

Details of Grid Events during the Month of Jan 2025 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 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	Punjab	06-01-2025 09:32	06-01-2025 18:15	08:43	225	521	0.452	0.816	49743	63846	i)220/132 KV Ropar (GGSTP) has double main bus system in 220KV and 132KV side. ii)During antecedent condition, 210 MW Guru Gobind Singh TPS (Ropar) - UNIT 3, Unit 4 and Unit 6 generating 180MW, 167MW and 176MW respectively. iii)As reported at 09:32 hrs, during the synchronization of the 210 MW Unit-5 at Guru Gobind Singh Thermal Power Station (Ropar), the R- phase limb of the 220 kv generator transformer circuit breaker for Unit-5 ruptured. This incident triggered the tripping of Units 3, 4, and 6, each with a capacity of 210 MW. Consequently, a blackout occurred at the 220 KV Guru Gobind Singh TPS substation. (Details of protection operation yet to be received). iv)As observed from PMU at Abdullapur (PG) S/s, R-N phase to earth fault was observed. Fault clearance time of 120 msec can be seen in the PMU. v)During this event, a total generation loss of 521MW was observed in Punjab control area . (As per SCADA). vi)As per SCADA, 225MW of change in demand is observed in Punjab control area.	(i)210 MW Guru Gobind Singh TPS (Ropar) - UNIT 6 (ii)210 MW Guru Gobind Singh TPS (Ropar) - UNIT 3 (iii)210 MW Guru Gobind Singh TPS (Ropar) - UNIT 4
2	GI-2	Rajasthan	08-01-2025 13:38	08-01-2025 23:17	09:39	1450	0	2.714	0.000	53435	58056	i)800KV Fatehgarh (Adani) pooling station has one and half breaker scheme with 400KV Fatehgarh (Adani) – Fatehgarh II Ckt 1 & 2, 400KV Fatehgarh (Adani) – Acme, 400KV Fatehgarh (Adani) – Fatehgarh PSS Ckt. 1 & 2. ii)As reported, at 13:38hrs, 400 KV Fatehgarh, II(PG)-Fatehgarh Pooling (FBTL) (FBTL) Ckt-1 tripped on R-Y phase to phase fault with fault distance of 45.8km and fault current of 8.3KA from Fatehgarh (Adani) end. iii)As per PMU at Fatehgarh, R-Y phase to phase fault (voltage dipped upto 0.514 p.u.) is observed with fault clearing time of 80ms. After the fault clearance voltage increased upto .99 p.u. iv)As per PMU at Bassi (PG), a sharp drop in frequency is observed from 49.97 Hz to 49.83 Hz and frequency recovered to 49.99 Hz within 1 min. v)As per PMU, solar generation loss of approx., 719MW, 30MW, 218MW and 98MW are observed respectively at ASHPL (IP), AHEJ3 (IP), RSUPL (IP) and CSPJP (IP). vi)As per SCADA, dip in NR total solar generation of approx. 1450 MW is observed with change in Rajasthan solar generation of approx. 177 MW.	(i) 400 KV Fatehgarh_II(PG)-Fatehgarh Pooling (FBTL) (FBTL) Ckt-1
3	GI-2	Rajasthan	09-01-2025 23:35	10-01-2025 01:23	01:48	523	171	1.614	0.389	32407	43996	i)800/220KV Akal(RS) has one and half breaker scheme at 400KV level and double main and transfer bus scheme at 220KV level. ii)During antecedent condition, 400/220 kv 500 MVA ICT-1 & ICT-2 were connected to 400KV bus-1 and 400/220 kv 315 MVA ICT-3 & 500 MVA ICT-4 were connected to 400KV bus-2. iii)As reported, at 23:35 hrs, Y-phase jumper of 220KV bus-1 of 220KV Akal-Bhensara Ckt-1 snapped which created bus fault on both 220KV buses at Akal(RS). iv)As per PMU at Bhadla(PG), Y-N phase to earth fault with delayed fault clearance time of 720 msec is observed. v)Bus bar protection is not in service at 220kv side of Akal S/s. Therefore, fault cleared with the operation of back up protection i.e., 400/220KV ICTs at Akal. All four ICTs tripped on O/C E/F protection operation. vi)Due to tripping of all four ICTs at Akal(RS), evacuation path lost for all the wind power plants connected at 220KV bus-1 & bus-2 at Akal(RS). On this, both 220KV buses became dead at Akal(RS) S/s. vii)During this event, dip in Rajasthan wind generation of approx. 523 MW was observed and subsequently it converted to Y-B-N double phase to earth fault. Delayed fault clearance time of 720 msec can be seen in the PMU. viii)As per SCADA, about 171MW demand change is observed in Rajasthan control area.	(i)20 kv Akal – Bhensara Ckt-1 (ii)20 kv Akal – Bhensara Ckt-2 (iii)800/220 kv 500 MVA ICT 1 AT AKAL(RS) (iv)800/220 kv 500 MVA ICT 2 AT AKAL(RS) (v)800/220 kv 500 MVA ICT 3 AT AKAL(RS) (vi)800/220 kv 500 MVA ICT 4 AT AKAL(RS) (vii)20 kv ANHESI BUS-1 (viii)20 kv ANHESI BUS-2 (ix)20 kv AKAL-CRNL (x)20KV AKAL-BARMER (xi)20 AKAL-AMARGARHAR (xii)20 AKAL-MAHA (xiii)20 AKAL-ARAJ(SUZLON) ckt-1 (xiv)20 AKAL-ARAJ(SUZLON) ckt-2 (xv)20 AKAL-RAJGARH (xvi)20 AKAL-ADRN (xvii)20 AKAL-BHU ckt-1 (xviii)20 AKAL-BHU ckt-2 (xix)20 AKAL-DANGIR ckt-1 (xx)20 AKAL-DANGIR ckt-2 (xxi)20 AKAL-MODLANA (xxii)20 AKAL-JAIA
