADESH	01-08-2024 02:21	01-08-2024 03:12	00:51	0	0	0.00%	0.00%	40913.86	42281.04	Tripping of 220kV Bus-1 of 220kV VSS SWS: During DEF operation of 220kV VSS Gajuwaka Line at VSS, B-pole didn't open and this resulted in the LBB operation of 220kV Bus-1 of 220kV VSS SWS.	VIZAG_SWS - 220KV - Bus 1, 400KV/220KV GAZUWAKA-ICT-3, 220KV-VIZAG_SWS-PARAVADA-1, 220KV-VIZAG_SWS-KALPAKKA-1, 220KV-GAZUWAKA_AP-VIZAG_SWS-1
13	GI-1	ANDHRA PRADESH	01-08-2024 16:36	01-08-2024 17:49	01:13	0	0	0.00%	0.00%	49771.8	51773.56	Tripping of 220kV Bus-2 of 400kV/220kV Jammalamadugu SS: The triggering incident was R-N fault in 220kV Bus-2 of 400kV/220kV Jammalamadugu SS. 220kV Bus-2 BBP operated and all lines connected to the 220kV Bus-2 got tripped at 400kV/220kV Jammalamadugu SS.	JAMMALAMADUGU - 220KV - Bus 2, 400KV/220KV JAMMALAMADUGU-ICT-3, 220KV-JAMMALAMADUGU-ANIMALA-1, 220KV-JAMMALAMADUGU-THIRUMALAYAPALLI-1, 220KV-JAMMALAMADUGU-BETAMCHERLA-1, 220KV-JAMMALAMADUGU-PORUMAMILA-2
14	GI-2	KARNATAKA	03-08-2024 15:54	03-08-2024 16:45	00:51	0	0	0.00%	0.00%	52178.2	51692.57	Tripping of 400kV Bus-1 of 400kV/220kV Talguppa SS: While hand tripping 400kV/220kV ICT#2 at Talguppa SS, 400kV/220kV ICT#1 tripped due to suspected maloperation and 400kV/220kV ICT#3 tripped due to operation of backup of OC protection. Tripping of all the 3 ICTs resulted in the de-energisation of 400kV Bus-1 of 400kV/220kV Talguppa SS.	400KV/220KV TALGUPPA-ICT-1, 400KV/220KV TALGUPPA-ICT-3, TALGUPPA - 400KV - Bus 1
15	GI-1	ANDHRA PRADESH	06-08-2024 18:25	06-08-2024 19:13	00:48	300	0	0.69%	0.00%	43481.35	44713.53	Tripping of 220kV Bus-1 of 400kV/220kV VTPS: As per the reports submitted, Unit-5 was synchronized to the grid after completing overhaul works. Immediately after closing the GT-5 breaker, TC1 and TC2 faulty alarms were triggered, and a turbine trip command was issued, leading to Unit-5 tripping on Low Forward Power (LFP). However, GT-5 breaker did not open despite and the LBB protection was activated, tripping all breakers connected to 220kV Bus-1 of 400kV/220kV VTPS.	VTPS - 220KV - Bus 1, 220KV-VTPS-PIDUGURALLA-1, 220KV-TADIKONDA-VTPS-1, 220KV-VTPS-RENTACHINTHALA-1, 220KV-VTPS-PODILI-1, 220KV-VTPS-CHILLAKALLU-1, 220KV-KONDAPALLI-VTPS-1, 220KV-GUNADALA-VTPS-1
16	GI-2	KARNATAKA	09-08-2024 23:48	10-08-2024 03:43	03:55	0	0	0.00%	0.00%	44042.59	43726.16	Tripping of 400kV Bus-2 of 400kV/220kV UPCL: While de-synchronising UPCL Unit-2, B phase pole of the main breaker didn't open and LBB operated resulting in the de-energisation of 400kV Bus-2 of 400kV/220kV UPCL.	400KV-HEBBANAHALLI-UPCL-2, UPCL - 400KV - Bus 2
17	GI-1	KARNATAKA	13-08-2024 09:51	13-08-2024 09:52	00:01	0	144	0.00%	0.27%	47244.65	53483.46	Tripping of 220kV Bus-2 of 220kV/66kV Somanahalli SS of KPTCL: During antecedent, 220kV Somanahalli Bidadi Line-1&2 were connected to 220kV Bus-2 and bus coupler was in open condition. The triggering incident was high resistance R-N fault in 220kV Bidadi Somanahalli Line-1. At Bidadi end, line tripped on zone-2 and was holding at Somanahalli end. At the same time, 220kV Bidadi Somanahalli Line-2 tripped only at Somanahalli end on zone-4 protection. Tripping of both lines led to loss of power supply to 220kV Bus-2 at 220kV/66kV Somanahalli SS.	220KV-BIDADI-SOMANAHALLI-2, 220KV-BIDADI-SOMANAHALLI-1
18	GI-1	ANDHRA PRADESH , TELANGANA	20-08-2024 05:04	20-08-2024 06:30	01:26	0	0	0.00%	0.00%	34752.79	39930.91	Tripping of 220kV Bus-1 of 220kV/132kV Srisaillam RB of APGENCO: The triggering incident was R-N fault in 220kV Bus-2 due to jumper cut in 220kV Srisaillam RB Nsagar Line-1 at 220kV Srisaillam RB. Immediately, BBP operated and all elements connected to the 220kV Bus-2 got tripped at 220kV/132kV Srisaillam RB.	220KV-SRISAILAM_RIGHT_BANK-BILAKALAGUDUR-1, 220KV-DOMALAPENTA-SRISAILAM_RIGHT_BANK-1, 220KV-SRISAILAM_RIGHT_BANK-MARKAPUR-1, SRISAILAM_RIGHT_BANK - 220KV - Bus 2

Details of Grid Events during the Month of Aug 2024 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 (HHEMM)	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 for 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)		
19	GI-2	TELANGANA	22-08-2024 12:28	22-08-2024 14:16	01:48	0	0	0.00%	0.00%	52678.91	49995.32	Tripping of 400kV Bus-1 at 400kV Bhoopalpally Generating Station: As per the reports submitted, while tripping KTPP Unit-2 (1X600MW) due to boiler tube leakage, 52-15 CB R-pole didn't open due to mechanical problem resulting in the tripping of 400kV Bhoopalapally Bus-1 on operation of LBB protection.	BHOOPALAPALLY - 400KV - Bus 1, 400KV-BHOOPALAPALLY-WARANGAL-1
20	GI-2	KARNATAKA	22-08-2024 19:54	22-08-2024 22:20	02:26	0	0	0.00%	0.00%	48505.98	47871.3	Tripping of 400kV Bus-1 and 2 at 400kV/220kV Guttur SS of KPTCL: As per the reports submitted, the triggering incident was 400V Bus-2 BBP maloperation due to relay cable fault in 400kV/220kV Guttur ICT-2. At the same time, due to error in isolator selection, 400kV Bus-1 BBP also operated leading to tripping of all elements connected to 400kV Bus-1 and 400kV Bus-2 at 400kV/220kV Guttur SS.	GUTTUR - 400KV - Bus 1, GUTTUR - 400KV - Bus 2, 400KV-GUTTUR-HIRIYUR-2, 400KV-GUTTUR-HIRIYUR-1, 400KV-KAIGA-GUTTUR-1, 400KV-KAIGA-GUTTUR-2, 400KV-GUTTUR-BTPS-1, 400KV-DONI-GUTTUR-1, 400KV-NARENDRA-GUTTUR-2, 400KV-NARENDRA-GUTTUR-1
