								De	tails of	Grid Eve	ents dur	ing the Month of Sept 2024 in Northern Region	🕡 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gener load during t	ration / loss of the Grid Event	% Loss of gener load w.r.t Ar Generation/L Regional Grid du Ever	ation / loss of atecedent .oad in the uring the Grid at	Antecedent Genera Regional	tion/Load in the Grid*	Brief details of the event (pre fault and past fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	Gi-1	Himachal Pradesh	05-09-2024 11:40	05-09-2024 13:30	01:50	0	90	0.000	0.138	58567	65019	(H400/220K/ Dehar(BBMB) has double main bus arrangement at 400K voltage level and single bus arrangement at 220K voltage level. (ii)A00/220K/ Dehar(BBMB) has double main bus arrangement at 400K voltage level and single bus arrangement at 220K voltage level. (ii)As reported, at 11:40 hrs, 220 KV Dehar-Ganguwal (BBMB) Cit-2 tripped on R-N phase to earth fault with fault distance of 16:28km and fault current of in="4.8kA from Dehar end. (iii)At the same lene is 20K voltage/Bab/Sangoot(H) (PHTC) Cit K 2 20K V Dehar(BBMB)-Kangoo(HP) (HP) Cit-1 also tripped from Dehar end. 220 KV Dehar(BBMB)-Kangoo(HP) (HP) Cit-1 also tripped from Dehar end. 220 KV Dehar(BBMB)-Kangoo(HP) (HP) Cit-1 tripped on backup protection. Reason of tripping of 132 XV Dehar(BBMB)-Kangoo(HP) (HP) Cit-1 syst to be received. (iv)As per PNU at Ronkhall(F)G, R-Nase to earth fault with fault clering fine of 120 mset. Is observed. (v)As per SCADA, change in demand of approx. 90 MW is observed in HP control area.	1)220 KV Dehar(BBMB)-Kangoo(HP) (HP) (Xt-1 2)220 KV Dehar-Ganguwal (BBMB) Cit-2 3)132 KV Dehar(BBMB)-Kangoo(HP) (HPPTCL) Ckt
2	GD-1	Uttarakhand & Himachal Pradesh	05-09-2024 11:54	05-09-2024 12:25	00:31	335	189	0.573	0.290	58456	65133	During antecedent condition, all the four 30MW units of Khadri HEP, all four 60 MW units of Chihoro HEP, 11 25MW Unit-2 & Unit-3 of Dhakrani HEP and both 30 MW (During antecedent condition, all the four 30MW units of Khadri HEP, Chihoro HEP, Dhakrani HEP & Giri HEP were approx. 90 MW, 200 MW, 10 MW & 58 MW (as per 5CADA). Total generation of Chihoro HEP was executing through 22 KV Khodri -Chihoro (HEP, Dhakrani HEP & Giri HEP were approx. 90 MW, 200 MW, 10 MW & 58 MW (as per 5CADA). Total generation of Chihoro HEP was executing through 22 KV Khodri -Chihoro (HD). Stanward(IV) (UP) Chi tripped on A+ Jubae to earth fault with faul distance of 44 km & 61 km and fault current of 25 KA & 21 A from Khodri (K) and samawar(UP) end respectively. Une tripped on Taxone -1 distance protection from both ends. MIJK te was ent in me; 20 KV Khodri (UH, Alguer) (MI) (UP) (Chi tripped on A+ Vhadre and Taxone -1 distance protection from hard (K) (K) ct also tripped (easet reason of tripping is yet to be received). Jobus to tripping of 220 kV lines from Shodri (K) (H) end (H) (H) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K	1226 (V Khodri (UK), Majri (Gini (HP) (UK) Ckt.1 2)220 (V Khodri (UK), Majri (Gini (HP) (UK) Ckt.2 2)220 (V Khodri (UK), Sanswani (HP) (UK) Ckt 4)220 (V Khodri (UK), Sanswani (HP) (UK) Ckt 5)30 (W Khodri (Uht.1 6)30 (W Khodri Uht.1 8)30 (W Khodri Uht.1 1)6)6 (W Chihoro Uht.2 1)6)6 (W Chihoro Uht.2 1)16 (SW Chihoro Uht.2 1)16 (SW Chihoro Uht.2 1)11.25 (W Ohakrani Uht.2 1)11.25 (W Ohakrani Uht.3 1)12.35 (W Ohakrani Uht.3 1)30 (W Kihoro Uht.3 1)12.35 (W Ohakrani Uht.3 1)30 (W Kihoro Uht.3 1)12.35 (W Ohakrani Uht.3 1)30 (W Kihoro Uht.3) 1)30 (W Kihoro Uht.3) 1)
3	GD-1	Uttar Pradesh	10-09-2024 13:18	10-09-2024 14:05	00:47	0	268	0.000	0.407	59493	65808	[J2DXV Nara(UP) has main and transfer bus scheme at 22DKV level. IIJAS reported, at 13:18 hm, due to lightning and inclement weather conditions, R-N phase to earth fault occurred on 22DKV main bus which led to bus bar protection operation at Nara(UP) S/A. IIIJDue to bus bar protection operation, all elements connected to 22DKV main bus i.e. 22D KV Meent[PG]-Nara(UP) [PG) Ckt, 22D KV Nara(UP)-Roorkee(UK) (UP) Ckt, 22D KV Nara-inastil UP) Ckt, 22D KV Nara(UP)-Roorkee(UK) (UP) Ckt, 22D KV Nara-inastil UP) Ckt, 22D KV Nara(UP) Ckt, 22D KV Meent(PG]-Nara(UP) [PG) Ckt, 22D KV Nara(UP)-Roorkee(UK) (UP) Ckt, 22D KV Nara(UP) S/A. NiAS per PMU at Roorkee(PG), R-N phase to earth fault with delayed fault clearance time of 320msec is observed. V/AS per S/DAX, change in demand of approx. 22D MW & 60 MW in UP and Uttarahhand control area respectively. However, SLDC-UP has reported load loss of approx. 238	1)220 KV Meerut(PG)-Nara(UP) (PG) Ckt 2)220 KV Nara;UP)-Boorkee(UK) (UP) Ckt 3)220 KV Nara-Jansath (UP) Ckt 4)220 KV Nara-Auzaffanagar (UP) Ckt 5)200/132kV 150MVA ICT-1 at Nara(UP) 6)200/132kV 120MVA ICT-2 at Nara(UP)
4	GD-1	Uttarakhand, Himachal Pradesh & Uttar Pradesh	11-09-2024 08:17	11-09-2024 08:39	00:22	308	233	0.603	0.403	51107	57813	During antecedent condition, all the fue 30MV units of thiodn HEP all Gue 40MV units of Chilbro HEP, 112SMV Unit-3 & Unit-3 of Dhaires HEP and Enth HEP were proving and cold active power generation of Khodn HEP, Chilkov HEP, Maximi HEP & Guit HEP were approval. SPMV, 200 MV, 19 MV & S B Atti generation of Chilbro HEP was executing through 22 DV Khodri-Chilbro UKI CA: 8.2.1.12 SMV Uhit-1 of Dhakmani HEP & Guit HEP were approval. SPMV 200 MV, 19 MV & S B Atti generation of Chilbro HEP was executing through 22 DV Khodri-Chilbro UKI CA: 8.2.1.12 SMV Uhit-1 of Dhakmani HEP & Guit HEP were approval. SPMV 200 MV, 19 MV & S B Atti Gill Thru, Fibrake and LeV Vision 22 MV Khodri-Chilbro UKI CA: 8.2.1.12 SMV Uhit-1 of Dhakmani HEP and North Cill deal HEP executing the central system of the benerative received.jill On this fuelt, all UAV 200 MV and the P & all Guv 60 MV units of Chilbro HEP troped on over current protection. 200 Khodri (UK) C4:2: Troped on all certainal and the Unit orecton from (Gill/P) ed J.VJ2GV (He) Res for Khodri (UK) Gill/P) (H-12, VSTA 200 MV (H) C4:2: Troped on all certainae protection of Khodri (UK) ed as compared to time delay of all cover 2 distance protection. 200 KV thodri (UK) C4:1 C1 graped end certainae and the Unit orecton from remote ends. 1 K reported thut, at Khodri (UK) of carres of troped end exet reason of troping is yet to be received.) (All per elles) in anovel 4 distance protection at Khodri (UK) ed as compared to time delay of dam ceit colsever (UK) De to troping all 220W lines (theorem 24 UK) VHodri (UK) (S troped from remote ends. 1, UK symmet to the metain of dam metain the 2 dam ceit colsever (UK) De to troping all 220W lines (theorem 24 UK) (All colsever (UK) C4:1 LeV thodri (UK) (S troped from remote ends. 1, UK symmet to the troped end dam ceit colsever (UK) De to troping all 220W lines at Khodri (UK) and Bancamure UK) and Chance and the certain dave and the certain the add dam ceit colsever (UK). De through 220W lines at Khodri (UK) and Bancamure UK) (UK) (S troped endela	1220 FM backgroup (JBC) (Asi) 2220 FW backgroup (JBC) (Asi) 2220 FW backgroup (JBC) (Asi) 3220 FW backgroup (JBC) (Asi) 3220 FW backgroup (JBC) (JBC) 5220 FW backgroup (JBC) (JBC) 5220 FW backgroup (JBC) 320 FW back
5	GI-2	Uttar Pradesh	11-09-2024 10:03	11-09-2024 11:05	01:02	350	0	0.597	0.000	58587	64190	1)765/400W Obra-C TPS(UP) has one and half breaker bus scheme at 400W & 765KV leveLijDuring antecedent condition, 660 MW Unit-1 at Obra-C TPS was generating approx. 350 MW and 400 KV Jaunpur-Obra_C. TPS (UP) CK was anti-thet charged from Obra-C end. iijAs reported, at 10:03 hrs, 400 KV Jaunpur-Obra_C. TPS (UP) CK tripped on R-N phase to earth fault with fault current of Irs*6.8kA and fault distance of approx. 35.49km from Obra-C TPS(UP) end. Line tripped on zone-1 distance protection from Obra-C end. whit has ame time, 400 KV Obra_C. TPS-Obra_B (UP) CK tripped on over current protection from Obra-B end. During the event, the current recorded was approx. Int *7.5 kA at Obra-B end It is reported that over current protection is enabled with current string of 42 kA and time setting of definite time characteristic withhout any time delay at Obra-B end for 400 VV Obra_C. TPS-Obra_B (UP) CL tripped on tripping of 400 KV Obra_C. TPS-Obra_B (UP) CL both 100MA/station transformes became deal this for toripping of 650 MV Obra_C. TPS(UP) - Link table to disruption in audilary supply of 160 Link 1.1 is reported that, audilary supply of 160 MV Unit-1.1 is reported that, audilary supply of 160 MV Unit-1.1 is reported than evaluation; in the audilary supply of 160 MV Unit-1.1 is reported than e dolardisch in abase to activitative thing that clustersize time of 40 mice is observed vialy. Protection both 100 MA/s Trippids in Angan(UP), R-M parse to carring the interfactormer) which does not provide the redundency in the audilary supply of 160 MV Unit-1.1 is reported than evaluation; in the audilary supply of 160 MV Unit-1.1 is reported than e dolardisch in abase to activitative the fold that clustersize current observed was approx. Int 20 Mice TPS-Obra_B (UP) Ck, line tripped on over current protection with max current observed was approx. Int 20 Mice TPS-Obra_B (UP) Ck, line tripped on over current protection with max current observed was approx. Int 20 Mice TPS-Obra_B (UP) Ck, line tripped on over current protection	1)400 KV Obra_C_TPS-Obra_B (UP) Ckt 2)400 KV Jaungur-Obra_C_TPS (UP) Ckt 3)660MW OBRA_C_TPS(UP) - UNIT 1

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	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