4	GI-2	Rajasthan	10-01-2025 13:35	10-01-2025 14:15	00:40	0	320	0.000	0.529	55872	60517	i)800/220KV Heerapura sub-station has one and half breaker scheme in the 400KV side and Double main & transfer scheme in the 220 KV side. ii)As reported at 13:35hrs, a kite thread fell on the 220KV side of the ICTs. As a result Bus- Bar protection operated on the 220KV side led to tripping 400/220 kv 250 MVA ICT 1 and 3 at Heerapura(RS). (exact reason and nature of protection operated yet to be shared). iii)As per PMU at Heerapura (RS), R-N fault (delayed fault clearance in R-ph) is observed with delayed fault clearing time of 320ms. iv)As per SCADA, change in demand of approx. 320MW in Rajasthan control area is observed.	(i)800/220 kv 250 MVA ICT 1 at Heerapura(RS) (ii)800/220 kv 250 MVA ICT 3 at Heerapura(RS)
5	GD-1	Rajasthan	12-01-2025 06:31	12-01-2025 09:42	03:11	340	206	0.957	0.466	35522	44202	i)800/220KV Akal(RS) has one and half breaker scheme at 400KV level and double main and transfer bus scheme at 220KV level. ii)During antecedent condition, 400/220 kv 500 MVA ICT-1 & ICT-2 were connected to 400KV bus-1 and 400/220 kv 315 MVA ICT-3 & 500 MVA ICT-4 were connected to 400KV bus-2. iii)As reported, at 06:31 hrs, B-N fault occurred on 400 KV Akal-Barmer (RS) Ckt, fault distance was 99.62KM and fault current was 2.42 KA from Barmer end. iv)However, as observed from PMU at Bhadla (PG) S/s, B-N fault was observed and subsequently it converted to Y-B-N double phase to earth fault. Delayed fault clearance time of 2120 msec can be seen in the PMU. v)On this fault, line tripped from Barmer end but breaker of Akal end got stuck due to issue in SF6 gas pressure. Due to non opening of breaker of Akal end, LBB protection would have operated. vi)However, all the 400KV lines and 400/220KV ICTs at Akal tripped during the event. Exact details of protection operation not received yet from SLDC-Rajasthan. vii)Due to tripping of all four ICTs at Akal(RS), evacuation path lost for all the wind power plants connected at 220KV bus-1 & bus-2 at Akal(RS). On this, both 400 and 220KV buses became dead at Akal(RS) S/s. viii)During this event, a dip in Rajasthan wind generation of approx. 340 MW is observed which recovered completely within 5 minutes. (As per SCADA). ix)As per SCADA, 206MW of change in demand is observed in Rajasthan control area.	(i)800/220 kv 500 MVA ICT 1 AT AKAL(RS) (ii)800/220 kv 500 MVA ICT 2 AT AKAL(RS) (iii)800/220 kv 500 MVA ICT 3 AT AKAL(RS) (iv)800/220 kv 500 MVA ICT 4 AT AKAL(RS) (v)800/220 kv 500 MVA ICT 2 AT RAMGARH(RS) (vi)800 KV AKAL-JODHPUR (RS) CKT-1 (vii)800 KV AKAL-BARMER (RS) CKT-1 (viii)800 KV AKAL-JAISALMER (RS) CKT-1 (ix)800 KV AKAL-RAMGARH (RS) CKT-1 (x)800 KV AKAL-RAMGARH (RS) CKT-2 (xi)800 KV AKAL-KANKANI (RS) CKT-1
6	GD-1	Rajasthan	13-01-2025 14:04	14-01-2025 00:31	10:27	280	0	0.587	0.000	47735	52615	i)Generation of 220 KV AHEJAL PSS 2 (ASPS2) (IP) station evacuates through 220 KV AHEJAL PSS 2 HB_FGRAH_FBT (AHEJ4L)-Adani RenewPark_SL_FGARH_FBT (AREPRL) (AHEJ4L) Ckt. During antecedent condition, 220 KV AHEJAL PSS 2 (ASPS2) (IP) was generating approx. 280 MW (as per PMU). ii)As reported, at 14:04hrs, 220 KV AHEJAL PSS 2 HB_FGRAH_FBT (AHEJ4L)-Adani RenewPark_SL_FGARH_FBT (AREPRL) (AHEJ4L) Ckt tripped on R-Y phase to phase fault with fault distance of 14km and fault current of 6.7KA from Adani Fatehgarh Solar Park end. During inspection, broken insulator was found at 220 KV AHEJAL PSS 2 (ASPS2) (IP) gantry. iii)Due to tripping of 220 KV AHEJAL PSS 2 HB_FGRAH_FBT (AHEJ4L)-Adani RenewPark_SL_FGARH_FBT (AREPRL) (AHEJ4L) Ckt, 220 KV AHEJAL PSS 2 (ASPS2) (IP) S/s lost its connectivity from grid and blackout occurred at 220 KV AHEJAL PSS 2 (ASPS2) (IP) S/s. iv)As per PMU at 400KV Adani Fatehgarh(IP), R-Y phase to phase fault (voltage dipped upto 0.823 p.u.) is observed with fault clearing time of 120ms. v)As per PMU, solar generation loss of approx. 280 MW was observed at 220 KV AHEJAL PSS 2 (ASPS2) (IP).	1) 220 KV AHEJAL PSS 2 HB_FGRAH_FBT (AHEJ4L)-Adani RenewPark_SL_FGARH_FBT (AREPRL) (AHEJ4L) Ckt

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						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
7	GD-1	Rajasthan	14-01-2025 13:13	14-01-2025 14:36	01:23	473	0	0.899	0.000	52585	57053	<p>i) Generation of 220kV Nokhra (IP) and 220kV RSDCL-4(IP) stations evacuate through 220 KV Nokhra SL_BHD2 (NTPC)-Bhadla_2 (PG) (NTPC_NOKHRA) Ckt and 220 KV Bhadla_2 (PG)-RSDCL(PSS4)_SL_BHD2_PG (RSDCL) Ckt respectively.</p> <p>ii) During antecedent condition, 220kV Nokhra (IP) and 220kV RSDCL-4(IP) were generating approx. 295 MW and 178 MW respectively (as per PMU).</p> <p>iii) As reported, at 13:13hrs, 220 KV Bhadla_2 (PG)-RSDCL(PSS4)_SL_BHD2_PG (RSDCL) Ckt tripped on B-N phase to earth fault with fault distance of 1.3km and fault current of 23.4kA from Bhadla2(PG) end. During inspection it was found that jumper snapped out at tower location no. 8.</p> <p>iv) During the same time, 220 KV Nokhra SL_BHD2 (NTPC)-Bhadla_2 (PG) (NTPC_NOKHRA) Ckt along with 220/33 KV 100 MVA ICT 1, 2 and 3 at Nokhra SL_BHD2 (NTPC) also tripped. Line tripped from Nokhra(NTPC) end only (exact reason of tripping and nature of protection operated yet to be shared).