21	GI-2	TAMILNADU	25-08-2024 10:09	25-08-2024 13:24	03:15	0	0	0.00%	0.00%	53735.95	47779.7	Tripping of 400V Bus-2 of 400V/110kV Alamathy SS: As per the reports submitted, the triggering incident was B-phase CT failure in 400kV/110kV Alamathy ICT-1 causing Bus fault. Immediately, 400kV Bus-2 BBP operated tripping all elements connected to Bus-2. At the same time, the 400kV/110kV Alamathy ICT-6, which is connected through main breakers to both 400kV Alamathy Bus-1 and Bus-2 without a Tie bay, also tripped.	ALAMATHY - 400KV - Bus 2, 400KV/110KV ALAMATHY-ICT-1, 400KV/110KV ALAMATHY-ICT-6

Details of Grid Events during the Month of Aug 2024 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 (HHEMM)	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 for 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	Purnea	01-08-2024 15:50	01-08-2024 16:13	00:23	0	110	0.00%	0.48%	26029	22769	At 15:50 Hrs on 01.08.2024, 220/132 kV Purnea (PG) S/s became dead due to tripping of 220 kV New Purnea-Purnea D/c and 220 kV Gazole-Dalkhola D/c (Gazole-Dalkhola-Purnea link) during a fault in downstream of 132 kV Purnea (PG). Load loss of around 110 MW occurred at Purnea.	220kV New Purnea - Purnea D/C 132kV Purnea (PG)- Purnea 2,3 220 kV Gazole- Dalkhola D/C (Gazole-Dalkhola-Purnea link)
2	GD-1	Darbhanga	01-08-2024 17:59	01-08-2024 18:34	00:35	00:00	80	0.00%	0.35%	28309	22666	At 17:59 hrs on 01.08.2024, a fault struck B phase of 220kV Darbhanga (DMTCL) – Darbhanga -1 closer to BSPTCL end. Due to failure of opening of Circuit Breaker at Darbhanga end all other circuit connected to Darbhanga (BSPTCL) opened from remote end in Zone-2 time which led to total power failure at 220kV Darbhanga (BSPTCL) S/s. Total load loss of around 80 MW was reported. Power was extended through 220 kV Darbhanga – Mushari–2.	220 kV Darbhanga - Darbhanga(DMTCL)-1 220 kV Darbhanga - Darbhanga(DMTCL)-2 220kV Darbhanga - Mushari -1 220kV Darbhanga - Mushari -2
3	GD-1	Arrah	09-08-2024 19:51	09-08-2024 20:11	00:20	0	294	0.00%	1.10%	31443	26690	At 19:51 Hrs on 09.08.2024, 220 kV Bus-2 at 220/132 kV Arrah(PG) S/s tripped during bus bar stability testing of 220 kV Bus-1. This led to total power failure at Arrah S/s. Load loss of 294 MW reported at Arrah and Dumraon which was radially fed through Arrah S/s. 220 kV Bus-2 at Arrah was charged via Nadokhar lines at 20:11Hrs and power extended to Arrah and Dumraon.	220kV Arrah - Naubatpur D/C 220kV Arrah - Dumraon D/C 220 kV Bus -2 At Arrah
4	GD-1	Katapalli	29-08-2024 06:52	29-08-2024 07:43	00:51	290	70	0.97%	0.29%	29822	23796	At 06:52 Hrs on 29.08.2024, a fault struck B phase of 220 kV Katapalli-Hindalco-2. Line tripped immediately from Hindalco. However, breaker at Katapalli didn't open immediately. As LBB protection is not available at Katapalli, all lines at Katapalli tripped and total power failed at 220/132 kV Katapalli, Burla, Chiplima S/s. Hindalco also got islanded from the system. Approximate load loss of around 70 MW and generation loss of 260 MW at Burla & Chiplima HEP reported. At 07:43 Hrs power was extended through 220 kV Lapanga - Katapalli - 2.	220kV - Katapalli - Lapanga 1 & 2 220kV Katapalli- Bargarh 220 kV Katapalli - Bolangir 220 kV Katapalli - Hindalco 1 & 2 220 kV Main Bus 1 & 2 at Katapalli 132 kV Burla - Katapalli 1 & 2 132 kV chiplima - Katapalli 1 & 2 132kV Bargarh - Katapalli 1 & 2 Burla hydro generation unit 2, 3, 4, 5, 6,7 Chiplima Hydro generation unit 1 & 2

Details of Grid Events during the Month of Aug 2024 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 for 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	Renggang area of Manipur Power System	03-08-2024 08:15	03-08-2024 10:02	01:47	0	1	0.00%	0.04%	2423	2295	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam-Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 08:15 Hrs of 03-08-2024, 132 kV Loktak – Renggang line tripped. Due to tripping of this element, Renggang 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 Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 10:02 Hrs on 03-08-2024. ☐	132 kV Loktak – Renggang line
2	GD I	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	03-08-2024 14:24	03-08-2024 15:03	00:39	0	14	0.00%	0.55%	2423	2541	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System and Chapakhowa area of Assam Power system were connected with rest of NER Grid through 132 kV Along-Pasighat Line. 132 kV Rupai - Chapakhowa line was under long outage since 07:41 Hrs of 03.08.2024. At 14:24 Hrs of 03-08-2024, 132 kV Along-Pasighat Line tripped. Due to tripping of this element, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh and Chapakhowa area of Assam were isolated from NER Grid and collapsed due to no source available in these areas. Power is restored at Pasighat area by charging 132 kV Along-Pasighat line at 15:03 Hrs of 03-08-2024.	132 kV Along-Pasighat Line
3	GD I	Renggang area of Manipur Power System	04-08-2024 05:56	04-08-2024 12:29	06:33	0	1	0.00%	0.05%	2254	1958	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam-Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 05:56 Hrs of 04-08-2024, 132 kV Loktak – Renggang line tripped. Due to tripping of this element, Renggang 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 Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 12:29 Hrs on 04-08-2024.	132 kV Loktak – Renggang line