6	Gi-2	Rajasthan	13-09-2024 02:49	13-09-2024 05:01	02:12	1125	0	2.579	0.000	43616	52184	(400/220K/ Aka(R5) has one and half breaker scheme at 400K/ level and double main and transfer bus scheme at 220K/ level.il)During antecedent condition, 400/220 K/ 500 M/A (CT-1 & ICT-2 were connected to 400K/ bus-1 and 400/220 K/ 315 M/A ICT-3 & 500 M/A ICT-4 were connected to 400K/ bus-2. ii)As reported, at 02:49 hrs, Y- phase jumper of 220K/ bus-1 of 220K/ Aka-Betnara (Ct-1 and R-phase jumper of 220K/ bus-2 of 220K/ Aka-Betnara (Ct-2 and R-phase jumper of 220K/ bus-2 of 220K/ Aka-Betnara (Ct-2 and R-phase jumper of 220K/ bus-2 of 220K/ VAIS M/A ICT-4 KeV M/A ICT-4 (St-2 M/A ICT-4 KeV M/A ICT-4). The 200 M/A ICT-4 (St-2 M/A ICT-4 KeV M/A ICT-4) (St-2 M/A ICT-4 KeV M/A ICT-4) (St-2 M/A ICT-4 KeV M/A ICT-4). The 200 M/A ICT-4 (St-2 M/A ICT-4 KeV M/A ICT-4) (St-2 M/A ICT-4) (St-2 M/A ICT-4) (St-2 M/A ICT-4). The 200 M/A ICT-4 (St-2 M/A ICT-4) (St-2 M/A ICT-4). The 200 M/A ICT-4 (St-2 M/A ICT-4) (St-4) (1)400/220 kV 500 MVA ICT 1 at Akal(RS) 2)400/220 kV 500 MVA ICT 2 at Akal(RS) 3)400/220 kV 315 MVA ICT 2 at Akal(RS) 4)400/220 kV 30 MVA ICT 4 at Akal(RS) 5)220 kV Akal-Mamangar Ckt 2)220 kV Akal-Mamangar Ckt-1 8)220 kV Akal-Bhensara Ckt-2
7	GD-1	Rajasthan	13-09-2024 13:15	13-09-2024 20:10	06:55	770	0	1.302	0.000	59120	60174	(Generation of 220)/33kV Azure Power 34 (APTFL) [IP] station evacuates through 220 kV Bhadla/PG)-Azure Power 34 Solar(APTFL) (APTFL) Ckt. During antecedent condition, Azure Power 34 (APTFL) [IP] station was generating approx. 132NW (as per PNU). (I) Ser ported, at 135Nr, 220 kV Bhadle/PG)-Azure Power 34 Solar(APTFL) (ATTFL) Ckt Tupped due to 8-N phase to earth fault (B phase jumper broken), fault sensed in zone-1 from APTFL end (exact reason and location of fault yet to be shared). Illibute to tripping of 220 kV Bhadle/PG)-Azure Power 34 Solar(APTFL) (ATTFL) (Ckt. Tupped due to 8-N phase to earth fault (B phase jumper broken), fault sensed in 220/33KV Azure Power 34 (APTFL) (IP) 5/r. WAS per PNUL at Bhadla/PG), APT share boy as Solar(APTFL) (APTFL) (Ckt. Azure Power 34 (APTFL) (IP) 5/s lost its connectivity from grid and blackout occurred at 220/33KV Azure Power 34 (APTFL) (IP) 5/r. WAS per PNUL at Bhadla/PG), APT share boy as Solar(APTFL) (APTFL) (DKt, Azure Power 34 (APTFL) (IP). Solar Bhadla/PG), APT share boy as Solar(APTFL) (APTFL) (DKt, Azure Power 34 (APTFL) (IP). Solar Bhadla/PG), APT share boy as Solar(APTFL) (APTFL) (DKt, Azure Power 34 (APTFL) (IP). Solar Bhadla/PG), APT share boy as Solar(APTFL) (APTFL) (DKt, Azure Power 34 (APTFL) (IP). Solar Bhadla/PG), APT share boy as Solar(APTFL) (APTFL) (DKt, Azure Power 34 (APTFL) (IP). Solar Bhadla/PG), APT share boy as Solar(APTFL) (APTFL) (DKt, Azure Power 34 (APTFL) (IP). Solar Bhadla/PG), APT share boy as Solar APTFL (IP). Solar Bhadla/PG), APT share boy as Solar APTFL (IP). Solar Bhadla/PG), APTFL (IP) Solar Bhadla/PG), APTFL (IP). Solar Bhadla/PG), APTFL (IP) Solar Bhadla/PG), Solar Bhadla/PG), APTFL (IP) Solar Bhadla/PG), Solar Bhadla/PG), APTFL (IP) Solar Bhadla/PG), Solar Bhadla/PG), So	1]220 KV Bhadla[PG]-Azure Power 34 Solar(APTFL] (APTFL] Ckt
8	GD-1	Delhi	17-09-2024 15:05	17-09-2024 15:18	00:13	0	290	0.000	0.452	58751	64228	(J220V Park Street(DTL) 5/s has double main bus arrangement at 2208V level. 220V Dev Nagar(DTL) has only one 2208V line i.e. 220W Dev Nagar-Park Street (DTL) Ckt. Il/During antecedent condition, incoming power at Park Street(DTL) through 220KV Park Street-Pragati (DTL) Ckt. 8.2 were approx. 175 MW & 110 MW respectively. Z0X bus coupler was in open condition. III/As reported, power flow was not equal in 220W Park Street-Pragati (DTL) Ckt-1 & Ckt-2 Before 15:05 hrs. At 15:05 hrs, 220KV bus coupler was attempted to close at Park Street(DTL) 5/s to make equal power flow in both circuits and to avoid over loading of 220KV Park Street-Pragati (DTL) Ckt-1 iv/As 220KV bus coupler closed at Park Street(DTL) 5/s, 220W Park Street-Pragati (DTL) Ckt-1 tripped only from Park Street(DTL) 10:1 vi/As 220KV bus coupler closed at Park Street(DTL) 5/s, 220W Park Street-Pragati (DTL) Ckt-1 vi/As 220KV bus coupler closed at Park Street(DTL) 5/s, 220W Park Street-Pragati (DTL) Ckt-1 vi/As 220KV bus coupler closed at Park Street(DTL) 5/s, 220W Park Street-Pragati (DTL) Ckt-1 vi/As 220KV bus coupler closed at Park Street(DTL) 5/s, 220W Park Street-Pragati (DTL) Ckt-1 vi/As 220KV bus coupler closed at Park Street(DTL) 6/s, 220W Park Street(DTL) and 220V Park Street-Pragati (DTL) Ckt 240s tripped from Pragati(DTL) end on over current protection. vi/As 220KV park Street-Pragati (DTL) Ckt 240s tripped from Pragati(DTL) and 220KV Park Street-Pragati (DTL) Ckt 240s tripped 7/set/Park Park Park Park (DTL) Ckt 240s tripped from Pragati(DTL) end park Park (DTL) Ckt 240s tripped 7/set/Park Park Park Park (DTL) Ckt 240s Ckt-2 blackout occurred at 220KV Park Street(DTL) and 220KV Park Street-Pragati (DTL) Ckt 240s tripped 7/set/Park Park Park Park (DTL) Ckt 240s tripped 7/set/Park Park (DTL) Ckt 240s tripped 7/set/Park Park (DTL) Ckt 240s tripped 7/set/Park Park Park Park (DTL) Ckt 240s tripped 7/set/Park Park (DTL) Park 260s Park Park Park (DTL) Ckt 240s tripped 7/set/Park Street-Park Park (DTL) Ckt 240s tripped 7/set/Park 250s	1)220KV Park Street-Pragati (DTL) Ckt-1 2)220KV Park Street-Pragati (DTL) Ckt-2
9	GI-2	Uttar Pradesh	17-09-2024 20:09	17-09-2024 22:15	02:06	0	0	0.000	0.000	48097	65626	1765/400/220kV Unnao(UP) has double main and transfer bus scheme at 400kV level. 10 During antescedent condition, 400kV lines from Unnao(UP) to Agra(UP), lehta_Hardoi Road(UP) & Barelly Ckt-1 and 765/400 kV 1000 MVA ICT-1 & 400/220kV 315 MVA ICT-3 were concented to 400kV bus-2 tunna0(UP) 56, 10 IOA regorted, at 20:09 hrs, Bv phase to earth full with curred on 400 KV Agra-Unnao (UP) Ckt with fault distance of approx. 174m & 86km from Agra(UP) and Unnao(UP) and respectively. Une tripped from Agra(UP) and on receiving 01 from Unnao(UP) end but B-phase pole of line CB could not properly open from Unnao(UP) end 10 Nov 1000 MVA ICT-1 & 400/220 kV 315 MVA (CT-3) tripped at Unnao(UP) end. 10/01.BB operation at Unnao(UP) 54, al elements connected to 400kV bus-2 (400kV lines from Unnao(UP) to Agra(UP), lehta_Hardoi Road(UP) & Barelly Ckt-1 and 765/400 V 1000 MVA ICT-3 & 400/220 V 315 MVA (CT-3) tripped at Unnao(UP) 5/5. 10 V 3000 MVA ICT-1 & 400/220 V 315 MVA (CT-3) tripped at Unnao(UP) 5/5. Vi/As per FVML utinnao(UP). By Alpase to earth full with deleyed fault clearance time of 520msec is observed. Vi/As per SCADA, no change in demand of UP control area.	1)400 KV Agra-Unnao (UP) Ckt 2)400 KV Unnao(UP)-Jehta_Hardoi Road (UP) (PG) Ckt-1 3)400/220 kV 315 MVA KT 3 at Unnao(UP) 4)400 KV Barelliy-Unnao (UP) Ckt-2 5)55/400 kV 300 MVA (CT 1 at Unnao(UP) 6)400 KV Bus 3 at Unnao(UP) 7)406 BUS CouPER BAY - 400/KV BUS 1 AT UNNAO(UP) AND 400 KV BUS 2 AT UNNAO(UP)
10	Gi-1	Delhi	18-09-2024 11:59	18-09-2024 12:05	00:06	0	245	0.000	0.378	61973	64761	(During antecedent condition, incoming power at Mehrauli(DTL) through 220kV Tughlakabad-Mehrauli (DTL) Ckt-1 & 2 were approx. 90 MW each and outgoing power from Mehrauli(DTL) to DIAL through 220kV Mehraul (DTL-DIAL Ckt-1 was approx. 27 MW. 220kV Mehrauli (DTL-DIAL Ckt-2 was not in service. ii)As reported, at 11:59 hn; 220kV Mehrauli (DTL-DIAL Ckt-1 tripped on Y-B phase to phase fault (lexact reason and location of fault keys to be received). ii)As reported, at 11:59 hn; 220kV Mehrauli (DTL-DIAL Ckt-1 tripped on Y-B phase to phase fault (lexact reason and location of fault keys to be received). ii)As reported, at 11:59 hn; 20nv Dahse fault with fault clearing time of 80 mscs i observed. vi/As per 2ADA, change in demand of approx. 25MW keys berved to Pelh control area. vi/During the same time, at pin solar generation of approx. 740 MW is also observed in NR control area (as per SCADA) (inverter tripping details yet to be shared). vi)As reported by SLDC Dehi, at 12:05 hrs, supply at Mehrauli restored through 220 KV Vasant Kun – Mehrauli (DTL) Ckt-1 & 2.	1)220KV Mehrauli (DTL)- DIAL Ckt-1 2)220KV Tughlakabad-Mehrauli (DTL) Ckt-1 3)220KV Tughlakabad-Mehrauli (DTL) Ckt-2
11	Gi-1	Uttarakhand & Himachal Pradesh	19-09-2024 11:53	19-09-2024 12:20	00:27	70	160	0.114	0.257	61190	62208	JOurnig antecedent condition, all the four 30MW units of Khodri HEP & all four 60 MW units of Chhibro HEP were running and total active power generation of Khodri HEP & Chhibro HEP were approx. 90 MW & 200 MW (as per SCADA). Total generation of Chhibro HEP was evacuating through 220 KW Khodri (KLV) was approx. 150 MW with 30 MW Khodri units. 220 KW Khodri (KLV) AndrijfPI (JUG) (CL + & 220W Khodri (KLV) (KL + & 2.200 KW Khodri (KLV) (KL + & 2.200 KW Khodri (KLV) (KL + & 2.100 KW Kho	1)220 KV Khodr(UK)-Majr/Gir(HP) (UK) Ckt-2 2)220 KV Khodr(UK)-Majr/Gir(HP) (UK) Ckt-1 3)220 KV Khodri-Chilliro (UV) Ckt-2 4)30 MW Khodri Unit-1 5)30 MW Khodri Unit-2 6)30 MW Khodri Unit-3

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	(GI-16FGI-2) GD-1 to GD-5)			<u> </u>		Loss(MW)	(MW)	Loss (MW)	Loss (MW)	Generation (MW)	Load (MW)		
12	GI-2	Haryana	20-09-2024 16:05	20-09-2024 17:14	01:09	0	0	0.000	0.000	56131	62857	I) During antecedent condition, 800 kV HVDC Kurukshetra(PG) Pole-1, 2, 3 & 4 were carrying approx. 250 MW each and hence total 1000 MW power was flowing from Champa to Kurukshetra. II)As reported at 16:05 hrs, 800 kV HVDC Kurukshetra (PG) Pole-1 & 2 blocked due to tripping of AC filters at Champa end. (Reason of tripping of filters and bipole-1 only need to be shared. III)As PORVL on talk to bestred in the system. However, flow of Pole-1 and Pole-2 shifted on Pole-3 and Pole-4 hence, there was no reduction in power order. IV)As per PMU, no talk to bestred in the system. However, fluctuation in voltage was observed. VJAs per SUD, no change in demand of Haryana control area.	1)800 kV HVDC Kurukshetra[PG] Pole-01 2)800 kV HVDC Kurukshetra[PG] Pole-02