</p> <p>v) Due to tripping of 220 KV Nokhra SL_BHD2 (NTPC)-Bhadla_2 (PG) (NTPC_NOKHRA) Ckt and 220 KV Bhadla_2 (PG)-RSDCL(PSS4)_SL_BHD2_PG (RSDCL) Ckt, 220kV Nokhra (IP) and 220kV RSDCL-4(IP) S/s lost their connectivity from grid and blackout occurred at 220kV Nokhra (IP) and 220kV RSDCL-4(IP) S/s.</p> <p>vi) As per PMU at 220kV Nokhra(NTPC), B-N phase to earth fault (voltage dipped upto 0.269 p.u.) is observed with fault clearing time of 80ms.</p> <p>vii) As per PMU, solar generation loss of approx. 295 MW at Nokhra(IP) and 178 MW at RSDCL-4(IP) were observed.</p>	<p>1) 220 KV Bhadla_2 (PG)-RSDCL(PSS4)_SL_BHD2_PG (RSDCL) Ckt</p> <p>2) 220 KV Nokhra SL_BHD2 (NTPC)-Bhadla_2 (PG) (NTPC_NOKHRA) Ckt</p> <p>3) 220/33 KV 100 MVA ICT 1 at Nokhra SL_BHD2 (NTPC)</p> <p>4) 220/33 KV 100 MVA ICT 2 at Nokhra SL_BHD2 (NTPC)</p> <p>5) 220/33 KV 100 MVA ICT 3 at Nokhra SL_BHD2 (NTPC)</p>
8	GD-1	Rajasthan	22-01-2025 09:13	22-01-2025 11:54	02:41	54	0	0.103	0.000	52270	64710	<p>i) Generation of 220kV Anta station evacuate through 220 KV Anta(NT)-Sakatpura(RS) (RS) Ckt-1, 220 KV SAWAIMADHOPUR(RS)-Anta(NT) (PG) Ckt-1, 220 KV ANTA(NT)-BHILWARA(RS) (PG) Ckt-1 & 2, 220 KV LALSOTE(RS)-Anta(NT) (PG) Ckt-1 and 220 KV RAPS_C(NP)-ANTA(NT) (PG) Ckt-1 respectively.</p> <p>ii) During antecedent condition, GT-1, II & III, 220 KV ANTA(NT)-BHILWARA(RS) (PG) Ckt-1 & 2, 220 KV RAPS_C(NP)-ANTA(NT) (PG) Ckt-1 were under shutdown respectively (as per PMU).</p> <p>iii) As reported, at 09:13hrs, 220 KV Anta(NT)-Sakatpura(RS) (RS) Ckt-1 tripped on B-N phase to earth fault with fault distance of 54.5km and fault current of 1.07kA from Anta end(22 Operated). During the inspection it was found that B-Phase CT of 220 KV Anta(NT)-Sakatpura(RS) (RS) Ckt-1 failed on Sakatpura end. And this led to the blackout of 220kV Anta substation.</p> <p>iv) Again at 10:10 hrs, 220 KV SAWAIMADHOPUR(RS)- Anta(NT) (PG) Ckt-1 which was carrying 52MW load tripped due to high voltage (details of tripping awaited).</p> <p>v) As per PMU at 400kV Kota(PG), B-N phase to earth fault (voltage dipped upto 0.71 p.u.) is observed with fault clearing time of 120ms.</p> <p>vi) As per PMU, solar generation loss of approx. 38 MW at 09:13 hrs and 54 MW at 10:10 hrs occurred in Anta was observed.</p>	<p>i) 220 KV Anta(NT)-Sakatpura(RS) (RS) Ckt-1</p> <p>ii) 220 KV SAWAIMADHOPUR(RS)- Anta(NT) (PG) Ckt-1</p>
9	GD-1	Haryana	23-01-2025 06:09	23-01-2025 07:50	01:41	0	0	0.000	0.000	35877	48363	<p>i) 220/132/33kV HUKMAWALI S/stn sub-station has double main bus scheme in all voltage level.</p> <p>ii) During antecedent condition, 220 KV Fatehabad(PG)-Hukmawali (HV) (HVPNL) Ckt-1, 220 KV Fatehabad(PG)-Hukmawali (HV) (HVPNL) Ckt-2, and 220 KV HUKMAWALI(HV)-CHORMAR(HV) Ckt-1 were carrying 27MW, 28MW and 19MW load respectively.</p> <p>iii) As reported at 06:09hrs, B-phase CT of 220 KV HUKMAWALI(HV)-CHORMAR(HV) Ckt-1 exploded and thereby led to Bus bar protection operation. This resulted in tripping of all the elements connected to 220kV Bus bar. As a result, the Sub-station lost its connectivity to the Grid and Blackout occurred.</p> <p>iv) As per DR and EL of 220 KV Fatehabad(PG)-Hukmawali (HV) (HVPNL) Ckt-1 at 220kV Fatehabad, the line tripped due to Main-1, Zone-2 protection operation. The fault current in B phase was 6.8KA and Y phase was 7.4KA.</p> <p>v) As per PMU at 400 Fatehabad (PG), B-N fault converted to Y-B-N fault is observed with delayed fault clearing time of 400ms.</p> <p>vi) As per SCADA, no change in demand in Haryana control area is observed.</p>	<p>i) 220 KV Fatehabad(PG)-Hukmawali (HV) (HVPNL) Ckt-1</p> <p>ii) 220 KV Fatehabad(PG)-Hukmawali (HV) (HVPNL) Ckt-2</p> <p>iii) 220 KV HUKMAWALI(HV)-CHORMAR(HV) Ckt-1</p> <p>iv) 220 KV HUKMAWALI(HV)-CHORMAR(HV) Ckt-2</p>
10	GI-I	Rajasthan	24-01-2025 16:38	24-01-2025 18:31	01:53	269	0	0.515	0.000	52270	64710	<p>i) Generation of 220kV Tata Power Saurya Banderwala evacuate through 220 KV BTPLSL_SL_BIK2_PG-Bikaner_2 (PBTS) (BANDERWALA_TPSL) Ckt.</p> <p>ii) During antecedent condition, 220 KV BTPLSL_SL_BIK2_PG-Bikaner_2 (PBTS) (BANDERWALA_TPSL) Ckt was evacuating 126MW of load (as per PMU).</p> <p>iii) As reported, at 16:38hrs, 220 KV BTPLSL_SL_BIK2_PG-Bikaner_2 (PBTS) (BANDERWALA_TPSL) Ckt tripped on B-N phase to earth fault. (exact reason of tripping and nature of protection operated yet to be shared). Due to tripping of the evacuation path, the sub-station lost its connectivity from grid and blackout occurred at 220 kV Tata Power Saurya Banderwala S/S.</p> <p>iv) As per PMU at TPS8, B-N phase to earth fault (voltage dipped upto 0.02 p.u.) is observed with unsuccessful A/R operation is observed.</p> <p>v) As per PMU, solar generation loss of approx. 126MW of Generation loss had occurred in TPS8 and 269 MW of change in NR Solar generation was observed.</p>	<p>i) 220 KV BTPLSL_SL_BIK2_PG-Bikaner_2 (PBTS) (BANDERWALA_TPSL) Ckt-1</p>