4	GD I	Udaipur area of Tripura Power System	04-08-2024 12:31	04-08-2024 12:44	00:13	0	32	0.00%	1.38%	2195	2311	Udaipur area of Tripura Power System was connected with rest of NER Grid through 132 kV Monarchak - Udaipur line. 132 kV Palatana - Udaipur line was under planned shutdown since 09:52 Hrs of 04.08.2024. At 12:31 Hrs of 04-08-2024, 132 kV Monarchak - Udaipur line tripped. Due to tripping of this element, Udaipur area of Tripura Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply is extended to Udaipur area of Tripura Power System by charging 132 kV Monarchak - Udaipur line at 12:44 Hrs on 04.08.2024.	132 kV Monarchak-Udaipur line
5	GD I	Leshka HEP of Meghalaya Power System	07-08-2024 16:30	07-08-2024 16:41	00:11	118	0	4.26%	0.00%	2768	2857	Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khliehriat D/C lines. At 16:30 Hrs of 07.08.2024, 132 kV Myntdu Leshka - Khliehriat D/C lines tripped. Due to tripping of these lines, Leshka HEP of Meghalaya Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power supply was extended to Leshka HEP of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khliehriat 1 at 16:41 hrs of 07.08.2024.	132 kV Myntdu Leshka - Khliehriat D/C lines
6	GD I	Khandong HEP of NEEPCO Power System	13-08-2024 07:18	13-08-2024 09:56	02:38	25	0	0.84%	0.00%	2977	2476	Khandong HEP and 132 kV S/S of Kopili HEP of Assam Power System were connected with connected to NER Power system via 132kV Khandong – Umrangsho Line, 132kV Khandong –Khliehriat 2 Line and 132kV Khandong –Kopili 2 Line. At 07:18 Hrs of 13.08.2024, 220/132kV 160 MVA ICT 1 & 2 at Kopili, 132kV Khandong –Umrangsho Line, 132kV Khandong – Khliehriat 2 Line and 132kV Khandong – Kopili 2 Line tripped due to which Khandong HEP of Assam Power System were isolated from NER Grid and collapsed due to loss of evacuation path. Power supply was extended to Khandong HEP by charging 132kV Khandong – Khliehriat 2 Line at 09:56 Hrs of 13.08.2024 ☐	220/132kV 160 MVA ICT 1 & 2 at Kopili, 132kV Khandong –Umrangsho Line, 132kV Khandong – Khliehriat 2 Line and 132 kV Khandong – Kopili 2 Line

Details of Grid Events during the Month of Aug 2024 in North Eastern Region



Sl No.	Category of Grid Event (GI for 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)		
7	GD I	Renggang area of Manipur Power System	13-08-2024 12:11	13-08-2024 12:44	00:33	0	1	0.00%	0.04%	2493	2554	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam-Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 12:11 Hrs of 13-08-2024, 132 kV Loktak – Renggang line tripped. Due to tripping of this element, Renggang 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 Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 12:44 Hrs on 13-08-2024. ☹️	132 kV Loktak-Renggang Line
8	GD I	Kolasib area, Bairabi S/S and Turiel Generation of Mizoram	13-08-2024 15:28	13-08-2024 17:35	02:07	54	5	2.06%	0.17%	2626	2915	Kolasib area, Bairabi S/S and Turiel Generation of Mizoram Power System were connected with rest of NER Grid through 132 kV Badarpur - Kolasib Line, 132 kV Aizawl - Kolasib Line and 132 kV Turiel-Kolasib Line. At 15:28 Hrs of 13-08-2024, 132 kV Badarpur - Kolasib Line, 132 kV Aizawl - Kolasib Line and 132 kV Turiel-Kolasib Line tripped. Due to tripping of these elements, Kolasib area, Bairabi S/S and Turiel Generation of Mizoram Power System were isolated from NER Grid and collapsed due to load generation mismatch. Power was extended to Kolasib area, Bairabi S/S of Mizoram Power System by charging 132 kV Badarpur-Kolasib Line at 17:35 Hrs of 13.08.2024.	132 kV Badarpur - Kolasib Line, 132 kV Aizawl - Kolasib Line and 132 kV Turiel-Kolasib Line
9	GD I	Renggang area of Manipur Power System	14-08-2024 09:30	14-08-2024 10:52	01:22	0	4	0.00%	0.15%	2804	2676	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam-Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 09:30 Hrs of 14-08-2024, 132 kV Loktak – Renggang line tripped. Due to tripping of this element, Renggang area of Manipur Power System was isolated from NER Grid. Power supply was extended to Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 10:52 Hrs on 14-08-2024.	132 kV Loktak-Renggang line
10	GD I	Baramura area of Tripura power system	14-08-2024 11:20	14-08-2024 11:40	00:20	0	12	0.00%	0.43%	2531	2791	Baramura area of Tripura Power System was connected with rest of NER Grid through 132 kV Baramura-Gamaitila line and 132 kV Baramura-Jirania line. At 11:20 Hrs of 14-08-2024, 132 kV Baramura-Gamaitila line and 132 kV Baramura-Jirania line tripped. Due to tripping of these elements, Baramura area of Tripura Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was restored by charging 132 kV Baramura-Jirania Line at 11:40 hrs.	132 kV Baramura-Gamaitila line and 132 kV Baramura-Jirania line
11	GD I	Renggang area of Manipur Power System	14-08-2024 11:32	14-08-2024 19:07	07:35	0	4	0.00%	0.14%	2552	2791	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam-Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 11:32 Hrs of 14-08-2024, 132 kV Loktak – Renggang line tripped. Due to tripping of this element, Renggang area of Manipur Power System was isolated from NER Grid. Power supply was extended to Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 19:07Hrs on 14-08-2024.	132 kV Loktak-Renggang line