13	Gi-2	Rajasthan	20-09-2024 12:00	20-09-2024 13:02	01:02	1790	0	4.104	0.000	43616	52184	()400/220k/ Jakslmer(RS) has one and half breaker scheme at 400k/ level and double main and transfer bus scheme at 220k/ level. II/During antecedent condition, Renew Solar, Fortum Solar, NTPC Renewable, ACME Aklera and Clean solar was injecting approx. 107 MW, 240 MW, 160 MW, 260 MW and 220 MW respectively to Jaksimer(RS) at 220k/ Useel. Active power was going out to Aklif(S) through 220k/ Jaksimer(RS)-kalc K1-2.8 Jaksimer(RS) at 220k/ Useel. August 200 MW respectively to Jaksimer(RS) were carrying approx. 228 V MW each. 400/220 kV 500 MV C1 T & 24 stakemer(RS) were carrying approx. 228 V MW each. 400/220 kV 500 MV C1 T & 24 stakemer(RS) were carrying approx. 228 V MW each. 400/220 kV 500 MV C1 T & 24 stakemer(RS) were carrying approx. 228 V MW each. 400/220 kV 500 MV C1 T & 24 stakemer(RS) were carrying approx. 228 V MW each. 400/220 kV 500 MV C1 T & 24 stakemer(RS) were carrying approx. 228 V MW each. 400/220 kV 500 MV C1 T & 24 stakemer(RS) were carrying approx. 228 V MW each. 400/24 kV 500 MV C1 T & 24 stakemer(RS) were carrying and the elements connected at 220k/ level of Jaksalmer tripped and both the 220k/ buses became dead. 40/3k spre PNU af stakegarb3(PG), VN phase to earth fault with delayed fault clearance time of 600 msac is observed. 40/04 km file were, as per 520AD, solar generation loss of approx. 1070 MW is observed in Rajasthan control area. Dip in total solar generation of approx. 1790 MW is observed in NK contol area out of which 808 MW is recovered within 3 minutes. 40/JA per 52ADA, no change in demand is observed in Rajasthan control area.	1)400/220 kV 500 MVA ICT 1 at Lissilmer(RS) 2)400/220 kV 500 MVA ICT 2 at Lissilmer(RS) 3)220X Lissilmer(RS)-Renew 50ar Ckt 4)220X Lissilmer(RS)-Alar Ckt 5)220X Lissilmer(RS)-Alar Ckt-1 6)220X Lissilmer(RS)-ALA Ckt-2 7)220X Lissilmer(RS)-ALK Exter Ckt 8)220X Lissilmer(RS)-Clean Solar Ckt 9)220X Lissilmer(RS)-Clean Solar Ckt 9)220X Lissilmer(RS)-Clean Solar Ckt 9)220X Lissilmer(RS)-RDP Chenewable Ckt
14	GD-1	Rajasthan	21-09-2024 02:58	21-09-2024 04:37	01:39	0	0	0.000	0.000	46731	62228	1/20kV Mahindra Solar (IP) S/s has double main bus arrangement at 220kV level. 11/During antecedent condition, no solar generation at 220kV Mahindra Solar(IP). 220/33kV 100MVA ICT-3 and 33kV/415V 300kVA auxiliary transformer were connected on the same 33kV usat Mahindra Solar(IP). 11/JAs reported at 02:58 hm, s/k a double phase to earth fault occurred on 33kV/415V 300kVA auxiliary transformer which led to tripping of 220/33kV 100MVA ICT-3 on earth fault protection at Mahindra Solar(IP) S/s. 14/JA the same time, 220/33kV 100MVA ICT-3 LCT-2 and 220 KV Bhadla(PG)-Mahindra SL_BHD_PG (MAHINDRA) (MAHINDRA) Ct tripped on master trip relay operation 14/JA the same time, 220/33kV 100MVA ICT-3 Lo be received). 14/JA the same time, 220/33kV 200MVA ICT-3 to be received). 14/JA the protection of matter trip relay is yet to be received). 14/JA the generation of sast 220kV Mahindra Sulf P/S and no change in demand of Algusthan control area (as per SCADA).	1220/31 VY 100 MVA ICT 3 at Mahindra SL_BHD_PG (MARHUDA) 2220 VK BhadialPG)-Mahindra SL_BHD_PG (MARHUDA) (MAHHUDA) Ctt 3220/33 VY 100 MVA ICT 1 at Mahindra SL_BHD_PG (MARHUDA) (2220/33 VY 100 MVA ICT 2 at Mahindra SL_BHD_PG (MARHUDA)
15	Gi-1	Haryana	23-09-2024 09:44	23-09-2024 12:54	03:10	0	75	0.000	0.102	62338	73243	(1)220/132/131V Hissar(BB) 5/s has double main bus scheme at 220KV level. III)As reported, at 09-4Mns, Y-phase clamp of 220KV Hissar-Sangrur (BB) Ckt-2 burnt and jumper snapped. III)During the same time, all the lines connected at 220KV buils at 14 Hissar(BB) also tripped (East creason yet to be shared). IVIAs per DR and details received, 220 KV Hissar-Sangrur (BB) Ckt-1 & 2 tripped from Sangrur end only sensing the fault in zone-2. Fault current was 966.2A and 1.036KA respectively and fault distance was 100, zim and 167.1Km respectively from Sangrur end. IVIAS per DR and details received, 220 KV Hissar-Sangrur (BB) Ckt-1 & 2 tripped from Sangrur end only sensing the fault in zone-4. Fault current was 4.984KA and fault distance was 468.2m from Hissar(BB) end. IVI220 KV Hissar(BB)-Hissar (IAIV) (HVPNL) Ckt-1 tripped from both the ends sensing the fault in zone-4. Fault current was 4.984KA and fault distance was 10.036KA respectively and fault distance was 10.036KA and 2022 hard from Hissar(BB) and Hissar (HVP) end respectively. IVI220 KV Hissar(BB)-Hissar (IAIV) (HVPNL) Ckt-1 tripped from both the ends sensing the fault in zone-4. Fault current was 4.984KA and fault distance was 10.036KA respectively and fault distance was 10.032/m from Hissar(BB) and Hissar (HVP) end respectively. IVID to tripping of all the elements connected to bur-1.2204W bur-1.2 Hissar(BB) and Hissar (HVP) end respectively. IVIA Hissar(FB), Fissar Hissar(FB), Fissar Hissar FB, Panger E earth fault (phase sequence issue observed) with delayed fault clearing time of 360ms is observed. IVIAS per SOLAN, Amager in demand of approx. 75MW is observed in tripping control area.	1) 220 KV Hissar(88)-Hissar IA(HV) (HVPNL) Ckt-1 2) 220 KV Hissar(88)-Hissar IA(HV) (HVPNL) Ckt-2 3) 220 KV Hissar-Sangur (188)-Ckt-2 4) 220 KV Hissar-Sangur (188) Ckt-2 5) 220 KV Bus-1 at Hissar(88)
16	GD-1	Uttar Pradesh	23-09-2024 19:52	23-09-2024 22:09	02:17	0	700	0.000	0.963	55163	72675	(During intercedent condition, 400 W Umao-Agra(UP) CM was charged through transfer bias coupler at Umao multi-wise coupler at Umao multi-wise coupler to 400 W Bins - III/A reported, at 15-23 hrs, due to blast in B-phase circuit breaker of transfer bias coupler, bias full occurred at Umao. But bias bia protection didn't operate (exact reason yet to be shared and bus biar rely is of transfer bias). (B) Couple and COV Umao-Patalic (UP) CE, the tripped on relay is most of the lines sensed fluid in cours-4 at Umao and and RIO W Umao/Patalic (UP) (PE) (16-1 + remote end sensed fluid in cours-4 (100 V Umao-Patalic (UP) CE, the tripped on relay is most of the lines sensed fluid in cours-4 at Umao and and RIO W Umao/Patalic (UP) (PE) (16-1 + remote end sensed fluid in cours-4 (100 V Umao-Patalic (UP) CE, the tripped on relay is most of the lines sensed fluid in cours-4 at Umao and and RIO W Umao/Patalic (UP) (PE) (16-1 + remote end sensed fluid in cours-4). (B) PE (16-1 + remote end sensed fluid in cours-4) and (100 V Umao/Patalic (UP) CE) (16-1 + remote end sensed fluid in cours-4). (B) PE (16-1 + remote end sensed fluid in cours-4) and (100 V Umao/Patalic (UP) CE) (16-1 + remote end sensed fluid in cours-4). (B) PE (16-1 + remote end sensed fluid in course (16-1 + RIO +	11 400 KV Bartelly-Ulenso (UP) Ck-1 21 400 KV Bartelly-Ulenso (UP) Ck-1 21 400 KV Bartelly-Ulenso (UP) Ck-1 21 400 KV Bartelly-Ulenso (UP) Ck-1 41 400 KV UnsolUP) Hatta_streads flack (UP) (PG) Ck-1 41 76 KV KM KV CK-1 24 LUnsolPF) 41 76 KV KM KV CK-1 24 LUnsolPF(UP) 41 76 KV KM VK VK CK-1 24 LUnsolPF(UP) 41 76 KV KM VK VK KK-1 24 LUnsolPF(UP) 41 76 KV KM KK-1 24 KK-1 24 KK-1 24 KK-1 24 KK-1 24 KK-1 24 K
17	GD-1	Delhi	24-09-2024 12:52	24-09-2024 13:01	00:09	0	338	0.000	0.420	65963	80387	1220W Mards(DT) 55 hts double main bus arrangement at 220W level.(During antecedent condition, incoming power at Narels(DT) through 220 W Mands(PG) Narels(DY) (DT) D/C was species. 300W. 220 W Mands(PG) Narels(DY) (DT) D/C was feeding load of 220W Narels(DT) 420 W Monds(PG) Narels(DY) (DT) D/C, 220W Narels-OSIC (DTI) D/C, 220W Nare	1) 220 KV Mandola(PG]-Narela(DV) (DTL) Ckt-1 2) 220 KV Mandola(PG]-Narela(DV) (DTL) Ckt-2
18	GD-1	Haryana	29-09-2024 19:41	29-09-2024 20:40	00:59	0	190	0.000	0.285	30716	66734	I)220/132XV Fatehabad(HR) 5/s has double main bus scheme at 220KV level. II)AS reported, at 19:41ms, B phase CT of 220KV law Coupler at Fatehabad(HR) blasted which led to bus bar protection operation at both the buses of 220KV level at Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR), supply lost to 132KV level also and complete blackout occurred at 220/132KV Fatehabad(HR) and of approx. 190MW is observed in Haryana control area.	1) 220 LV Fatehubad(PG)-Fatehubad(PR) (PV/PNL) Ctr-1 2) 220 LV Fatehubad(PG)-Fatehubad(PR) (PV/PNL) Ctr-1 3) 220 LV Fatehubad(PR) (PV/PNL) Ctr-1 3) 220 LV Misar PG)-Fatehubad(PR) (PV/PNL) Ctr-1 6) 220 LV Misar Fatehubad(PR) 20 220 LV Misar Fatehubad(PR) 8) 220 L/220 L/220 L/22 L Fatehubad(PR) 8) 220 L/220 L/22 L/22 L Fatehubad(PR) 9) 220 L/220 L/22 L/22 L Fatehubad(PR) 9) 220 L/220 L/22 L/22 L Fatehubad(PR) 10) 220 L/220 L/22 L/22 L Fatehubad(PR) 10) 220 L/220 L/22 L/22 L Fatehubad(PR)

						Ī	<u>)etails (</u>	of Grid H	Events	during th	e Mont	h of Sept 2024 in Western Region	👔 ग्रिड-इंडिया GRID-INDIA
SI	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid	Time and Date of Restoration	Duration	Loss of gene load during	eration / loss of the Grid Event	% Loss of gener load w.r.t Ar Generation/L Regional Grid du Ever	ation / loss of atecedent oad in the uring the Grid at	Antecedent Generat Regional (tion/Load in the Grid*	Refer details of the event (new fault and nost fault system conditions)	Flements Trinned
No.	(GI 1or GI 2/ GD-1 to GD-5)		Event		(HH:MM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	WR	02-09-2024 00:42	02-09-2024 06:12	05:30	20		0.03%	-	60833	49353	At 00:42 Hrs / 02-09-2024, 220 kV Bhuj-Gadhsisa tripped on B-E fault. It is observed from DRs that Autorecloser didn't attempt at Gadhsisa end for single phase fault and three phase tripped observed at Bhuj End. During patrolling spare conductor of other utility was yling on 220 kV Bhuj-Gadhsisa. Generation loss of 20 MW occured at Gashsisa (Renew Power) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhsisa
2	GD-1	WR	03-09-2024 02:37	03-09-2024 06:30	03:53	73		0.12%	-	59110	49851	At 02.37 Hrs / 03-09-2024, 220kV Sayali-Vapi Ii-1 & 2 tripped on R-E fault (ckt-1 tripped from Vapi II end only) and 220kV Sayali Switching Substation became dead. As informed by sterilte fault was in Z-1 220 kV Sayali-Vapi Ii-1 (L1 k from Vapi II end). As seen from DRs, 3 phase trip issued for a single phase fault at vapi end of 220 kV Sayali-Vapi II-1 circuit and line tripped from Vapi end only. Also, 220 kV Sayali-Vapi II-2 tripped on Z-3 distance protection operation at Vapi end without any time delay. The trippings were not in order. Load loss of 73 MW occurred at of 220kV Alok Industries Ltd (which is being fed rediality through 220 kV Savii due to the event.	Tripping of following Elements: 1. 220 kV Vapi II Sayali-1 2. 220 kV Vapi II Sayali-2 2. 220 kV Vapi II Sayali-2 3. 220 kV Sayali-240 kI Mustries Ltd 4. Sayali - 220 kV - Bus-1 5. Sayali - 220 kV - Bus-2