11	GI-2	Uttar Pradesh	29-01-2025 12:09	29-01-2025 12:58	00:49	0	252	0.000	0.392	56638	64270	<p>i) 400/220/132kV Jehta S/stn sub-station has double main bus scheme in all voltage level.</p> <p>ii) During antecedent condition, 400/220 KV 500 MVA ICT-1 & ICT-2 were connected to 400kV bus-1 and bus-2 respectively carrying 107MW of load each. 220/132kV ICT-3 and ICT-4 were carrying 35MW load each.</p> <p>iii) As reported at 12:09 hrs, 400/220kV ICT -1 and ICT-2 tripped due to Bus Bar protection. This led to further tripping of 220/132kV ICT-3 and ICT-4 downstream along with tripping of both 220kV Bus-1 and Bus-II. As a result, all the elements connected to 220kV Bus Bar tripped.</p> <p>iv) DR and EL submitted by S/DC for 400/220kV ICT-1 and 2, shows Bus Bar protection operation. However as per PMU no fault was observed. Reason of operation of bus bar protection need to be shared.</p> <p>v) As per SCADA, 252MW of change in demand is observed in Rajasthan control area.</p>	<p>i) 220/220 KV 500 MVA ICT 1 at Jehta_Haridra Road (UP)</p> <p>ii) 220/220 KV 500 MVA ICT 2 at Jehta_Haridra Road (UP)</p> <p>iii) 220/132KV 200 MVA ICT 1 at Jehta(UP)</p> <p>iv) 220/132KV 200 MVA ICT 2 at Jehta(UP)</p> <p>v) 220kV Jehta_Haridra Road (UP) ckt-1</p> <p>vi) 220kV Jehta_Haridra Road (UP) ckt-2</p> <p>vii) 220kV Jehta_Haridra Road (UP) ckt-1</p> <p>viii) 220kV Jehta_Haridra Road (UP) ckt-2</p> <p>ix) 220kV Bus coupler at Jehta(UP)</p>

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



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 (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	23:46 / 09-01-2025	03:00 / 15-01-2025	123:14	95	-	0.14%	-	65864	52860	At 23:46 hrs / 09-01-2025, 220 kV Bhuj-Gadhhsia tripped on R-B phase to phase fault. During patrolling, it was found that the top cage section of tower 15/1 was damaged due to conductor theft. Due to loss of single evacuation transmission line 220 kV Gadhhsia substation became dead. Generation loss of 95 MW occurred at Gadhhsia (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1.220 kV Bhuj-Gadhhsia-1
2	GD-1	WR	11:13 / 11-01-2025	12:28 / 11-01-2025	01:15	35	-	0.04%	-	85437	76571	At 11:13 hrs / 11-01-2025, 220 kV Bhuj-Kotda Madh-1 tripped from Kotda Madh end only due to receipt of DT signal from Bhuj end. The tripping was due to maloperation as there were no relay indications reported at Bhuj end. PMU stopped reporting after the tripping. Due to loss of single evacuation transmission line 220 kV Kotda Madh substation became dead. Generation loss of 35 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-1
3	GD-1	WR	15:08 / 12-01-2025	15:55 / 12-01-2025	00:47	76	-	0.10%	-	75422	68599	At 15:08 hrs / 12-01-2025, 220 kV Bhuj-Kotda Madh-1 tripped from Kotda Madh end only due to receipt of DT signal from Bhuj end. The tripping was due to maloperation as there were no relay indications reported at Bhuj end. PMU stopped reporting after the tripping. Due to loss of single evacuation transmission line 220 kV Kotda Madh substation became dead. Similar tripping due to receipt of false DT signal occurred at 15:08 hrs / 12-01-2025. Generation loss of 76 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-1
4	GD-1	WR	11:57 / 14-01-2025	14:02 / 14-01-2025	02:05	18	-	0.02%	-	75743	66419	At 11:57 hrs / 14-01-2025, 220 kV Nakhatrana-Dedhiya-1 line tripped on R-Y fault on Z-1 from Nakhatrana and Dedhiya end. Simultaneously, 220 kV Nakhatrana-Bhuj II-1 tripped from nakhatrana end which was undesirable. Due to loss of single evacuation transmission line 220 kV Nakhatrana and Dedhiya (Adani) substations became dead. Generation loss of 18 MW occurred at Nakhatrana and Dedhiya (Adani) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1.220 kV Nakhatrana-Dedhiya-1 2.220kV Nakhatrana-Bhuj II-1
5	GD-1	WR	02:40 / 18-01-2025	04:50 / 18-01-2025	02:10	-	180	-	0.35%	62688	51635	At 02:40 hrs / 18-01-2025, 220 kV side R-phase CT of 220/132 kV Raigarh-ICT-2 at 220kV-Raigarh (CG) failed. After 600 msec R phase of jumper of auxiliary bus section side of 220/132 kV Raigarh-ICT-2 got disconnected resulting in tripping of all connected elements at 220 kV Raigarh(CG). Load loss of about 180 MW occurred at Raigarh(CG) and down stream network due to the event.	Tripping of following Elements: 1. 220 kV Raigarh(CG)-Raigarh(PG)-1,2&3 2. 220 kV Raigarh(CG)-Bus-1&2 3. 220 kV Raigarh(CG)-Saraipali-1 4. 220 kV Raigarh-Korba(E)-1 5. 220/132 kV Raigarh-ICT-1,2&3 (160 MVA)
6	GD-1	WR	04:22 / 19-01-2025	04:55 / 19-01-2025	00:33	-	300	-	0.57%	65705	52637	At 04:22 hrs / 19-01-2024, 220 kV Morbi-Hadala-1 tripped on R-E fault due to R-phase CVT blast at Morbi. Simultaneously, bus bar protection operated due to flames of blasted CVT coming in induction zone of 220 kV Morbi-Bus-1 (Single main and transfer bus) which lead to tripping of all connected elements. Load loss of 300 MW occurred at Morbi and related downstream network due to the event.	Tripping of following Elements: 1.220 kV Morbi-Hadala-1 2.220 kV Morbi-Bus-1 3.220 kV Morbi-Vondh-1 4.220/66 kV Morbi-ICT-1,2&3 5.220 kV Morbi-Shivlakh-1&2 6.220 kV Morbi-Lalpar-1 7.220 kV Morbi-Bhimasar-1