12	GD I	Karong area of Manipur Power System	14-08-2024 14:59	14-08-2024 16:33	01:34	0	13	0.00%	0.42%	2822	3112	Karong area of Manipur Power System was connected with rest of NER Grid via 132 kV Karong - Kohima Line. 132 kV Imphal (MSPCL) - Karong Line was under tripped condition since 11:13 Hrs of 14.08.2024. At 14:59 Hrs of 14.08.2024, 132 kV Karong - Kohima Line tripped. Due to tripping of this element, Karong 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 Karong area of Manipur Power System by charging 132 kV Imphal (MSPCL) - Karong Line at 16:33 Hrs of 14.08.2024.	132 kV Karong - Kohima Line
13	GD I	Saitual, Vankal and Khawzawl areas of Mizoram power system	15-08-2024 17:56	15-08-2024 18:08	00:12	0	13	0.00%	0.52%	2853	2497	Saitual, Vankal and Khawzawl areas of Mizoram Power System were connected with rest of NER Grid via 132 kV Zuangtui - Saitual line. At 17:56 Hrs of 15-08-2024, 132 kV Zuangtui - Saitual line tripped. Due to tripping of this line, Saitual, Vankal and Khawzawl areas of Mizoram Power System were isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Saitual, Vankal and Khawzawl areas of Mizoram Power System by charging 132 kV Zuangtui – Saitual line at 18:08 hrs.	132 kV Zuangtui - Saitual line

Details of Grid Events during the Month of Aug 2024 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 for 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)		
14	GD II	Turiat Generating Units of NEEPCO	15-08-2024 19:18	15-08-2024 19:32	00:14	54	0	1.78%	0.00%	3040	2926	Turiat Generating Units of Mizoram Power System was connected with rest of NER Grid through 132 kV Turiat-Kolasib Line. At 19:18 Hrs of 15-08-2024, 132 kV Turiat-Kolasib Line tripped. Due to tripping of this element, Turiat Generating Units of Mizoram Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power was extended to Turiat Generating Units by charging 132 kV Turiat-Kolasib Line at 19:32 Hrs of 15.08.2024.	132 kV Turiat-Kolasib Line
15	GD I	Melriat and Lunglei areas of Mizoram power system	15-08-2024 19:21	15-08-2024 19:38	00:17	0	48	0.00%	1.65%	3019	2911	Melriat and Lunglei areas of Mizoram Power System were connected with rest of NER Grid via 132 kV Luangmual – Melriat line. 132kV Serchip – Lunglei line was kept open. At 17:56 Hrs of 15-08-2024, 132 kV Luangmual – Melriat line tripped. Due to tripping of this line, Melriat and Lunglei areas of Mizoram Power System were isolated from NER Grid and collapsed due to no source available in these areas. Power was extended to Melriat and Lunglei areas of Mizoram Power System by charging 132 kV Luangmual - Melriat line at 19:38 hrs. ☐	132 kV Luangmual – Melriat line
16	GD I	Renggang area of Manipur Power System	16-08-2024 08:46	17-08-2024 08:33	23:47	0	1	0.00%	0.04%	2560	2421	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam -Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 08:46 Hrs of 16-08-2024, 132 kV Loktak - Renggang line tripped. Due to tripping of this element, Renggang area of Manipur Power System was isolated from NER Grid. Power supply was extended to Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 08:33 Hrs on 17-08-2024.	132 kV Loktak - Renggang line
17	GD I	Leshka HEP of Meghalaya Power System	16-08-2024 13:30	16-08-2024 13:48	00:18	118	0	4.18%	0.00%	2821	2768	Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khleihrat D/C lines. At 13:30 Hrs of 16.08.2024, 132 kV Myntdu Leshka - Khleihrat D/C lines tripped. Due to tripping of these lines, Leshka HEP of Meghalaya Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power supply was extended to Leshka HEP of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khleihrat 1 at 13:48 hrs of 16.08.2024.	132 kV Myntdu Leshka - Khleihrat D/C lines
18	GD I	Saitual, Vankal and Khawzawl areas of Mizoram power system	16-08-2024 14:48	16-08-2024 14:53	00:05	0	11	0.00%	0.38%	2884	2896	Saitual, Vankal and Khawzawl areas of Mizoram Power System were connected with rest of NER Grid via 132 kV Zuangtui - Saitual line. At 14:48 Hrs of 16-08-2024, 132 kV Zuangtui - Saitual line tripped. Due to tripping of this line, Saitual, Vankal and Khawzawl areas of Mizoram Power System were isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Saitual, Vankal and Khawzawl areas of Mizoram Power System by charging 132 kV Zuangtui – Saitual line at 14:53 hrs.	132 kV Zuangtui - Saitual line
19	GD I	Renggang area of Manipur Power System	17-08-2024 10:42	18-08-2024 16:33	29:51	0	3	0.00%	0.11%	2536	2694	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam -Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 10:42 Hrs of 17-08-2024, 132 kV Loktak - Renggang line tripped. Due to tripping of this element, Renggang area of Manipur Power System was isolated from NER Grid. Power supply was extended to Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 16:33 Hrs on 18-08-2024.	132 kV Loktak - Renggang line

Details of Grid Events during the Month of Aug 2024 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 for 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	GD I	Dhemaji & Silapathar area of Upper Assam power system	17-08-2024 11:58	17-08-2024 12:07	00:09	0	36	0.00%	1.33%	2573	2705	Dhemaji and Silapathar areas are radially connected through 132 kV North Lakhimpur- Dhemaji line. At 11:58 Hrs of 17-08-2024, 132 kV North Lakhimpur- Dhemaji line tripped. Due to tripping of this element, Dhemaji & Silapathar area of Upper Assam Power System was isolated from NER Grid. Power supply was extended to Dhemaji area by charging 132 kV North Lakhimpur- Dhemaji line at 12:07 Hrs on 17-08-2024.	132 kV North Lakhimpur- Dhemaji line