3	GI-2	WR	03-09-2024 06:50	03-09-2024 09:42	02:52	1267	-	2.07%	-	61153	55048	At 05:50 hrs / 03:09:2024, 400 kV Kakrapar(38:4)-Navsari-ckt-1 tripped on R-E fault at 400 kV Kakrapar(38:4)-kus2 tripped Simultaneously, at 400 kV Kakrapar(38:4), 400 kV Kakrapar(38:4)-Navsari-ckt-1 and 400 kV Kakrapar(38:4)- bus2 tripped on LBB protection operation. As seen from PMU plot, fault did not persist for 200 msec, hence LBB protection operation was not in-order. As informed by NPCIL Kakrapar(38:4), the operation of LBB relay was not as per intent. The LBB current element is set at 20 % of C primary = 20 % of 2000 A = 400 A with a time delay of 200 millisecond. During R-E fault on 400 kV Kakrapar(38:4)-Navsari-ckt-1 at 06:50 Hrs, R phase fault got cleared in 95 milliseconds. However, due to relay's internal CB fall element logic issue, by seeing the other 2 phases (Y&B phases) current more than the set value, the relay has initiated LBB trip after 200 milliseconds of LBB initiation.	Tripping of following Elements: 1.400 kV Kakrapar(3&4)-Navsar(PG)-1&2 2. Kakrapar(3&4)-Uni-3&4.(700 MW) 3.400/21 kV Kakrapar 3&4-GT3 4.400 kV Kakrapar 3&4 Bus-2
4	GD-1	WR	03-09-2024 22:40	04-09-2024 15:36	16:56	6	-	0.01%	-	64255	54712	At 22:40 Hrs / 03-09-2024, As informed by Alfanar 220 kV Bhuj-Nanavalka tripped on B-E fault, but is seen from DRs R-B phase to phase fault occurred. During patrolling it was found that the suspension insulator on Tower No. 33/0 B phase and Tower-No.35/0 Y phase Tension insulator had failed. Multiple test charging were taken but line tripped on SOTF it is inferred that thorough patrolling had not been carried out before attempting test charging. Generation loss of 6 MW occured at Nanavalka (Alfanar) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220KV Bhuj-Nanavalka
5	GI-2	WR	04-09-2024 11:42	05-09-2024 15:59	28:17	31	-	0.05%	-	61961	54955	At 11:42 Hrs / 04-09-2024, 220 kV Bhuji II-Morjar (Srijan) tripped on R-E fault. During patrolling it was found that a tension insulator failed at tower number AP-05A. Generation loss of 31 MW occured at Morjar (Srijan) Wind Power plant due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj Il-Morjar (Srijan)
6	GD-1	WR	06-09-2024 13:10	06-09-2024 16:49	03:39	268	-	0.44%	-	60449	53360	At 13:09 hrs / 06-09-2024, 220 kV Bhawsinghpura-Bus-1 and all connected elements tripped on Bus bar protection operation due to actuation of Overcurrent relay (SO/S1). 220 kV Bhawsingpura-Kanwani-1, 220 kV Bhawsingpura- Khandwa-1 ac20/33 kV Bhawsingpura-ICT-1 tripped leading to generation loss of 118 MW. Prior to the incident, 220/33 kV Bhawsingpura-ICT-1 tripped on over current protection operation at 12:50 hrs. Generation loss of 269 MW Bhawsingpura-ICT-1 tripped on over current protection operation at 12:50 hrs.	Tripping of following Elements: 1. 220 kV Bhawsingpura-Kanwani-1 2. 220 kV Bhawsingpura-Rhandwa-1 3. 220 kV Bhawsingpura-Bus-1 4. 220/33 kV Bhawsingpura-ICT-1
7	GD-1	WR	10-09-2024 00:31	10-09-2024 00:31	00:00	59		0.09%	-	65831	54447	At 00:31 Hrs / 10-09-2024, 220 kV Bhuj-Gadhsisa tripped on Y-B fault at Bhuj end. During patrolling it was found that Tower Number 46/0 was damaged from Cage section. Generation loss of 59 MW occured at Gashsisa (Renew Power)	Tripping of following Elements: 1. 220 kV Bhuj-Gadhsisa
8	GD-1	WR	11-09-2024 17:29	11-09-2024 18:58	01:29	80	-	0.12%	-	66030	55745	Wind over plant due to loss of evacuation plant. At 17:29 hrs /11-09-2024, 400 VV apil-Bus-1&& tripped on bus bar protection operation due to maloperation of Main Control Unit-2 relay and all elements connected tripped from 400 kkV Vapi II side only. As informed by Sterilte, no abnormalities were found during inspection and the tripping may be due to moisture ingress due to heavy rainfal. 220 kV Sayali station connected to Vapi II became dark due to tripping of 220 kV Vapi II-Sayali-1&2. Load loss of 80 MW occurred at of 220kV Alok Industries Ltd (which is being fed radially through 220 kV Sayli) due to the event.	Tripping of following Elements: 1. 400 kV Vapi II-Bus-1&2 2. 400kV Vapi II-Vapi (PG)-1&2 3. 400 kV Kakragar (3&4)-Vapi II-1&2 4. 400/220 kV Vapi II-Bc1-1&2 (500 MVA) 5. 400 kV Vapi II-Bus Reactor 6. 220 kV Vapi II-Sayali-1&2 2. 220 kV Vapi II-Sayali-1&2
9	GD-1	WR	15-09-2024 17:03	15-09-2024 18:39	01:36	65	-	0.10%	-	63084	56252	At 17:03 hrs / 15:09-2024, 220 kV Aurangabad-Shendra tripped at 17:03 hrs due to LA blast of 220 kV Aurangabad- Shendra-1 at Shendra end. Details not received from both ends. As informed by SLDC Maharashtra, 220 kV Aurangabad- Shendra-1&2 tripped. Tripping of 220/132 kV Shendra-ICT-1 (100 MVA) and 220/33 kV Shendra-ICT-1&2 (50 MVA) and 220 kV Aurangabad-Shendra-2 may be due to bus bar protection operation. Load loss of 65 MW occurred due to the event.	Tripping of following Elements: 1. 220 KV Aurangabad-Shendra-1&2 2. 220/132 KV Shendra-ICT-1 (100 MVA) 3. 220/33 KV Shendra-ICT-1&2 (50 MVA)
10	GI-2	WR	17-09-2024 15:31	17-09-2024 18:14	02:43	-	-	-	-	65953	55356	At 15:31 hrs / 17-09-2024, Bus bar protection operated in 400 kV DGEN-Bus-2 due to failure of LA of 400/220 kV DGEN- ICT-1, resulting in tripping of all connected elements to 400 kV DGEN-Bus-2. No generation loss occurred due to the event.	Tripping of following Elements: 1.400/220 kV DGEN-ICT-1 2.400 kV DGEN-Bus-2 3.400 kV DGEN-Bus Reactor 4.400/22 kV DGEN-6T-1 5.400 kV Avari-DGEN-1
11	GD-1	WR	19-09-2024 15:03	19-09-2024 15:52	00:49	30	-	0.04%	-	71847	64660	At 15:03 hrs / 19-09-2024, 220 kV Dayapar sub-station AC supply cable and DC supply cable of 220/33 kV Dayapar-ICT-1 got punctured resulting in tripping of 220 kV Bhuj-Dayapar-1&2 and 220/33 kV Dayapar-ICT-1,2,3&4. Generation loss of 30 MW occurred at Dayapar () Wind Power Plant due to the event.	Tripping of following Elements: 1. 220 kV Bhuj-Dayapar-1&2 2. 220/33 kV Dayapar-ICT-1,2,3&4
12	GD-1	WR	24-09-2024 01:09	30-09-2024 23:59	166:50	72	-	0.10%	-	70692	57265	At 01:03 Hrs / 24-09-2024, 220KV Bhuj- Gadhaisa line tripped on Y-ph to earth fault. During patrolling it was found tower damaged on top section due to conductor theft of spare line on Same tower no T15/0. Generation loss of 59 MW occured at Gashsia (Renew Power) Wind Power plant due to loss of evacuation path. Remarks- This line is still out	Tripping of following Elements: 1. 220kV Bhuj-Gadhsisa
13	GD-1	WR	30-09-2024 16:36	01-10-2024 08:41	16:05	-	272		0.46%	70673	58831	At 16:36 hrs / 30-09-2024, 220 kV Kalwa-Gigapiex tripped on Y-E fault due to snapping of conductor. At the same time raise in frequency from 49.996 Hz to 50.044 Hz, Voltage dip in Pune_PG and Padghe PMU and dip in Mumbai demand observed. Load loss of around 270 MW was observed (from SCADA). However, Maharashtra has reported that no load loss occurred due to the tripping	Tripping of following Elements: 1. 220 kV Kalwa-Gigaplex ckt

							Detai	ls of Gri	id Eve	nts during	g the Mo	onth of Sept 2024 in Southern Region	🚺 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gen load during	eration / loss of the Grid Event	% Loss of gener- load w.r.t An Generation/L Regional Grid du Even	ation / loss of ntecedent oad in the nring the Grid nt	Antecedent Genera Regional	ation/Load in the Grid*	Brief details of the event (pre-fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD - 1	KARNATAKA	01-09-2024 03:15	01-09-2024 04:21	01:06	0	164	0.00%	0.48%	42145.12	33985.58	Tripping of 220kV Bus of 400kV/220kV Kalaburgi SS, 220kV Bus-2 of 220kV/110kV Sedam, 220kV Bus-1 of 220kV/110kV Shahpur SS and complete outage of 220kV/110kV Gangapur SS, 220kV/110kV Humnabad SS, 220kV/110kV Kapanoor SS & 220kV/110kV Halabarga stations and 220kV Avada IPP: During antecedent conditions, due to bus split conditions at 220kV level of 220kV/110kV Sedam SS and 220kV/110kV Shahapur SS, 220kV Bus-2 of 220kV/110kV Sedam, 220kV Bus-1 220kV 200kV/110kV Sedam SS and 220kV/110kV Shahapur SS, 220kV Bus-2 of 220kV/110kV Sedam, 220kV Bus-1 200kV/110kV Shahpur SS, 220kV/110kV Humnabad SS, 220kV/110kV Kapanoor SS & 220kV/110kV Halabarga stations and 220kV Avada IPP are being radially fed from 220kV Bus-1 and Bus-2 of Kalaburgi SS. The triggering incident was tripping of 400kV/220kV kalburgi ICT-1 and 2 on operation of over-flux relays on the IV side, leading to 220kV Bus 1 and Bus-2 outage at 400kV/220kV kalburgi SS which inturn led to outage of all radial connected buses and stations.	400KV/220KV KALABURAGI-ICT-1, 400KV/220KV KALABURAGI-ICT-2
2	GD - 1	ANDHRA PRADESH , TAMILNADU	05-09-2024 10:14	05-09-2024 10:27	00:13	0	177	0.00%	0.36%	52802.16	48589.41	Complete Outage of 230kV/110kV Gummudipundi SS: During antecedent conditions, Gummidipoondi Substation was radially connected through 230kV Gummidipoondi_Sulurpet Line. 230V Gummidipoondi Suryadev and 230kV Gummidipoondi NCTPs were out of service for power regulation. As per the reports submitted, the triggering includent was Y-N fault in 230kV Gummidipoondi_Sulurpet Line. Tripping of only connected line led to complete outage of 230kV/110kV Gummidipoondi SS. Since 230kV Surya Dev, 230kV ARS, 230kV Mychelin, 230kV Cauver, 230kV Thervoi Kandigoi, 230kV Kamachi are radially connected to 230kV/110kV Gummidipoondi SS, complete outage of 230kV/110kV Gummidipoondi SS led to complete outage of the radial connected stations also.	220KV-SULURPET-GUMMIDIPOONDI-1, GUMMIDIPOONDI - 230KV - Bus 1, GUMMIDIPOONDI - 230KV - Bus 2
3	GD - 1	TAMILNADU	09-09-2024 10:08	09-09-2024 10:24	00:16	41	73	0.08%	0.15%	51895.43	48620.26	Complete Outage 230kV/110kV Karaikudi SS: 230kV Karaikudi SS has double bus with bus coupler but all elements are connected to Single bus. As per the reports submitted, the triggening incident was R-phase jumper cut in 230kV Karaikudi karaikudi_PG Line-2 between breaker and isolator causing a bus fault. Immediately, 230kV BBP operated and all elements connected to the bus tripped. Tripping of all elements connected to 230kV Bus resulted in tripping of 230kV bus of 230kV/110kV Karaikudi SS. Subsequentity, other two 110kV source feeders tripped on fault and over current protection. This led to complete outage of 230kV/110kV Karaikudi SS.	230KV-KARAIKUDI-KARAIKUDI(TN)-1, 230KV- KARAIKUDI-KARAIKUDI(TN)-2, KARAIKUDI(TN) - 230KV