7	GD-1	WR	13:12 / 24-01-2025	13:26 / 24-01-2025	00:14	-	200	-	0.28%	79809	71897	At 13:12 hrs / 24-01-2025, 220 kV Ponda-Bus-1 tripped on Bus bar protection mal-operation during closing of 220 kV Amona Buscoupler. Prior to the incident, 220 kV Ponda-Bus-2 (which was feeding 220 kV Tillari and 220 kV Mahalaxmi through 220 kV Amona) became dead due to tripping of 220 kV Tillari-Amona-1 and 220 kV Mahalaxmi-Amona-1 at 12:55 / 24-01-2025. Further during closing of bus coupler at 220 kV Amona (for restoration works), 220 kV Ponda-Bus-1 Bus bar protection mal-operation. Load loss of 200 MW occurred at Ponda due and near by network in Goa due to the event.	Tripping of following Elements: 1. 220 kV Ponda-Bus-1 2. 220 kV Mapusa-Ponda-1 3. 220/33 kV Ponda ICT-1 4. 220/110 kV Ponda ICT-2 (100 MVA)
8	GD-1	WR	10:09 / 27-01-2025	12:57 / 27-01-2025	02:48	200	-	0.24%	-	84790	78146	At 10:09 hrs / 27-01-2025, 400/33 kV Khirsara-ICT-1 (300 MVA) tripped on Over Excitation. 400 kV Khirsara-Varsana-1 tripped on AC directional over current relay operation which was undesirable. The line was 400 kV Khirsara-Varsana-1 without attending the issue at 12:57 hrs / 27-01-2025 which was resolved by taking emergency shutdown of 400 kV Khirsara-Varsana-1 at 20:25 hrs / 27-01-2025 for checking wiring of CTs and IR values measurement. Generation loss of 200 MW occurred at Khirsara (Gaya Solar-Adani) Solar power plant due to loss of evacuation path.	Tripping of following Elements: 1. 400 kV Khirsara-Varsana-1 2. 400/33 kV Khirsara-ICT-1 (300 MVA)

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



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 (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)		
9	GD-1	WR	03:01 / 28-01-2025	04:29 / 28-01-2025	01:28	56	-	0.09%	-	63265	55237	At 03:01 hrs / 28-01-2025, 220 kV Indore(PG)-Pritamnagar-1 tripped on R-E fault from Pritam Nagar end only. Autorecloser successful at Indore (PG) end. During patrolling no abnormalities were found. Due to loss of single evacuation transmission line 220 kV Pritam Nagar substation became dead. Generation loss of 56 MW occurred at Pritam Nagar (Adani) Wind power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Indore(PG)-Pritamnagar-1
10	GD-1	WR	13:12 / 28-01-2025	13:57 / 28-01-2025	00:45	-	186	-	0.25%	79067	73125	At 13:12 hrs / 28-01-2025, 220 kV Tivim-Bus-1 (Main and Transfer bus scheme) tripped on Bus bar protection operation resulting in tripping 220 kV Mapusa-Tivim-1&2. An object coming in induction zone of bus due to high wind resulted in busbar protection operation and substation became dead. Due to loss of both evacuation transmission lines 220 kV Tivim (Goa) substation became dead. Load loss of 186 MW occurred at Tivim due to the event.	Tripping of following Elements: 1. 220 kV Mapusa-Tivim-1&2 2. 220/110 kV Tivim-ICT-1,2&3
11	GD-1	WR	13:19 / 30-01-2025	21:27 / 30-01-2025	08:08	1	-	0.00%	-	63265	55237	At 13:19 hrs / 30-01-2025, 220 kV Bhuj-Gadhsisa tripped on Y-B phase to phase fault. During patrolling, tree was found in induction zone. The line was test charged at 14:58 hrs / 30-01-2025 and didn't hold. Due to loss of single evacuation transmission line 220 kV Gadhsisa substation became dead. Generation loss of 1 MW occurred at Gadhsisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhsisa-1
12	GD-1	WR	17:20 / 30-01-2025	18:20 / 30-01-2025	01:00	-	888	-	1.24%	78134	71885	At 17:20 hrs / 30-01-2025, multiple trippings occurred at 400/220 kV Kansari substation during charging of 400 kV Kansari Bus Reactor-2 (125 MVA) which was out on voltage regulation. Y-phase pole 400 kV Kansari-Bus Reactor-2 circuit breaker didn't close properly while charging causing increased current in R and B phases, which resulted in flashover. Busbar protection didn't operate and elements connected to 400/220 kV Kansari tripped due to persisting fault. Load loss of 888 MW occurred at Kansari and downstream network due to the event. Detailed inspection is in progress.	Tripping of following Elements: 1. 220 kV Kansari-Bus-1&2 2. 400/220 kV Kansari-ICT-1,2,3&4 (315 MVA) 3. 400 kV Kansari-Veludra-1 4. 400 kV Charanka-Kansari-1&2 5. 400 kV Kansari-Bus Coupler 6. 400 kV Soja-Kansari-1,2&3 7. 400 kV Banasirtha-Kansari-1 8. 400 kV Kankoli-Kansari-1 9. 220/110 kV Kansari-ICT-1,2,3&4 (110 MVA) 10. 400 kV Kansari-Bus Reactor-2 (125 MVA) 11. 220 kV Kansari-Deodar-1&2 12. 220 kV Kansari-Tharad-1 13. 220 kV Kansari-Aghha-1 14. 220 kV Kansari-Thavar-1&2 15. 220 kV Kansari-Jangral-1&2 16. 220 kV Kansari-Palampur-1&2 17. 220 kV Deodhar-Radhampur-1 18. 220 kV Deodhar-Mera-1&2 19. 220 kV Tharad-Thavar-1&2 20. 220 kV Tharad-Thavar-1&2 21. 220 kV Tharad-Kamarpur-1&2

Details of Grid Events during the Month of Dec 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 (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)		