21	GD I	Gossaigaon area of Assam power system	17-08-2024 17:14	17-08-2024 18:02	00:48	0	4	0.00%	0.14%	2707	2842	Gossaigaon area of Assam Power System was connected with NER Power system via 132 kV Dhaligaon-Gossaigaon-Gauripur link (132 kV Gauripur- Gossaigaon was kept open due to system requirement). At 17:14 Hrs of 17-08-2024, 132kV Dhaligaon-Gossaigaon line tripped due to which Gossaigaon area of Assam Power System was isolated from NER Grid and collapsed due to no source available in the area. Power supply was extended by charging 132kV Dhaligaon-Gossaigaon line at 18:02 Hrs of 17.08.2024. ☹️	132 kV Dhaligaon-Gossaigaon line
22	GD I	Rangia, Amingaon, Tangla, Sipajhar & Kamalpur Areas of Assam Power System	17-08-2024 17:18	17-08-2024 17:25	00:07	0	164	0.00%	5.78%	2720	2837	At 17:18 Hrs of 17.08.2024, 220 kV Rangia-BTPS D/C & 220kV Amingaon-Rangia D/C tripped due to which SP5 in Rangia was operated and subsequently Rangia, Amingaon, Tangla, Sipajhar & Kamalpur Areas of Assam Power System were isolated from NER Grid and collapsed due to no source available in the areas. Power supply was extended by charging 220kV Salakati – Rangia I line at 17:25 Hrs of 17.08.2024.	220 kV Rangia-BTPS D/C & 220kV Amingaon-Rangia D/C lines
23	GD I	Ziro, Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh and Margherita, Rupai & Chapakhowa area of Assam power system	17-08-2024 20:17	17-08-2024 20:46	00:29	0	109	0.00%	3.20%	3520	3409	Ziro, Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System and Chapakhowa and Rupai area of Assam Power System were connected with rest of NER Grid through 132 kV Ranganadi - Ziro Line, 132 kV Tinsukia-Margherita and 132 kV Rupai - Tinsukia line. At 20:10 Hrs of 17-08-2024, 132 kV Tinsukia-Margherita Line tripped and at 20:17 Hrs of 17-08-2024, 132 kV Ranganadi - Ziro Line, and 132 kV Rupai - Tinsukia Line tripped. Due to tripping of these elements, Ziro, Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System and Margherita, Rupai & Chapakhowa areas of Assam Power System were isolated from NER Grid. Power supply was extended to Ziro, Daporizo, Basar, Along, Pasighat, areas of Arunachal Pradesh Power System by charging 132 kV Ranganadi - Ziro Line at 20:46 Hrs of 17.08.2024. Power supply was extended to and Chapakhowa and Rupai area of Assam Power System and Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by first charging 132 kV Tinsukia-Margherita Line at 20:33 Hrs of 17.08.2024. 132 kV Roing - Pasighat Line was kept open to identify the fault.	132 kV Tinsukia-Margherita Line, 132 kV Ranganadi - Ziro Line, and 132 kV Rupai - Tinsukia Line
24	GD I	Roing, Tezu and Namsai areas of Arunachal Pradesh and Margherita, Rupai & Chapakhowa area of Assam power system	17-08-2024 22:05	17-08-2024 22:39	00:34	0	80	0.00%	2.35%	3520	3409	Roing, Tezu, Namsai areas of Arunachal Pradesh Power System and Chapakhowa, Rupai and Margherita areas of Assam Power System were connected with rest of NER Grid through 132 kV Tinsukia-Margherita, 132 kV Rupai - Margherita, 132 kV Rupai - Tinsukia line, 132 kV Rupai - Chapakhowa line, 132 kV Roing - Chapakhowa D/C lines, 132 kV Roing - Tezu Line and 132 kV Namsai - Tezu Line. At 22:05 Hrs of 17-08-2024, 132 kV Tinsukia-Margherita, 132 kV Rupai - Margherita Line, 132 kV Rupai - Tinsukia line and at 22:08 Hrs of 17-08-2024, 132 kV Rupai - Chapakhowa line and 132 kV Roing - Chapakhowa D/C lines tripped. Due to tripping of these elements, Roing, Tezu, Namsai areas of Arunachal Pradesh Power System and Chapakhowa, Rupai and Margherita areas of Assam Power System were isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Roing, Tezu, Namsai areas of Arunachal Pradesh Power System by charging 132 kV Roing - Pasighat Line at 22:39 Hrs of 17.08.2024 and Chapakhowa, Rupai and Margherita areas of Assam Power System by first charging 132 kV Rupai - Tinsukia Line at 22:25 Hrs of 17-08-2024 and by subsequently charging the rest of the lines.	132 kV Tinsukia-Margherita, 132 kV Rupai - Margherita Line, 132 kV Rupai - Tinsukia line, 132 kV Rupai - Chapakhowa line and 132 kV Roing - Chapakhowa D/C lines
25	GD I	Khupi, Tenga & Dikshi areas of Arunachal Pradesh Power System	18-08-2024 13:33	18-08-2024 14:43	01:10	19	18	0.82%	0.73%	2313	2464	Khupi, Tenga & Dikshi areas of Arunachal Pradesh Power System were connected with rest of NER Power system via 132 kV Balipara- Tenga line and 400/132 kV, 3x40 MVA ICT at Kameng. At 13:33 Hrs of 18-08-2024, 132 kV Balipara-Tenga line & ICT at Kameng tripped which resulted in blackout of Khupi, Tenga & Dikshi areas of Arunachal Pradesh Power system. Power was restored to the Tenga, Tippi area by charging 132kV Balipara-Tenga line at 14:36 hrs and to Khupi area by charging 132kV Tenga-Khupi at 14:43 hrs of 18.08.2024.	132 kV Balipara-Tenga line & ICT at Kameng

Details of Grid Events during the Month of Aug 2024 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 for 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)		
26	GD I	Leshka HEP of Meghalaya Power System	18-08-2024 17:24	18-08-2024 17:47	00:23	119	0	4.50%	0.00%	2643	2563	Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khleihrat D/C lines. At 17:24 Hrs of 18-08-2024, 132 kV Myntdu Leshka - Khleihrat D/C lines tripped. Due to tripping of these lines, Leshka HEP of Meghalaya Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power supply was extended to Leshka HEP of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khleihrat 1 at 17:47 hrs.	132 kV Myntdu Leshka - Khleihrat D/C lines