4	GD - 1	TAMILNADU	12-09-2024 21:54	12-09-2024 22:00	00:06	0	1463	0.00%	2.98%	48613.17	49013.48	Complete Outage of 400kV/230kV/110kV MANALI, 400kV/230kV PULVANTHOPE, 230kV VSARPAD, 230kV/110kV TONDIARPET, 230kV/110kV BASIN_BRIDGE, 230kV/33kV MYLAPORE_GIS, 230kV/110kV CMRL_CENTRAL, 230kV/33kV TRE_HQ, 230kV/110kV RAPURAM and 230kV/110kV MYLAPORE: During antecedent conditions, 230kV VYSARPAD was radially fed from 400kV/230kV PULVANTHOPE and due to outage of 230kV Tharamani Rapuram line, 230kV Tharamani Riz line, 230kV Rapuram Mambalam line and 230kV Mysaper GIS line on load regulation, 230kV/110kV TONDIARPET, 230kV/110kV BASIN_BRIDGE, and 230kV/33kV MYLAPORE_GIS, 230kV/110kV CMRL_CENTRAL, 230kV/33tV TINEE, HQ, 230kV/110kV BASIN_BRIDGE, and 230kV/33kV MYLAPORE_GIS, 230kV/110kV grid connected lines, there was loss of supply to 400kV/230kV/110kV MALPADRE/GIS, 230kV/110kV CVSARPAD, 230kV/31kV TONDIARPET, 230kV/110kV RAPURAMS, BRIDGE, 200kV/31kV WYSARPAD, 230kV/31kV TONDIARPET, 230kV/110kV RAPURAMS, BRIDGE, 230kV/31kV WYLAPORE_GIS, 230kV/110kV CMRL_CENTRAL, 230kV/33kV TNEB_HQ, 230kV/110kV RAPURAM and 230kV/110kV MALPADRE_GIS, 230kV/110kV CMRL_CENTRAL, 230kV/33kV TNEB_HQ, 230kV/110kV RAPURAM and 230kV/110kV MYLAPORE_GIS, 230kV/110kV CMRL_CENTRAL, 230kV/33kV TNEB_HQ, 230kV/110kV RAPURAM and 230kV/110kV MYLAPORE.	400KV NCTSPS STAGE-II MANALI LINE-1 ALAMATHY MANALI LINE-1&2 NCTPS TONDIARPET LINE-1&2 NCTPS KILPAUK_UNE-1 KARATTUR KILPAUK_USI LINE-1 ALAMATHY MOSUR LINE-1 ALAMATHY MOSUR LINE-1 ALAMATHY MOSUR LINE-1
5	GD - 1	TAMILNADU	12-09-2024 23:36	13-09-2024 01:38	02:02	0	329	0.00%	0.71%	47134.84	46312.54	Complete Outage of 400kV/220kV Tharamani SS of TANTRANSCO: As per the reports submitted, during antecedent conditions, 230kV Mylapore Tharamani line and 230kV RAPuram Tharamani lines were under outage for load regulation. The triggering incident was YN fault in 230kV Sriperumbudur Tharamani line due to Y phase dropper cut at Tharamani end. and the line triped. At the same time, 230kV Kalventhapattu Tharamani line tripped on operation of DEF protection only at Tharamani end. Tripping of these two lines resulted in the complete outage of 400kV/230kV/110kV Tharamani GIS and 230kV/110kV Tharamani SS.	230KV-SRIPERUMBADUR_TN-THARAMANI-1, 230KV- KALVENDAPATTU-THARAMANI
6	GD - 1	KARNATAKA	18-09-2024 06:10	18-09-2024 10:16	04:06	0	21	0.00%	0.04%	44693.0	50788.0	Complete Outage of 220kV Kalyani SS and 220kV Bus-2 outage at 400kV/220kV Munirabad SS: 220kV Kalyani Steel was being radially fed from 220kV Munirbad Bus-2. As per the reports submitted, the triggering incident R-N fault in 220kV Bus-2. Immediately, 220kV BBP operated and all elements connected to 220kV Bus-2 tripped. This led to outage of 220kV Bus-2 of Munirabad and complete outage of 220kV Kalyani Steel.	220KV-LINGAPUR-MUNIRABAD_KAR-2, 400KV/220KV MUNIRABAD-ICT-2, 220KV-MUNIRABAD-KALYANI-1, MUNIRABAD_KAR - 220KV - Bus 2
7	GD - 1	PONDICHERR Y	20-09-2024 13:49	20-09-2024 14:25	00:36	0	128	0.00%	0.21%	56641.7	62248.0	Complete Outage of 230kV/110kV Villianur SS of Puducherry: In the antecedent conditions, 230kV Neyvelli-Villinur was under idle charged condition due to power regulation and hence 230/110kV Villinur was radially connected via 230kV Puducherry. Villinur line. As per the reports submitted, the triggering is the B+N fault in 230kV Puducherry. In the connected to 230/110kV Villinur led to the complete outage of 230kV/110kV Villianur SS of Puducherry.	230KV-PUDUCHERRY-VILLIANUR-1
8	GD - 1	KARNATAKA	21-09-2024 19:25	21-09-2024 23:05	03:40	0	296	0.00%	0.61%	51698.17	48571.65	Complete Outage of 220kV/66kV Kolar SS, 220kV/66kV Sarjapura SS, 220kV/66kV Bangarpet SS of KPTCL: 220kV/66kV Malur SS was operating with split bus condition at 220kV level with 220kV Kolar Kolar_PG line-1&2 radially feeding 220kV/86kV Bangarpet SS was being radially fed from 220kW/Malur Bus-2. 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the reports submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the report submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the report submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the report submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the report submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the report submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the report submitted, the triggering incident was tripping of 220kV/66kV Kolar SS. As per the report submitted, the tripping of 220kV/66kV Kolar SS. As per the report submitted, the tripping of 220kV/66kV Kolar SS. As per the report submitted, the tripping of 220kV/66kV	220KV-KOLAR_KAR-KOLAR_AC-1, 220KV-KOLAR_KAR- KOLAR_AC-2, KOLAR_KAR - 220KV - Bus 1

							Deta	ils of Gri	d Eve	nts during	g the Mo	onth of Sept 2024 in Southern Region	🚺 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gene load during	eration / loss of the Grid Event	% Loss of genera load w.r.t Ant Generation/Lo Regional Grid du Event	ation / loss of tecedent and in the ring the Grid t	Antecedent Genera Regional	tion/Load in the Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
9	GD - 1	KARNATAKA	29-09-2024 17:51	29-09-2024 17:58	00:07	0	298	0.00%	0.67%	43568	44624	Complete Outage of 220kV Exora SS, 220kV ITI and 220kV Vikas Tech Park SS and Tripping of 220kV Bus-1 of 400kV/220kV Hoody SS of KPTCL: 400kV/220kV Hoody SS was operating with bus split condition at 220kV level with 220kV Hoody Malur line being the only source. 220kV Exora SS, 220kV ITI and 220kV Vikas Tech Park SS were being radially fed from 220kV Hoody Bus- 1. As per the reports submitted, the triggering incident was tripping of 220kV Hoody Malur Line-1 on. Tripping of the only connected line resulted in outage of 220kV Bus-1 of 400kV/220kV Hoody SS which inturn resulted in complete outage of 220kV Exora SS, 220kV ITI and 220kV Vikas Tech Park SS.	220KV-HOODY-MALUR-1
10	GI-1	TELANGANA , ANDHRA PRADESH , TELANGANA	01-09-2024 06:22	01-09-2024 07:50	01:28	640	0	1.57%	0.00%	40698.3	35277.08	Tripping of 220kV Bus-1 and Bus-2 of 220kV/132kV Nsagar PH Generating station of TSGENCO: As per the reports submitted, the triggering incident was Y-N fault in 220kV Nagarjunsagar-Chalakurthy feeder at a distance of 2.4 KM from Nsagar end. At Nsagar end, the fault was sensed in zone-1. The earth fault current recorded was 22.5 KA, and the fault was cleared within 87ms. At the same time, other 220kV Nasagar PH lines except 220kV Nsagar Tallapally Line-2 tripped due to LBB maloperation. After 57mins, 220kV Nasagar Tallapally Line-2 was hand tripped at Tallapally end due to overfoading. Subsequently, PTS of 220kV Nasagar PH tipped on overfoading and Units tripped on over frequency due to loss of evacuation. This led to outage of 220kV Bus-1 and Bus-2 of 220kV/132kV Nsagar PH Generating station. 132kV was in service during the event.	220KV-NAGARIUNASAGAR_AP-NAGARIUNASAGAR_TS 3, 220KV-NAGARIUNASAGAR_AP- NAGARIUNASAGAR_TS-2, 220KV- NAGARIUNASAGAR_TS-CHALAKURTHY-1, 220KV- SRISAILAM_RIGHT_BANK-NAGARIUNASAGAR_TS-1
11	GI-1	KERALA	04-09-2024 20:17	05-09-2024 01:08	04:51	0	123	0.00%	0.27%	49085.97	46105.16	Tripping of 220kV Bus-2 and 220kV Bus Section-1A of 400kV/220kV Madakathara SS of KSEB: As per the reports submitted, Y- phase insulator on the 220 kV side in Bus Section 28 of the 220/110 Madakathara Transformer-2 experienced a flashover resulting in a bus fault. Immediately, Bus -2 operated tripping al lelements connected to 220kV Bus section 2-A and 2-B as both bus sections are connected through an isolator. At the same time, elements connected to 220kV Bus section 1-A also tripped.	dokv/220kV MADAKKATHARA-ICT-3, 220kV- MADAKKATHARA-SHORNUR-1, 220kV-MADAKATHARA- CHALAKUDY-1, MADAKATHARA - 220kV - Bus 2, 220kV PALAKKAD-MADAKATHARA - 1, 220kV-LOWER PERIYAR MADAKATHARA-1
12	GI-1	TELANGANA , ANDHRA PRADESH	11-09-2024 20:17	11-09-2024 21:21	01:04	172	0	0.35%	0.00%	49287.14	47482.61	Tripping of 220kV Bus-2 of Lower Sileru PH of APGENCO: As per the reports submitted, at 20:16 hours, an internal Y-Phase fault occurred in Unit-2, leading to operation of GT Buchholtz and GT Differential Protections. These protections triggered the master trip relays, causing the unit to trip and the generator breaker to open. However, the IBB Group-B protection relay operated at Lower Sileru because the CT input for the Unit-2 LBB overcurrent relays was being taken from the generator side CTs. Immediately, all elements connected to 220kV Bus-2 got tripped.	220KV-ASUPAKA-LOWER_SILERU-1, 220KV- LOWER_SILERU-Chintur-1, LOWER_SILERU - 220KV - Bus 2
13	GI-1	ANDHRA PRADESH	13-09-2024 10:05	13-09-2024 10:23	00:18	0	0	0.00%	0.00%	55205.93	57984.6	Tripping of 220kV Bus-2 of 220kV Lower Sileru PH of APGENCO: As per the reports submitted, while deparalleling Unit-3, Y- pole failed to open. LBB failed to open and other lines connected to 220kV Bus-2 were handtripped.	220KV-ASUPAKA-LOWER_SILERU-1, 220KV- LOWER_SILERU-Chintur-1
14	GI-1	TAMILNADU	19-09-2024 11:14	19-09-2024 11:34	00:20	308	322	0.55%	0.52%	56151.16	62183.13	Tripping of 230kV Bus-2 of 400kV/230kV Alamathy SS and Complete Outage of 230kV OPC generating statition of TANTRANSCO: As per the reports submitted, a B-phase fault occurred on the LV side, leading to the operation of differential protection. As the fault was not cleared within 200 milliseconds, the LBB protection operated on the 230kV Bus 2. The fault was cleared in approximately 328 milliseconds, hence reverse zone protection operated on the 230kV Alamathy-Manail L feeder and the 230kV Alamathy-Kovembedu feeder, both connected to 230kV Bus 1 at the Alamathy end. 230kV Alamathy OPG Line-2 which is connected to 230kV Alamathy Bus-2 tripped on LBB operation. Subsequently, 230kV Alamathy OPG Line-1 tripped on over loading. Tripping of both lines led to complete outage of 230V OPG generating station.	230KV-ALAMATHY-TIRUVERKADU-1, 230KV- ALAMATHY-MANALI-1, 230KV-ALAMATHY- KOYAMBEDU-1, 230KV-ALAMATHY-MANALI-2, 230KV- ALAMATHY-OFG.2, 400KV/230KV ALAMATHY-ICT-5, 230KV-ALAMATHY-MOSUR-2, ALAMATHY - 230KV - Bus 2