1	GD - 1	KARNATAKA	04-01-2025 13:51	05-01-2025 05:27	15:36	50	0	0.10%	0.00%	49353.0	53613.91	Complete Outage of 220kV RSRPL Koppal: As per the reports submitted, the triggering incident was B-N fault in 220kV KNTL RSRPL line and the line tripped at both ends. Tripping of the only connected line led to complete outage of 220kV RSRPL Koppal.	220KV-KOPPAL-Renew_Surya_Koppal-1
2	GD - 1	KARNATAKA	06-01-2025 21:37	06-01-2025 22:48	01:11	0	0	0.00%	0.00%	36774.05	42975.43	Complete Outage of 220kV KSPDCL SS-4 Generating station: As per the submitted reports, the triggering incident was a B-N fault in the 220kV connecting cable of the 400kV/220kV Pavagada ICT-6. Immediately, the Main-1 differential protection of the ICT operated, resulting in the tripping of the ICT. Simultaneously, the 220kV Pavagada KSPDCL-4 line tripped at the KSPDCL end due to suspected maloperation. The tripping of the only connected line led to the complete outage of the 220kV KSPDCL-4 generating station.	KSPDCL4 - 220KV, KSPDCL4 - 220KV - Bus 1, 220KV-PAVAGADA_PG-KSPDCL4
3	GD - 1	ODHRA PRADE	12-01-2025 14:16	12-01-2025 14:55	00:39	0	49	0.00%	0.09%	46935.54	53647.11	Complete Outage of 220kV/132kV Rajampet SS: As per the reports submitted, the triggering incident was B-N fault in 220kV Rajampet Koduru line. At Kuduru end, the fault was sensed in zone-2, carrier received, A/R operated and the line was holding. At Rajampet end, the fault was sensed in zone-1 but R-pole tripped instead of B-pole due to interchange of trip circuit wiring between R-Ph and B-Ph CB. Subsequently, 220kV Rajampet Cuddapah line tripped only at Cuddapah end on zone-2 distance protection. This resulted in the complete outage of 220kV/132kV Rajampet SS.	220KV-CUDDAPAH-RAJAMPET-1, 220KV-RAJAMPET-KODURU-1
4	GD - 1	KARNATAKA	23-01-2025 13:02	23-01-2025 13:32	00:30	0	112	0.00%	0.19%	50589.15	58407.23	Complete Outage of 220kV/66kV Exora SS, 220kV/66kV Vikas Tech and 220kV Bus-1 Outage at 220kV/66kV Malur SS of KPTCL: 220kV Malur SS was operating with split bus condition with 220kV Hoody Malur line feeding 220kV Malur Bus-1. 220kV/66kV Exora and 220kV/66kV Vikas Tech Park were being radially fed from 220kV Malur Bus-1. As per the reports submitted, the triggering incident was tripping of 220kV Hoody Malur line on DEF maloperation at Malur end. Tripping of this line led to loss of power supply to 220kV Malur Bus-1 which intrun led to complete outage of 220kV/66kV Exora SS and 220kV/66kV Vikas Tech Park.	220KV-HOODY-MALUR-1
5	GD - 1	KARNATAKA	26-01-2025 10:07	26-01-2024 12:33	02:26	0	78	0.00%	0.14%	53360.79	55139.43	Complete Outage of 220kV/66kV Exora SS, 220kV/66kV Vikas Tech and 220kV Bus-1 Outage at 220kV/66kV Malur SS of KPTCL: 220kV Malur SS was operating with split bus condition with 220kV Hoody Malur line feeding 220kV Malur Bus-1. 220kV/66kV Exora and 220kV/66kV Vikas Tech Park were being radially fed from 220kV Malur Bus-1. As per the reports submitted, the triggering incident was Y-N fault in 220kV Hoody Malur line. Tripping of this line led to loss of power supply to 220kV Malur Bus-1 which intrun led to complete outage of 220kV/66kV Exora SS and 220kV/66kV Vikas Tech Park.	220KV-HOODY-MALUR-1
6	GD - 1	KERALA	27-01-2025 15:38	27-01-2025 15:42	00:04	0	259	0.00%	0.44%	50671.88	59276.69	Complete Outage of 220kV/110kV Thlassery SS, 220kV/110kV Kanhirode SS, 220kV/110kV Ambalathara SS, 220kV/110kV Mylatti SS, 220kV/110kV Taliparamba SS and 220kV/110kV Orkattery SS of KSEB: 220kV/110kV Thlassery SS, 220kV/110kV Kanhirode SS, 220kV/110kV Ambalathara SS, 220kV/110kV Mylatti SS, 220kV/110kV Taliparamba SS and 220kV/110kV Orkattery SS are being radially connected through 220kV Areakode Orkattery line and 220kV Areakode Kanhirode line. During antecedent conditions, 220kV Areakode Kanhirode was under outage. The triggering incident was B-N fault in 220kV Areakode orakattery Line and the line tripped. Tripping of the only connected line led to complete outage of 220kV/110kV Thlassery SS, 220kV/110kV Kanhirode SS, 220kV/110kV Ambalathara SS, 220kV/110kV Mylatti SS, 220kV/110kV Taliparamba SS and 220kV/110kV Orkattery SS.	220KV-AREACODE-ORKKATTERY-1

Details of Grid Events during the Month of Dec 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 (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)		
7	GD - 1	ANDHRA PRADESH	31-01-2025 02:13	31-01-2025 03:49	01:36	0	0	0.00%	0.00%	35732.4	44445.14	Complete Outage of 220kV Nagarjun Sagar AP SWS of APTRANSCO: As per the reports submitted, due to operation of 220kV Bus-1 and Bus-2 BBP there was complete outage of 220kV Nagarjun Sagar AP SWS.	220KV-NAGARJUNASAGAR_AP-NAGARJUNASAGAR_TS-2, 220KV-NAGARJUNASAGAR_AP-NAGARJUNASAGAR_TS-3, 220KV-NAGARJUNASAGAR_TS-CHALAKURTHY-1, 400KV/220KV NAGARJUNASAGAR_PG-ICT-1, 400KV/220KV NAGARJUNASAGAR_PG-ICT-2, 400KV/220KV NAGARJUNASAGAR_PG-ICT-3, 220KV-NAGARJUNASAGAR_AP-RENTACHINTHALA-1, 220KV-NAGARJUNASAGAR_AP-RENTACHINTHALA-2, 220KV-NAGARJUNASAGAR_AP-INAPARAIUPALLI-1, 220KV-NAGARJUNASAGAR_AP-INAPARAIUPALLI-2