27	GD I	Rengpang area of Manipur Power System	19-08-2024 21:26	20-08-2024 17:14	19:48	0	1	0.00%	0.03%	3299	2989	Rengpang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak-Rengpang line. 132kV-Jiribam-Rengpang line was under long outage since 18:18 Hrs of 17.11.2023. At 21:26 Hrs of 19-08-2024, 132 kV 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 was extended to Rengpang area by charging 132 kV Loktak-Rengpang line at 17:14 Hrs of 20.08.2024.	132 kV Loktak-Rengpang line
28	GD I	Rengpang area of Manipur Power System	23-08-2024 01:48	23-08-2024 06:59	05:11	0	1	0.00%	0.04%	2995	2720	Rengpang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak-Rengpang line. 132kV-Jiribam-Rengpang line was under long outage since 18:18 Hrs of 17.11.2023. At 01:48 Hrs of 23-08-2024, 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 was extended to Rengpang area by charging 132 kV Loktak-Rengpang line at 06:59 Hrs of 23.08.2024.	132 kV Loktak-Rengpang Line
29	GD I	Serchhip area of Mizoram Power System	23-08-2024 09:30	23-08-2024 09:40	00:10	0	3	0.00%	0.11%	2768	2615	Serchhip area of Mizoram Power System was connected with rest of NER Grid via 132 kV Zuangtui - Serchhip line. At 09:30 Hrs of 23-08-2024, 132 kV Zuangtui – Serchhip line tripped. Due to tripping of this line, Serchhip areas of Mizoram Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Serchhip areas of Mizoram Power System by charging 132 kV Zuangtui – Serchhip line at 09:40 hrs of 23.08.2024.	132 kV Zuangtui – Serchhip line
30	GD I	Leshka Generating station of Meghalaya Power System	23-08-2024 11:08	23-08-2024 11:19	00:11	118	0	4.35%	0.00%	2710	2688	Leshka Generating station of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khleihrat D/C Lines. At 11:08 Hrs of 23-08-2024, 132 kV Myntdu Leshka - Khleihrat D/C Lines tripped. Due to tripping of these elements, Leshka Generating station of Meghalaya Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power was extended to Leska Generating station by charging 132 kV Myntdu Leshka - Khleihrat 1 at 11:19 hrs of 23.08.2024.	132 kV Myntdu Leshka - Khleihrat D/C Lines
31	GD I	Rengpang area of Manipur Power System	23-08-2024 12:14	23-08-2024 23:15	11:01	0	3	0.00%	0.11%	2597	2674	Rengpang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Rengpang line. 132 kV Jiribam -Rengpang line was under outage since 18:18 Hrs of 17.11.2023. At 12:14 Hrs of 23-08-2024, 132 kV Loktak - Rengpang line tripped. Due to tripping of this element, Rengpang area of Manipur Power System was isolated from NER Grid. Power supply was extended to Rengpang area of Manipur Power System by charging 132 kV Loktak – Rengpang line at 23:15 Hrs on 23-08-2024.	132 kV Loktak - Rengpang line

Details of Grid Events during the Month of Aug 2024 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 for 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)		
32	GD I	Kohima, Zhadima, Chiephobozou, Wokha and New Secretariat areas of Nagaland power system	23-08-2024 13:51	23-08-2024 14:21	00:30	0	20	0.00%	0.71%	2601	2810	Kohima, Zhadima, Chiephobozou, Wokha and New Secretariat areas of Nagaland Power System were connected with rest of NER Grid through 132kV Dimapur - Kohima line, 132kV Karong – Kohima and 132kV Kohima – Zhadima lines. 132kV Sanis – Wokha was under planned shutdown w.e.f. 08:35hrs of 23-08-2024. 132kV Koima-Meluri line was under long outage prior to event since 10:05 Hrs of 27.09.2023. At 13:51 Hrs of 23-08-2024, 132 kV Dimapur - Kohima line, 132 kV Karong – Kohima and 132 kV Kohima – Zhadima lines tripped. Due to tripping of these elements, Kohima, Zhadima, Chiephobozou, Wokha and New Secretariat areas of Nagaland Power System was isolated from NER Grid and collapsed due to no source available in these areas. Power was extended to Kohima, Zhadima, Chiephobozou, Wokha and New Secretariat areas by charging 132 kV	132 kV Dimapur - Kohima line, 132 kV Karong – Kohima and 132 kV Kohima – Zhadima lines
33	GD I	Leshka HEP of Meghalaya Power System	23-08-2024 16:38	23-08-2024 17:03	00:25	119	0	4.34%	0.00%	2741	3044	Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khleihriat D/C lines. At 16:38 Hrs of 23-08-2024, 132 kV Myntdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these lines, Leshka HEP of Meghalaya Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power supply was extended to Leshka HEP of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khleihriat 1 at 17:03 hrs.	132 kV Myntdu Leshka - Khleihriat D/C lines
34	GD I	Pasighat areas of Arunachal Pradesh Power System	24-08-2024 00:54	24-08-2024 01:53	00:59	0	8	0.00%	0.28%	3059	2836	Pasighat area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Along-Pasighat & 132 kV Roing-Pasighat lines. At 00:54 Hrs of 24-08-2024, 132 kV Along-Pasighat Line and 132 kV Roing-Pasighat line tripped. Due to tripping of these elements, Pasighat 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 Pasighat area by charging 132 kV Along-Pasighat Line at 01:53 Hrs of 24.08.2024.	132 kV Along-Pasighat Line and 132 kV Roing-Pasighat line