15	GI-1	ANDHRA PRADESH , TELANGANA	20-09-2024 17:00	20-09-2024 19:30	02:30	392	0	0.76%	0.00%	51454.83	57035.05	Tripping of 220kV Bus-2 of 220kV Nsagar PH of TGGENCO: As per the reports submitted, the triggering incident was B-N fault in 220kV Nagarjunasagar-Srisailam RB feeder. At the same time, other 220kV Nasagar PH lines connected to 220kV Bus-2 tripped due to LBB maloperation. This led to outage of 220kV Bus-2 of 220kV/132kV Nsagar PH Generating station.	220KV-NAGARJUNASAGAR_AP-NAGARJUNASAGAR_TS 2, 220KV-NAGARJUNASAGAR_TS NAGARJUNASAGAR_TS-3, 220KV- SIISAILAM_RIGHT_BANK-NAGARJUNASAGAR_TS-1, 220KV-NAGARJUNASAGAR_TS-CHALAKURTHY-1
16	GI-1	ANDHRA PRADESH , TELANGANA	20-09-2024 20:30	20-09-2024 21:54	01:24	192	0	0.39%	0.00%	49231.29	49574.77	Tripping of 220kV Bus-2 of 220kV NSagar PH of TGGENCO: As per the reports submitted, the triggering incident was P-M fault in 220kV Nagarjunasagar-Srisailam RB feeder. At the same time, other 220kV Nasagar PH Innes connected to 220kV Bus-2 tripped due to LBB maloperation. This led to outage of 220kV Bus-2 of 220kV/132kV Nsagar PH Generating station.	220XV-NAGARIUNASAGAR AP-NAGARIUNASAGAR TS- 2, 220XV-NAGARIUNASAGAR TS-3, 220XV- NAGARIUNASAGAR TS-3, 220XV- SISAILAM, RIGHT, BANK-NAGARIUNASAGAR TS-1, 220XV-NAGARIUNASAGAR_AP-CHALAKURTHY-1
17	GI-2	TAMILNADU	22-09-2024 19:15	22-09-2024 21:39	02:24	133	0	0.27%	0.00%	48495.89	44380.54	Tripping of 400kV Bus-1 of 400kV/230kV NLC St-II: As per the reports submitted, the triggering incident was B-phase insulator failure in 400kV Bus-1 in 400kV/230kV NLC St-II: causing a B-N fault in 400kV Bus-1. Immediately, 400kV Bus-1 BBP operated tripping all elements connected to Bus-1.	400KV-NEYVELI_TS2_EXP-PUGALUR-1, 400KV- NAGAPATTNAM_PS-NEYVELI_TS1_EXP-1, 400KV/230KV NEYVELI_TS_II-ICT-1
18	Gi-1	TELANGANA , ANDHRA PRADESH	30-09-2024 12:55	30-09-2024 13:27	00:32	160	0	0.31%	0.00%	51330.26	56558.11	Tripping of 220kV Bus-2 of 220kV Lower Sileru PH of APGENCO During antecedent conditions, 220kV Lower Sileru PH was operating with bus split conditions. As per the reports submitted, the triggering incident was tripping of 220kV Asupaka Lower Sileru line on B-N fault and the line tripped. Tripping of the only connected line led to tripping of units on over frequency. This led to outage of 220kV Bus-2 of 220kV Lower Sileru PH.	220KV-ASUPAKA-LOWER_SILERU-1, LOWER_SILERU - 220KV - Bus 2
19	GI-1	TAMILNADU	30-09-2024 17:24	30-09-2024 18:05	00:41	0	0	0.00%	0.00%	47497	50624	Tripping of 230kV Bus-1 of 400kV/230kV Karamadai SS of TANTRANSCO As per the reports submitted, the triggering incident was B-N fault near 400kV/230kV (cr-1. Immediately, differential protection operated and but LV side breaker failed to open. Subsequently, LBB operated and all elements connected to the 230kV Bus-1 tripped.	230KV-PUSHEP-KARAMADAI-1, 230KV-INGUR- KARAMADAI-1, 400KV/230KV KARAMADAI-ICT-1, 230KV-KUNDAH3-KARAMADAI-1, 230KV-KARAMADAI- KARUVALUR-2

							Det	ails of G	rid Ev	ents duri	ng the N	Ionth of Sept 2024 in Eastern Region	🕡 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gene load during	eration / loss of the Grid Event	% Loss of gener load w.r.t Ar Generation/L Regional Grid du Even	ration / loss of ntecedent .oad in the uring the Grid nt	Antecedent Genera Regional	ation/Load in the l Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
						No	GD/G	6l repo	rted	in Easte	ern reg	ion in the month of September 2024	

					De	tails of	f Grid E	events d	uring t	he Month	of Sep	t 2024 in North Eastern Region	🚺 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gene load during	eration / loss of the Grid Event	% Loss of gener load w.r.t A Generation/I Regional Grid da Eve	ration / loss of ntecedent .oad in the uring the Grid nt	Antecedent General Regional	tion/Load in the Grid®	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD I	Mokokchung(PG), Mokokchung(NL) and Longnak area of Nagaland Power System	02-09-2024 15:36	02-09-2024 16:55	01:19	0	23	0.00%	0.76%	2471	3019	Mokokchung(PG), Mokokchung(NL) and Lognak area of Nagaland Power system are connected with rest of NER Grid through 220kV Marian(IPG)-220kV Mokokchung(220kV) ckt 1 and ckt 2 and through 132kV Doyang – Mokochung, 132kV Doyang – Mokokchung line tripped at 1534 hs of 020-92024 At 1536 hs of 02-09-0242 At 20kV Marian(IPG)- Mokokchung(PG) ckt 1 and ckt 2. Due to tripping of these elements, Mokokchung(PG), Mokokchung(NL) and Lognak area of Nagaland Power system were isolated from NER Grid. Power was extended to Mokokchung area of Nagaland Power System by charging 220kV Mariani(PG)-Mokokchung(PG) ckt 1 at 16:55hrs of 02-09-2024.	220kV Mariani(PG)-Mokokchung(PG) I & II lines
2	GD I	Gossaigaon Area of Assam Power System	03-09-2024 10:32	03-09-2024 11:11	00:39	o	6	0.00%	0.23%	2518	2622	Gossaigon area of Assam Power System was connected with NER Power system via 132kV Dhaligaon-Gossaigaon- Gauripur link (132 kV Gauripur- Gossaigaon was kept open due to system requirement). At 10:32 kr so di 30:9 2024, 132 kV Dhaligaon-Gossigaon line tripod due to which Gosaigaon 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 132 kV Dhaligaon-Gossaigaon line at 11:11 Hrs of 03.09.2024.	132 kV Dhaligaon-Gossaigaon line
3	GD I	Rengpang area of Manipur Power System	03-09-2024 10:36	03-09-2024 15:29	04:53	0	1	0.00%	0.04%	2531	2627	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 10:26 Hrs of 03-09-2024, 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 15:29 Hrs of 03.09.2024.	132 kV Loktak – Rengpang line
4	GD I	Wokha area of Nagaland Power System	05-09-2024 09:31	05-09-2024 09:43	00:12	o	3	0.00%	0.12%	2292	2497	Works area of Nagaland Power System was connected with connected to NER Power system via 132kV Wokha- Chiephobozou, and 132 kV Sanis-Wohka lines. At 08:45 Hrs of 05.09 2024, 132 kV Wokha-Chiephobozou line tripped due to whichWokha area of Nagaland Power System was isolated from NER Grid and collapsed due to no source available in these area. Power supply was extended to Wokha area of Nagaland Power System by charging 132kV Wokha-Chiephobozou line at 09:43 Hrs of 05.09 2024.	132 kV Wokha-Chiephobozou line
5	GD I	Rongkhon, Ampati and Phulbari area of Meghalaya Power System and Ganol HEP of Meghalaya Power System	06-09-2024 09:34	06-09-2024 09:47	00:13	0	28	0.00%	1.04%	2384	2688	Rongkhon, Ampati and Phulbari area of Meghalaya Power System and Ganol HEP were connected with rest of NER Grid via 132 kV Nangalbibra-Rongkhon Line. At 09:34 Hrs of 06.09.2024, 132 kV Nangalbibra-Rongkhon Line tripped. Due to tripping of these elements, Rongkhon, Ampati and Phulbari area of Meghalaya Power System and Ganol HEP were isolated from NER Grid and collapsed due to load generation mismatch in these areas. Power was extended to Rongkhon, Ampati and Phulbari area of Meghalaya Power System and Ganol HEP by charging 132 kV Nangalbibra-Rongkhon Line at 09:47 Hrs of 06.09.2024.	132 kV Nangalbibra-Rongkhon Line
6	GD I	Leshka Generating station o Meghalaya Power System	f 06-09-2024 22:06	06-09-2024 22:24	00:18	25	0	0.74%	0.00%	3380	3397	Leshka Generating station of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khlehriat D/C Lines. At 22:06 Hrs of 06.09.2024, 132 kV Myntdu Leshka - Khleihriat 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. Leska Generating is connected with the rest of the grid by charging 132 kV Myntdu Leshka - Khleihriat 1 at 22:24.	132 kV Myntdu Leshka - Khleihriat D/C Lines

			Affected Area Time and Date of Recurrence of Grid Event Details of Grid Events during the Month of Sept 2024 in North Eastern Region Affected Area Time and Date of Recurrence of Grid Event Loss of generation / Isos of Resortation / Iso													
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gene load during	ration / loss of the Grid Event	% Loss of gener load w.r.t A Generation/L Regional Grid du Even	ration / loss of ntecedent Load in the uring the Grid nt	Antecedent General Regional	ion/Load in the Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped			
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)					
7	GD I	Mokokchung(NL) and Longnak areas of Nagalanad Power System	07-09-2024 15:43	07-09-2024 17:23	01:40	0	29	0.00%	0.90%	2413	3218	Nokokchung[NU] and Longenka rass of Nagaland Power System were connected with connected to NER Power system via 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 1 Line, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line, 132 kD Oyang - Mokokchung (DoP, Nagaland) Line and 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line, 132 kV Doyang - Mokokchung (DoP, Nagaland) 1 Line, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line, 132 kV Doyang - Mokokchung (DoP, Nagaland) Line, 132 kV Mokochung-(PG) - Mokokchung (DoP, Nagaland) 2 Line 132 kV Doyang - Mokokchung (DoP, Nagaland) Line, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line 132 kV Doyang - Mokokchung (DoP, Nagaland) Line, 132 kV Mokochung (PG) - Mokokchung Longen kW a schended to Mokokchung) Lane at Nagaland 2 Line a Magaland Power System were kolated from KER Grid and collapsed due to no source available in these areas. Power supply was extended to Mokokchung Line, area Magaland Power System thor changen 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) Line at 17:23 Hrs of 07.09.2024. 132 kV Mokochung (PG)-Mokokchung (DoP, Nagaland) 2 Line charged at 17:42 Hrs of 07.09.2024.	132 kV Mokochung (PC) - Mokokchung (DoP, Nagaland) 1 Line, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line, 132 kV Doyng- Kokokchung (DoP, Nagaland) Line and 132 kV Mokokchung-Longnak Line			