8	GD - 1	TAMILNADU	31-01-2025 15:27	31-01-2025 19:55	04:28	0	0	0.00%	0.00%	53705.05	62784.57	Complete Outage of 230kV JSW_Dharapuram Wind Station: As per the reports submitted, the triggering incident was tripping of 230kV Karur JSW_Dharapuram-1 line at Karur end on DEF protection and DT was received at Dharapuram end. Tripping of the only connected line led to complete outage of 230kV JSW_Dharapuram Wind Station.	KARUR_JSW_Dharapuram_1 - 230KV
9	GI-1	TAMILNADU	04-01-2025 02:26	04-01-2025 07:12	04:46	0	0	0.00%	0.00%	31675.11	39089.73	Tripping of 230kV Bus-1 of 400kV/230kV Kudankulam Generating Station: As per the reports submitted, the triggering incident was LBB maloperation in Kudankulam GT-1. All elements connected to 230kV Bus-1 tripped resulting in the outage of 230kV Bus-1 of 400kV/230kV Kudankulam Generating Station.	230KV-KUDANKULAM-5 R PUDUR, 400KV/230KV KUDANKULAM-ICT-1
10	GI-1	KARNATAKA	19-01-2025 10:33	19-01-2025 16:17	05:44	0	55	0.00%	0.10%	48059.26	53959.64	Tripping of 220kV Bus-2 at 220/66kV YERRAANDAHALLI SS: In the antecedent conditions, 220/66kV YERRAANDAHALLI is operating in Bus split condition at 220kV level, where in 220kV Bus-2 was radially connected to 220kV Yerrahandalli Hosur line. The tripping of the only line connected to Bus-2 led to the tripping of 220kV Bus-2 at 220/66kV YERRAANDAHALLI SS.	YERRAANDAHALLI Hosur - 220KV
11	GI-1	ANDHRA PRADESH	25-01-2025 08:14	25-01-2025 08:57	00:43	0	0	0.00%	0.00%	49169.59	57892.52	Tripping of 220kV Bus-2 of 220kV Lower Sileru PH of APGENCO: As per the reports submitted, the triggering incident was Unit-1 LBB operation due to spurious current in Unit-1 CB though the CB is open. Immediately, all elements connected to 220kV Bus-2 tripped.	220KV-ASUPAKA-LOWER_SILERU-1, 220KV-LOWER_SILERU-Chintur-1, LOWER_SILERU - 220KV - Bus 2
12	GI-2	ANDHRA PRADESH	27-01-2025 12:24	27-01-2025 13:14	00:50	600	0	1.08%	0.00%	55321.79	60170.0	Tripping of 400kV Bus-2 of 400kV VTPS Generating station of APGENCO: As per the reports submitted, the triggering incident was LBB maloperation in GT-8 of VTPS Generating station. Immediately, LBB operated and all elements connected to 400kV VTPS Bus-2 tripped.	400KV-NELLORE_AP-VTPS_IV-3
13	GI-1	ANDHRA PRADESH	27-01-2025 15:53	27-01-2025 19:21	03:28	0	0	0.00%	0.00%	46774.4	55723.01	Tripping of 220kV Bus-1 of 220kV Gooty SWS of APTRANSCO: As per the reports submitted, the triggering incident was YN fault in 220kV Bus-1 Gooty SWS. Immediately Bus-1 BBP operated and all elements connected to 220kV Gooty SWS Bus-1 got tripped.	400KV/220KV GOOTY-ICT-3, GOOTY-SWS - 220KV - Bus 1
14	GI-1	TELANGANA	27-01-2025 17:22	27-01-2025 17:47	00:25	0	0	0.00%	0.00%	46247.29	53478.61	Tripping of 220kV Bus-2 of 220kV Nagarjun Sagar PH of TGGENCO: As per the reports submitted, the triggering incident was R-N fault in the stator of Unit-8 while synchronising Unit-8 to the Grid. Immediately, Class A Generator protection operated. However, R-pole failed to open causing LBB to operate. Immediately, all elements connected to 220kV Bus-2 of Nagarjun Sagar PH tripped.	220KV-NAGARJUNASAGAR_AP-NAGARJUNASAGAR_TS-2, 220KV-NAGARJUNASAGAR_AP-NAGARJUNASAGAR_TS-3

Details of Grid Events during the Month of Dec 2024 in 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 (H: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-I	NTPC BARH	04.01.2025 19:23	04.01.2025 19:47	00:24	1800	0	5.91%	0.00%	30472	23247	Pre event: (400 kv Barh-Kahalgaon-2 & 400 kv Barh-Patna-1&2 Under continuous S/d) (400 KV Barh-Patna-4 Under breakdown) (400 kv Barh-Motihari-2 Under emergency S/d for rectification of B/D line). Event: At 19:17 Hrs, 400 KV Barh-Patna-3 tripped from Barh on O/c. After six minutes at 19:23 Hrs, 400 kv Barh-Motihari-1 tripped due to Y_N fault . Subsequently, after 9 seconds, 400 kv Barh-Kahalgaon-1 also tripped on O/c from Barh. This led to total power failure at Barh at 19:23 Hrs. Generation loss of around 1800 MW occurred.	400 kv Barh-Patna-3 400 kv Barh-Motihari-1 400 kv Barh-Kahalgaon-1
3	GD-I	GODDA	16.01.2025 17:17	16.01.2025 17:40	00:23	0	120	0.00%	0.52%	30073	23247	At 17:17 Hrs, Tenughat unit-2 tripped due to turbine vibration issue. Unit-1 was already under forced outage since 14/01/2025 on Boiler tube leakage. Outage of both the units of Tenughat led to overloading of 220 kv Maithon - Dumka D/C which further resulted in SPS operation at dumka. As Godda is radially fed from Dumka, SPS operation at Dumka S/s resulted in tripping of 220 kv Dumka-Godda D/C and 132kv-Dumka-Pakur D/C. Total load loss of 120 MW occurred at 220 kv Godda S/s and 132 kv Pakur S/s.	220 kv Dumka- Godda-1 220 kv Dumka- Godda-2 132 kv Godda-Pakur D/C