35	GD I	Pasighat areas of Arunachal Pradesh Power System	24-08-2024 02:01	24-08-2024 04:47	02:46	0	8	0.00%	0.30%	2568	2666	Pasighat area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Along-Pasighat & 132 kV Roing-Pasighat lines. 132 kV Roing-Pasighat line was under faulty condition. At 02:01 Hrs of 24-08-2024, 132 kV Along-Pasighat Line tripped. Due to tripping of these elements, Pasighat 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 Pasighat area by charging 132 kV Along-Pasighat Line at 04:47 Hrs of 24.08.2024.	132 kV Along-Pasighat Line
36	GD I	Khupi area of Arunachal Pradesh Power System	25-08-2024 22:13	25-08-2024 22:58	00:45	0	3	0.00%	0.10%	3153	3121	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Tenga-Khupi and 132 kV Kameng-Khupi lines. At 22:13 Hrs of 25-08-2024, 132 kV Tenga-Khupi and 132 kV Kameng-Khupi lines tripped. Due to tripping of these elements, Khupi area of Arunachal Pradesh Power System got isolated from NER Grid and collapsed due to no source available in this area. Power supply was restored to Khupi area of Arunachal Pradesh Power System by charging 132kV Tenga-Khupi line at 23:58 hrs of 25.08.2024. 132kV Kameng-Khupi line was charged at 00:18 Hrs of 26.08.2024	132 kV Tenga-Khupi and 132 kV Kameng-Khupi lines
37	GD I	Gohpur Area of Assam Power System	26-08-2024 06:37	26-08-2024 07:36	00:59	0	9	0.00%	0.39%	2667	2285	Gohpur area of Assam Power System was connected with rest of NER Grid through 132kV Gohpur-BNC(PG), 132kV Gohpur – Nirjuli, 132 kV Gohpur- N. Lakhimpur D/C, 132kV Gohpur – Pavoi D/C and 132 kV Gohpur – Itanagar lines. At 06:37 Hrs of 26.08.2024, 132kV Gohpur-BNC(PG), 132kV Gohpur – Nirjuli, 132kV Gohpur - N. Lakhimpur D/C, 132kV Gohpur – Pavoi D/C and 132kV Gohpur – Itanagar lines tripped. Due to tripping of these elements, Gohpur area of Assam Power System got isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Gohpur area of Assam Power System by charging 132kV Gohpur – Nirjuli at 07:36 Hrs of 26-08-2024.	132kV Gohpur-BNC(PG), 132kV Gohpur – Nirjuli, 132kV Gohpur – N. Lakhimpur D/C, 132kV Gohpur – Pavoi D/C and 132kV Gohpur – Itanagar lines
38	GD I	Pasighat areas of Arunachal Pradesh Power System	26-08-2024 09:42	26-08-2024 13:38	03:56	0	6	0.00%	0.24%	2384	2546	Pasighat area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Along-Pasighat & 132 kV Roing-Pasighat lines. 132 kV Roing-Pasighat Line was under outage since 00:54 Hrs of 24.08.2024. At 09:42 Hrs of 26-08-2024, 132 kV Along-Pasighat Line tripped. Due to tripping of these elements, Pasighat 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 Pasighat area by charging 132 kV Along-Pasighat Line at 13:38 Hrs of 26.08.2024.	132 kV Along-Pasighat Line

Details of Grid Events during the Month of Aug 2024 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 for GI2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
39	GD I	Serchhip area of Mizoram power system	26-08-2024 21:32	26-08-2024 22:30	00:58	0	3	0.00%	0.09%	3147	3286	Serchhip area of Mizoram Power System was connected with rest of NER Grid via 132 kV Zuangtui - Serchhip line. At 21:32 Hrs of 26-08-2024, 132 kV Zuangtui – Serchhip line tripped. Due to tripping of this line, Serchhip areas of Mizoram Power System was isolated from NER Grid and collapsed due to no source available in this area. To prevent load loss, power is fed to Serchhip via Zuangtui -Saitual- Vankal- Khawzawi E.Lungdar- Serchhip link.	132 kV Zuangtui – Serchhip line
40	GD I	Renggang area of Manipur Power system	27-08-2024 11:16	27-08-2024 11:59	00:43	0	3	0.00%	0.11%	2508	2760	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam -Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 11:16 Hrs of 27-08-2024, 132 kV Loktak - Renggang line tripped. Due to tripping of this element, Renggang area of Manipur Power System was isolated from NER Grid. Power supply was extended to Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 11:59 Hrs on 27-08-2024.	132 kV Loktak - Renggang line
41	GD I	Margherita area of Assam Power System	28-08-2024 01:13	28-08-2024 01:31	00:18	0	20	0.00%	0.69%	2548	2910	Margherita area of Assam Power System was connected with rest of NER Grid through 132 kV Tinsukia – Margherita & 132 kV Rupai- Margherita line. At 01:13 Hrs of 28-08-2024, 132 kV Tinsukia – Margherita & 132 kV Rupai- Margherita line tripped. Due to tripping of these elements, Margherita area of Assam Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was restored to Margherita by charging 132 kV Rupai- Margherita line at 01:31 Hrs of 28.08.2024.	132 kV Tinsukia – Margherita & 132 kV Rupai- Margherita line
42	GD I	Umrangshu area of Assam Power System	28-08-2024 09:31	28-08-2024 12:38	03:07	0	1	0.00%	0.04%	2323	2638	Umrangshu area of Assam Power System was connected with rest of NER Grid through 132 kV Haflong- Umrangshu. (132 kV Khandong- Umrangshu line was under planned shutdown since 08:55 hrs of 28.08.2024) At 09:31 Hrs of 28-08-2024, 132 kV Haflong- Umrangshu line tripped. Due to tripping of these elements, Umrangshu area of Assam Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was restored by charging 132 kV Haflong- Umrangshu line at 12:38 Hrs of 28.08.2024.	132 kV Haflong- Umrangshu line