8	GD I	Deomali area of Arunachal Pradesh Power System	07-09-2024 17:16	08-09-2024 16:32	23:16	0	1	0.00%	0.03%	2441	3098	Deomali area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV AGBPP-Deomali line. At 17:16 Hrs of 07-09-2024, 220 kV AGBPP-Deomali line tripped. Due to tripping of this element, Deomali 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 Deomali area by charging 220 kV AGBPP-Deomali line at 16:32 Hrs of 08.09.2024.	220 kV AGBPP-Deomali line			
9	GD I	Ziro, Daporizo, Along, Pasighat, Roing, Teru, Namsia areas of Arunachal Pradesh Power System and Chapakhowa, Rupai, Margherita areas of Assam Power System	07-09-2024 18:09	07-09-2024 18:29	00:20	0	72 MW Assam & 42 MW Arunachal Pradesh	-	-	3117	3680	Ziro, Daporizo, Along, Pasighat, Roing, Tezu, Namsai areas of Arunachal Pradesh Power System and Chapakhowa, Rupai, Margherita areas of Assam Power System were connected with connected to NER Power system via 132 kV Rupai – Tinsuka line and 132 kV Margheria – Tinsuka line and 132 kV Margherita areas of Assam Power System New Evolution NER Grid and Collapsed due to no Jource available in these areas. Power supply was extended to Chapakhowa, Rupai Margherita areas of Assam Power System by charging 132 kV Rupai – Tinsuka line 4 18:29 Hrs of 07:09 24. Subsequently power supply was extended to Ziro area of Arunachal Pradesh Power System by charging 132 kV Rupai – Tinsuka line 4 18:22 Hrs of 07:09 24. Subsequently power supply was extended to Ziro area of Arunachal Pradesh Power System by charging 132 kV Rupai – Tinsuka line 4 18:22 Hrs of 07:09 24. Subsequently power supply was extended to Ziro area of Arunachal Pradesh Power System by charging 132 kV Rupai – Tinsuka line 4 18:22 Hrs of 07:09 24. Rower supply was extended to Roing, Tezu, Namsai areas of Arunachal Pradesh Power System by charging 132 kV Rupai – Tinsuka line 4 19:29 Hrs of 07:09 24. Rower supply was extended to Roing, Tezu, Namsai areas of Arunachal Pradesh Power System by charging 132 kV Rupai – Tinsuka line 4 19:29 Hrs of 07:09 24. Rower supply was extended to Roing, Tezu, Namsai areas of Arunachal Pradesh Power System by charging 132 kV Rupai – Tinsuka Rupai – 19:38 Hrs and 19:40 Hrs 07:09 24. Rower Supply bus 24 kV Rezu- Namsai lines at 19:38 Hrs and 19:40 Hrs 07:09:24 respectively.	132 kV Rupai – Tinsukia line and 132 kV Margherita –Tinsukia line			
10	GD I	Mokokchung(NL) areas of Nagalanad Power System	07-09-2024 21:36	07-09-2024 22:35	00:59	0	33	0.00%	0.93%	3277	3554	Mokokchung(NL) area of Nagaland Power System were connected with NER Power system via 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 1 Line, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line, 132 kV Doyang - Mokokchung (DoP, Nagaland) Line was under emergency shutdown since 19:39 Hrs of 07-09-2024. Also, 132 kV Mokokchung(NL)-Longnak line tripped at 15:43 Hrs of 07.09-2024. At 21:36 Hrs of 07.09-2024, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 1 Line, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line tripped due to which Mokokchung(NL)area of Nagaland Power System was isolated from NER Grid and collapsed due to no source available in this area.	132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 1 Line, 132 kV Mokochung (PG) - Mokokchung (DoP, Nagaland) 2 Line, 132 kV Doyang - Mokokchung (DoP, Nagaland) Line			
11	GD I	Rengpang area of Manipur Power System	09-09-2024 02:31	09-09-2024 15:45	13:14	0	1	0.00%	0.04%	2241	2659	Rengpang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak-Rengpang line. 132kV-liribam-Rengpang line was under long outage since 18:18 Hrs of 17.11.2023. At 02:31 Hrs of 09-09-2024, 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 15:45 Hrs of 09.09 2024.	132 KV Loktak-Rengpang line			
12	GD I	400/220 kV Killing 5/5 of Meghalaya Power system	10-09-2024 07:21	10-09-2024 10:23	03:02	0	117	0.00%	4.28%	2621	2731	400 kV Killing S/S is connected with rest of NER grid via 400 kV Bongaigaon-Killing line, 400 kV Silchar-Killing line and 400/220 kV ICT at Killing. 220 kV Killing S/S is connected with rest of NER grid through 220 kV Misa-Killing D/C lines, 220 kV Mawnga-Killing D/C lines and 220/132 kV ICT-I at IKilling 23123 kV ICT-I at IKilling was under shutdown. At 07:21 Hrs of 10.09.2024, 400 kV Bongaigaon-Killing line, 400 kV Silchar-Killing line, 220 kV Misa-Killing D/C lines, 220 kV Mawnga-Killing D/C lines and 220/132 kV ICT-I at Killing tripped which caused blackout of Killing Bus of Meghalaya Power system. Power vas extended to 220 kV Killing S/S by charging 220 kV Mawngap-Killing D/C lines at 10:09 Hrs of 10.09.2024. Power was extended to 400 kV Killing S/S by charging 400 kV Silchar-Killing line at 01:23 hrs of 10.09.2024.	400 kV Bongaigaon-Killing line, 400 kV Silchar-Killing line, 220 kV Misa-Killing D/C Lines, 220 kV Mawngap-Killing D/C lines and 220/132 kV ICT-II at Killing			
13	GD I	New Shillong Substation of Meghalaya Power System	10-09-2024 14:39	10-09-2024 15:14	00:35	0	0.5	0.00%	0.02%	2537	3018	New Shillong Substation of Meghalaya Power System was connected with rest of NER Grid through 220kV Mawngap-New Shillong line D/C lines. At 14.39 Hrs of 10-09-2024, 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 220kV Mawngap-New Shillong line D/C line at 15:14 hrs of 10-09-2024.	220 kV Mawngap-New Shillong line D/C lines			

					De	tails of	Grid F	Events du	uring t	he Month	of Sept	2024 in North Eastern Region	🚺 गिड-डेडिया GRD-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gener load during th	ration / loss of he Grid Event	% Loss of genera load w.r.t An Generation/Le Regional Grid dua Even	tion / loss of tecedent and in the ring the Grid t	Antecedent Genera Regional	ion/Load in the Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
14	GD I	Rengpang area of Manipur Power System	11-09-2024 11:05	12-09-2024 11:53	24:48	0	1	0.00%	0.05%	2433	2222	Rengang 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 17.11.2033. At 11:05 Hrs of 11:09-2024, 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 11:53 Hrs of 12.09.2024.	132 kV Loktak-Rengpang line
15	gd II	AGTCCPP Generating station of Tripura Power System	12-09-2024 13:43	12-09-2024 15:04	01:21	44	0	1.88%	0.00%	2343	2773	ADITCLPY Generating station of Tripura Power System was connected with NEK Power System via 132 EV AGITCLPY - KUMARGHAT Line, 132 EV AGARTALA - AGTCCPP 2 Line and 132 EV AGTCCPP - P. Kan J/C Lines. 132 EV AGTCPP-Agartal 1 Line was in the process of taking SDD and breaker was closed at Agartala end and breaker for this line opened at AGTCCPP end only. At 13-43 Hor of 120 2020, 132 EV AGTCCPP. CMRGHATL Inc. 132 EV AGATTAL- AGTCCPP 2 Line and 132 EV AGTCCPP - P. KBari D/C Lines tripped due to which AGTCCPP Generating station of Tripura Power System was blackout due to loss of evacuation path.	132 kV AGTCCPP - KUMARGHAT Line, 132 kV AGARTALA - AGTCCPP 2 Line and 132 kV AGTCCPP - P K Bari D/C lines
16	GD I	Rengpang area of Manipur Power System	12-09-2024 23:39	14-09-2024 16:31	40:52	0	1	0.00%	0.05%	2433	2222	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 23:39 Hrs of 12-09-2024, 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 16:31 Hrs of 14.09.2024.	132 kV Loktak-Rengpang line
17	GD I	Along area of Arunachal Pradesh Power System	13-09-2024 14:24	13-09-2024 17:45	03:21	0	5	0.00%	0.17%	2324	2929	Along area of Arunachal Pradesh Power System was connected with rest of NER Power system through 132 kV Basar- Along line. 132 kV Along - Pasighat Line was under continuous planned shutdown. At 12-24 Hrs of of 13.09.2024, 132 kV Basar-Along line tripped. Due to tripping of this element, Along area of Arunachal Pradesh Power System was isolated from NER Grid and collapsed due to no source available in this area. Power is restored to the Along area of Arunachal Pradesh Power System by charging 132kV Along-Basar line at 17:45 Hrs of 13.09.2024.	132 kV Basar-Along line
18	GD I	Umiam Stage IV of Meghalaya Power System	16-09-2024 13:38	16-09-2024 14:23	00:45	54	0	2.22%	0.00%	2435	2827	Umiam Stage IV of Meghalaya Power System was connected with rest of NER Grid via 132 KV Umiam Stage IV-Umtru D/C Lines & 132kV Umiam Stage IV-Umiam Stage III D/C Lines. At 13-38 Hrs of 16-09-2024, 132 kV Umiam Stage IV-Umtru D/C Lines & 132kV Umiam Stage IV Umiam Stage III D/C Lines tripped. Due to the tripping of these lines, Umiam Stage IV of Meghalaya Power System was isolated from NER Grid. Power supply was extended to Umiam Stage IV of Meghalaya Power System by charging 132 kV Umiam Stage IV-Umiam Stage III Line 2 at 14:23 Hrs of 16-09-2024.	132 KV Umiam Stage IV-Umtru D/C Lines & 132KV Umiam Stage IV Umiam Stage III D/C Lines
19	GD I	Rengpang area of Manipur Power System	18-09-2024 12:23	18-09-2024 12:47	00:24	0	1	0.00%	0.03%	2388	2976	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 12:23 Hrs of 18-09-2024, 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 supply was extended to Rengpang area of Manipur Power system by charging 132 kV Loktak-Rengpang line at 12:47 hrs of 18-09-2024.	132kV Loktak-Rengpang line

				ा जिन्न- GRID-INDIA									
SI No.	Category of Grid Event (GI lor GI 2/	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gener load during t	ration / loss of the Grid Event Load Loss	% Loss of generation/L load w.r.t Ar Generation/L Regional Grid du Even % Generation	ation / loss of ntecedent oad in the rring the Grid at	Antecedent Genera Regional	tion/Load in the Grid* Antecedent	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
20	GD1	Mariani area of Assam Power System	18-09-2024 18:24	18-09-2024 18:43	00:19	0	1	0.00%	0.03%	3421	3787	132 kV Mariani S/S of Assam power system is connected with rest of NER grid via 132 kV Mariani-Golaghat line, 132 kV Mariani-Jorhat 1&11 lines and 132 kV Mariani-LTP5 line. At 18:24 Hrs of 18.09.2024, all the lines connected to 132 kV Mariani S/S tripped due to spurious LBB operation of 132 kV Mariani-Jorhat L line. Power was extended to 132 kV Mariani S/S by charging 132 kV Mariani-Golaghat line at 18:43 Hrs of 18.09.2024.	132 kV Mariani-Golaghat line, 132 kV Mariani-Jorhat I&II lines and 132 kV Mariani-LTPS line.