4	GD-I	JSPL(CPP)	25.01.202505:13	25.01.202505:40	00:27	420	445	1.57%	2.46%	26701	18065	400KV-MEERAMUNDALI-JSPL D/C tripped at 05:13 Hrs due to Y-B fault. Both Bus at 400 kv JSPL became dead as it was radially connected to 400 kv Meramundali S/S. Captive power plant JSPL has 6 units of 135 MW capacity each. Unit-1 with emergency load of 90 MW was separately connected with 220 kv Bus-1 (220 kv bus-coupler remaining open). Unit-2 of JSPL was under overhauling and other 4 units (unit-3,4,5,6) connected to 220 kv Bus-2 were generating around 420 MW and rest around 25 MW was imported from grid for its captive load. As both evacuating lines tripped, the captive island didn't survive. 420 MW generation loss and 445 MW load loss occurred at JSPL.	400 kv JSPL-Meeramundali-1 400 kv JSPL-Meeramundali-2 UH#3,4,5,6 (135 MW) each at JSPL
5	GD-I	JSPL(CPP)	25.01.202506:49	25.01.202503:26	06:37	0	40	0.00%	0.19%	30173	21506	400KV-MEERAMUNDALI-JSPL-1 tripped at 06:49 Hrs due to 3 ph fault(Insulator decapping in B Phase of JSPL-Meramundali-1). Ckt-2 was under breakdown condition. Both Bus at 400 kv JSPL became dead as it was radially connected to 400 kv Meramundali S/S. All units of JSPL under tripped condition and JSPL was imported 40 MW from grid. Total load loss of around 40 MW occurred.	400 kv JSPL-Meeramundali-1
6	GD-I	JSPL(CPP)	26.01.202506:06	26.01.202503:26	07:20	320	335	1.08%	1.74%	29633	19228	400KV-MEERAMUNDALI-JSPL-1 tripped at 06:06 Hrs due to R-ph Pilot insulator decapped at Loc No 97(Ckt-2 was under breakdown condition due to R-B Ph Insulator decapped at Loc No 96 from 05:31 Hrs). Both Bus at 400 kv JSPL became dead as it was radially connected to 400 kv Meramundali S/S. Captive power plant JSPL has 6 units of 135 MW capacity each. Unit-1 with emergency load of 90 MW was separately connected with 220 kv Bus-1 (220 kv bus-coupler remaining open). Unit-2 of JSPL was under overhauling and other 4 units (unit-3,4,5,6) connected to 220 kv Bus-2 were generating around 320 MW and rest around 15 MW was imported from grid for its captive load. As both evacuating lines tripped, the captive island didn't survive. 320 MW generation loss and 335 MW load loss occurred at JSPL.	400 kv JSPL-Meeramundali-1 UH#3,4,5,6 (135 MW) each at JSPL

Details of Grid Events during the Month of Dec 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	Napit and Niglok areas of Arunachal Pradesh Power System ☐	07-01-2025 22:25	08-01-2025 13:12	14:47:00	0	5	0.00%	0.24%	1886	2061	<p>Napit and Niglok areas of Arunachal Pradesh Power System were connected with rest of NER Grid via 132 kV Pasighat- Napit D/C Lines.</p> <p>At 22:25 Hrs of 07-01-2025, 132 kV Pasighat-Napit D/C Lines tripped. Due to tripping of these elements, Napit and Niglok areas of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in these areas.</p> <p>Power supply was extended to Napit and Niglok areas of Arunachal Pradesh Power System by charging 132 kV Pasighat-Napit line 1 at 13:12 Hrs of 08.01.2025</p>	132 kV Pasighat- Napit D/C Lines
2	GD I	Daporijo area of Arunachal Pradesh Power System ☐	13-01-2025 15:45	13-01-2025 17:27	01:42:00	0	3	0.00%	0.14%	2010	2090	<p>Daporijo area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Daporijo-Basar line. 132 kV Ziro – Daporijo line tripped at 15:00 Hrs of 13-01-2025.</p> <p>At 15:45 Hrs of 13-01-2025, 132 kV Daporijo-Basar line tripped. Due to tripping of this element, Daporijo area of Arunachal Pradesh Power System got isolated from NER Grid and collapsed due to no source available in this area</p> <p>Power supply was extended to Daporijo area of Arunachal Pradesh Power System by charging 132 kV Ziro – Daporijo line at 17:27 Hrs of 13-01-2025.</p>	132 kV Daporijo-Basar line
3	GD I	Leshka HEP of Meghalaya Power System	20-01-2025 09:16	20-01-2025 09:36	00:20:00	62	0	2.71%	0.00%	2291	2267	<p>Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132kV Mynkre-Myntdu Leshka D/C lines</p> <p>At 09:16 Hrs of 20-01-2025, 132kV Mynkre-Myntdu Leshka D/C lines tripped. Due to tripping of these elements, Leshka HEP area of Meghalaya Power System was isolated due to loss of evacuation path. Also, during the same time Umiam stg1 Unit 1, Unit 2 and Unit 4 also tripped.</p> <p>Power supply was extended to Leshka HEP of Meghalaya Power System by charging 132kV Mynkre-Myntdu Leshka 1 line at 09:36 Hrs of 20-01-2025.</p>	132kV Mynkre-Myntdu Leshka D/C lines and Umiam stg1 Unit 1, Unit 2 and Unit 4 also tripped.
4	GD I	Along area of Arunachal Pradesh Power System	23-01-2025 18:36	23-01-2025 19:27	00:51:00	0	5	0.00%	0.18%	2914	2786	<p>Along area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Along-Basar & 132 kV Along-Pasighat lines</p> <p>At 18:36 Hrs of 23-01-2025, 132 kV Along-Pasighat and 132kV Along-Basar line tripped. Due to tripping of these elements, Along area of Arunachal Pradesh Power System got isolated from NER Grid and collapsed due to no source available in this area</p> <p>Power supply was extended to Along area of Arunachal Pradesh Power System by charging 132 kV Along-Pasighat line at 19:27 Hrs of 23-01-2025.</p>	132 kV Along-Basar & 132 kV Along-Pasighat lines