43	GD I	Sanis area of Nagaland Power System and Doyang HEP	28-08-2024 13:33	28-08-2024 13:55	00:22	73	1	2.92%	0.04%	2502	2835	Sanis area of Nagaland Power System and Doyang HEP were connected with rest of NER Grid through 132kV Doyang – Dimapur D/C lines. 132kV Doyang – Mokochung line and 132kV Wokha-Sanis line was under outage since 10:33 Hrs and 09:53 Hrs of 28.08.2024 respectively. At 13:33 Hrs of 28-08-2024, 132 kV Doyang – Dimapur D/C lines along with Doyang Unit 1,2 &3 tripped. Due to tripping of these elements, Sanis area of Nagaland Power System and Doyang HEP of Assam Power System were isolated from NER Grid and collapsed due to load generation mismatch in this area. Power was extended to Sanis area of Nagaland Power System and Doyang HEP by charging 132kV Doyang -	132 kV Doyang – Dimapur D/C lines along with Doyang Unit 1,2 &3
44	GD I	New Shillong Substation of Meghalaya Power System	28-08-2024 16:51	28-08-2024 17:39	00:48	0	0	0.00%	0.00%	2351	2962	New Shillong Substation of Meghalaya Power System was connected with rest of NER Grid through 220kV Mawngap-New Shillong line D/C lines. At 16:51 Hrs of 28-08-2024, 220 kV Mawngap-New Shillong line D/C lines tripped. Due to tripping of these elements, New Shillong Substation of Meghalaya Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended New Shillong Substation of Meghalaya Power System by charging 220 kV Mawngap-New Shillong D/C lines at 17:39 hrs of 28.08.2024.	220 kV Mawngap-New Shillong D/C lines
45	GD I	Renggang area of Manipur power system	29-08-2024 11:37	29-08-2024 17:15	05:38	0	3	0.00%	0.11%	2545	2801	Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam -Renggang line was under outage since 18:18 Hrs of 17.11.2023. At 11:37 Hrs of 29-08-2024, 132 kV Loktak - Renggang line tripped. Due to tripping of this element, Renggang area of Manipur Power System was isolated from NER Grid. Power supply was extended to Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 17:15 Hrs on 29-08-2024.	132 kV Loktak - Renggang line

Details of Grid Events during the Month of Aug 2024 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 for 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)		
46	GD I	Karbi Langpi HEP of Assam Power System	29-08-2024 11:45	29-08-2024 12:34	00:49	101	0	3.97%	0.00%	2543	2830	<p>Karbi Langpi HEP of Assam Power System was connected with rest of NER Grid through 132 kV Sarusajai-Karbi Langpi 2 line. 132 kV Sarusajai-Karbi Langpi 1 line was under state approved planned shutdown.</p> <p>At 11:45 Hrs of 29-08-2024, 132 kV Sarusajai-Karbi Langpi 2 line tripped. Due to tripping of this element, Karbi Langpi HEP of Assam Power System was isolated from NER Grid.</p> <p>Power was extended to Karbi Langpi HEP of Assam Power System by charging 132 kV Sarusajai-Karbi Langpi 1 line at 12:34 hrs of 29.08.2024.</p>	132 kV Sarusajai-Karbi Langpi 2 line
47	GD I	Karong area of Manipur Power System	29-08-2024 12:04	29-08-2024 12:23	00:19	0	10	0.00%	0.36%	2437	2813	<p>Karong area of Manipur Power System was connected with rest of NER Grid through 132 kV Karong Kohima Line. 132 kV Yurembam-Karong line was under outage condition since 09:19 hrs of 29.08.2024.</p> <p>At 12:01 Hrs of 29-08-2024, 132 kV Karong-Kohima Line tripped. Due to tripping of this element, Karong area of Manipur Power System was isolated from NER Grid and collapsed due to no source available in this area.</p> <p>Power supply was extended to Karong area of Manipur Power System by charging 132 kV Karong-Kohima Line at 12:23 Hrs of 29.08.2024</p>	132 kV Karong-Kohima Line
48	GD I	Karong area of Manipur Power System	29-08-2024 12:35	29-08-2024 13:30	00:55	0	7	0.00%	0.25%	2462	2835	<p>Karong area of Manipur Power System was connected with rest of NER Grid through 132 kV Karong Kohima Line. 132 kV Yurembam-Karong line was under outage condition since 09:19 hrs of 29.08.2024.</p> <p>At 12:35 Hrs of 29-08-2024, 132 kV Karong-Kohima Line tripped. Due to tripping of this element, Karong area of Manipur Power System was isolated from NER Grid and collapsed due to no source available in this area.</p> <p>Power was extended to Karong area by charging 132 kV Imphal-Karong line at 13:30 Hrs of 29.08.2024.</p>	132 kV Karong-Kohima Line
49	GD I	Renggang area of Manipur Power System	30-08-2024 10:03	30-08-2024 22:11	12:08	0	3	0.00%	0.12%	2577	2420	<p>Renggang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Renggang line. 132 kV Jiribam -Renggang line was under outage since 18:18 Hrs of 17.11.2023.</p> <p>At 10:03 Hrs of 30-08-2024, 132 kV Loktak - Renggang line tripped. Due to tripping of this element, Renggang area of Manipur Power System was isolated from NER Grid.</p> <p>Power supply was extended to Renggang area of Manipur Power System by charging 132 kV Loktak – Renggang line at 22:11 Hrs on 30-08-2024.</p>	132 kV Loktak - Renggang line
50	GD I	Margherita area of Assam Power System	30-08-2024 23:40	31-08-2024 00:37	00:57	0	20	0.00%	0.62%	2993	3203	<p>Margherita area of Assam power system is connected with the rest of the grid through 132 kV Tinsukia-Margherita and 132 kV Rupai-Margherita lines.</p> <p>At 23:40 Hrs of 30 08 2024, 132 kV Tinsukia-Margherita and 132 kV Rupai-Margherita lines tripped. Due to tripping of these elements, Margherita area of Assam power system got separated from NER grid due to no source available in this area.</p> <p>Power was extended to Margherita area by charging 132 kV Rupai-Margherita line at 00:37 Hrs of 31.08.2024. Subsequently, 132 kV Tinsukia-Margherita line was charged at 00:58 Hrs of 31.08.2024.</p>	132 kV Tinsukia-Margherita and 132 kV Rupai-Margherita lines