21	GD I	Rengpang area of Manipur Power System	19-09-2024 12:40	19-09-2024 16:32	03:52	0	1	0.00%	0.03%	2388	2976	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 12:40 Hrs of 19-09-2024, 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 16:32 Hrs of 19.09.2024.	132 kV Loktak - Rengpang line
22	GD I	Lumshnong area of Meghalaya Power System	21-09-2024 14:19	21-09-2024 14:58	00:39	0	20	0.00%	0.73%	2405	2741	Lumshnong area of Meghalaya Power System was connected with connected to NER Power system via 132 kV Lumshnong - Khilehriat Line. 132 kV Lumshnong - Panchgram Line was under outage since 12:58 Hrs of 21.09.2024. At 14:19 Hrs of 21.09.2024, 132 kV Lumshnong - Khilehriat Line tripped due to which Lumshnong area of Meghalaya Power System was isolated from KER Grid and collapsed due to no source available in this area. Power supply was extended to Lumshnong area of Meghalaya Power System by charging 132 kV Lumshnong - Panchgram Line at 14:30 Hrs of 21.09.2024.	32 kV Lumshnong - Khliehriat Line
23	GD I	Nongstoin area of Meghalaya Power System	21-09-2024 14:29	21-09-2024 14:58	00:29	0	7	0.00%	0.21%	3261	3358	Nongstoin area of Meghalaya Power System was connected with connected to NER Power system via 132 KV Nangalbibra- Nongstoin line. 132kV Mawngap(Mawphlang)- Nongstoin already tripped at 12-52 Hrs of 21.09.2024 and it is under emergency Shutdown. At 14-29 Hrs of 21.09.2024, 132 kV Nangalbibra-Nongstoin line tripped due to which Nongstoin area of Meghalaya Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to : Nongstoin area of Meghalaya Power System by charging 132 KV Nangalbibra-Nongstoin line at 14:58 Hrs of 21.09.2024.	132 kV Nangalbibra-Nongstoin line
24	GD I	Ziro, Daporijo, Basar, Along, Pasighat, Roing, Teru, Namsai areas of Arunachal Pradach Rover System and Chapakhowa areas of Assam Power System	24-09-2024 00:18	24-09-2024 01:57	01:39	0	12 MW in Arunachal Pradesh and 4 MW in Assam	-	-	2721	2908	Ziro, Daporijo, Basar, Along, Pasighat, Roing, Tezu, Namsai areas of Arunachal Pradesh Power System and Chapakhowa areas of Assam Power System are connected with the rest of NHB grid via 132 kV Panyor-Ziro line and 132 kV Rupai- Chapakhowa lines. Prior to the event 132 kV Panyor-Ziro and 132 kV Ziro-Daporijo lines were under forced oudge since 22:18 Hrs & 23:27 Hrs of 23:09.2024 respectively. 132 kV Ziro-Daporijo line tripped at 23:27 Hrs resulting in blackout of Ziro S/S at 132 kV Panyor-Ziro line was under outage. At 00:18 Hrs of 24:09-2024, 132 kV Rupai-Chapakhowa line tripped. Due to tripping of this line, Daporijo, Basar, Along, Pasighat, Roing, Tezu, Namsai areas of Arunachal Pradesh Power System and Chapakhowa areas of Assam Power System was isolated from NER Grid and collapsed due to no source available in these areas. Power was extended to Chapakhowa area by charging 132 kV Rupai-Chapakhowa line at 01:35 Hrs of 24.09.2024, 132 kV Along, Chapakhowa 182 were charged at 01:44 hrs 80:157 hrs respectively and power extended to Daporijo, Basar, Along, Pasighat, Tezu, Namasai area of Arunachal Pradesh power system.	132 kV Rupai-Chapakhowa line
25	GD I	Daporijo,Basar,Along and Pasighat area of Arunachal Pradesh Power System	24-09-2024 19:17	24-09-2024 19:55	00:38	0	13	0.00%	0.39%	3415	3345	Daporijo, Basar, Along and Pasighat area of Arunachal Pradesh Power System were connected with rest of NER Power system through 132 kV Chapakhowa-Roing-Pasighat-Along-Basar-Daporijo link. 132 kV Ranganadi-Ziro was under forced outage since 22:18 Hrs of 23:09-2024. At 19:17 Hrs of 24:09-2024, 132 kV Roing-Pasighat line tripped. Due to tripping of this element, Daporijo,Basar, Along and Pasighat area of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Daporijo,Basar, Along and Pasighat areas of Arunachal Power System by charging 132 kV Roing-Pasighat at 19:55 Hrs.	132 kV Roing-Pasighat line

					De	tails of	Grid E	vents du	uring t	he Month	of Sept	2024 in North Eastern Region	👔 ग्रिड-इंडिया GRID-INDIA
S1 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 gener load during t	ration / loss of he Grid Event	% Loss of genera load w.r.t An Generation/Lo Regional Grid du Even	ation / loss of atecedent oad in the aring the Grid at	Antecedent Generat Regional	ion/Load in the Grid®	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
26	GD I	Ziro area of Arunachal Pradesh Power System	24-09-2024 21:16	25-09-2024 17:16	20:00	0	2	0.00%	0.06%	3401	3317	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Power system through 132 kV Ziro-Daporijo line. 132kV Ranganadi-Ziro was under forced outage since 22:18 Hrs of 23-09-2024. At 21:16 Hrs of of 24.09.2024, 132 kV Ziro-Daporijo line tripped. Due to tripping of this element, Ziro area of Arunachal Pradesh Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Ziro area by charging 132 kV Ziro-Daporijo line at 17:16 Hrs of 25.09.2024.	132 kV Ziro-Daporijo line
27	GD I	Daporijo, Basar, Along and Pasighat area of Arunachal Pradesh Power System	24-09-2024 23:15	24-09-2024 23:59	00:44	0	16	0.00%	0.52%	3089	3086	Daporijo,Basar, Along and Pasighat area of Arunachal Pradesh Power System were connected with rest of NER Power system through 132 kV Roing-Pasighat line. 132kV Ranganadi-Ziro was under forced outage since 22:18 Hrs of 23-09-2024 and 132kV Daporijo- Ziro line declared faulty since 21:16 Hrs of 24-09-2024. At 23:15 Hrs of of 24.09.2024, 132 kV Roing-Pasighat line tripped. Due to tripping of this element, Daporijo, Basar, Along and Pasighat area of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Pasighat area of Arunachal Power System by charging 132 kV Roing-Pasighat at 23:59 Hrs.	132 kV Roing-Pasighat line
28	GD I	Daporijo, Basar, Along and Pasighat area of Arunachal Pradesh Power System	25-09-2024 01:17	25-09-2024 01:56	00:39	0	14	0.00%	0.49%	2751	2834	Daporijo, Basar, Along and Pasighat area of Arunachal Pradesh Power System were connected with rest of NER Power system through 132 kV Roing-Pasighat line. 132kV Ranganadi-Ziro was under forced outage since 22:18 Hrs of 23-09-2024 and 132kV Daporijo- Ziro line declared faulty since 21:16 Hrs of 24-09-2024. At 01:17 Hrs of of 25.09.2024, 132 kV Roing-Pasighat line tripped. Due to tripping of this element, Daporijo, Basar, Along and Pasighat area of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Daporijo, Basar, Along and Pasighat areas of Arunachal Power System by charging 132 kV Roing-Pasighat at 01:56 Hrs of 25.09.2024.	32 kV Roing-Pasighat line
29	GD I	Pasighat area of Arunachal Pradesh Power System	25-09-2024 03:47	25-09-2024 04:32	00:45	0	2	0.00%	0.08%	2542	2509	Pasighat area of Arunachal Pradesh Power System was connected with rest of NER Power system through 132 kV Pasighat — Roing line. — Roing line. 132kV Rangandi-Ziro was under forced outage since 22:18 Hrs of 23-09-2024 and 132kV Daporijo-Ziro line declared faulty since 21:16 Hrs of 24-09-2024. 132kV Daporijo-Basar-Along-Pasighat link was under outage since 01:56 Hrs of 25.09.24. A 03:47 Hrs of of 25.09.2024, 132 kV Roing-Pasighat line tripped. Due to tripping of this element, Daporijo, Basar, Along and Pasighat area of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Pasighat area of Arunachal Power System by charging 132 kV Roing-Pasighat at 04:32 Hrs of 25.09.24.	132 kV Roing-Pasighat line
30	GD I	Bokajan area of Assam Power System	25-09-2024 16:24	25-09-2024 16:51	00:27	0	1	0.00%	0.04%	2557	2594	Bokajan area of Assam Power System was connected with rest of NER Power system through 132 kV Sarupathar-Bokajan line & 132 Dimapur-Bokajan line. At 16:24 Hrs of 25.09.2024, 132 kV Sarupathar-Bokajan line & 132 Dimapur-Bokajan line tripped. Due to tripping of these elements, Bokajan area of Assam Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Bokajan area of Assam Power System by charging 132 kV Sarupathar-Bokajan at 16:51 Hrs of 25.09.2024.	132 kV Sarupathar-Bokajan line & 132 Dimapur-Bokajan line