									Details of Grid Events du on / loss of load w.r.t ration/Load in the Regional Grid*		ents during	the Month of September 2023 in Northern Region	😯 गिड-इंडिया GRID- INDIA
SI N	Category of Grid Event	Affected Area	Time and Date of occurrence	Time and Date of Restoration	Duration	Loss of generation the G	a / loss of load during irid Event	% Loss of generation Antecedent Genera Regional Grid duri	a / loss of load w.r.t ation/Load in the ng the Grid Event	Antecedent Generat Regional (ion/Load in the Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)		or Grad Event		(HEMM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Loar (MW)	a	
1	60-1	Uttar Pradesh	03-5ep-2023 00:05	03-5ep-2023 00-25	00:20	0	750	0.000	1.021	56899	73429	During antecedent condition. 220W Samuth(UP): Gasigur(UP) CL1 was opened from Samuth(UP) end due to overloading of ICTs at Samuth(UP). I) As reported, at 00:05 km, 400 (220W S0MWA K-1-1 at kara (UP) tripped due to overloading. I) Charling antecedent condition. 220W Samuth(UP): Gasigur(UP) CL1 was already open, with the tripping of 400/220W S0MWA K-1-1 at Rara(UP), major load of Rass and Gasigur complex was fed by Month(UP). I) One to the 35-55 period due to overloading of ICTs at Samuth(UP). I) One to the 35-55 period due to overloading of 400/220W S0MWA K-1-1 at Rara(UP), major load of Rass and Gasigur complex was fed by Month(UP). Maharagan(FC) CL1 12W Conshipurenv(UP)-Katharagan(FC) CL1 12W Conshipur(UP)-Donic(UP) CL1 12W Conshipur(UP)-Donic(UP) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipurenv(UP)-Katharagan(FC) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipur(UP) Constipur(UP) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipur(UP) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipur(UP). Maharagan(FC) CL1 12W Conshipur(UP). Maharagan	1 400/226kV 500MVA (CT-1 at Rasra(UP) 21 32AV Gorahbpur-new(UP)-Khataga(UP) 31 32AV Gorahbpur-new(UP)-Khataga(UP) 41 226AV Gorahbpur-1(UP)-Qetraftup)/ Qt 31 23AV Gorahbpur-1(UP)-Getraftupur-2(UP) Qt 61 226AV Gorahbpur-1(UP)-Getraftupur-2(UP) Qt 71 226AV Assra(UP)-Getraftupur-2(UP) Qt 72 226AV Assra(UP)-2(UP) Qt 72 226AV Assra(UP)-2(UP)-2(UP) Qt 72 226AV Assra(UP)-2(
2	GI-2	Uttar Pradesh	03-Sep-2023 00:12	03-5ep-2023 00-32	00:20	D	380	0.000	0.527	56588	72118	N 400.07 krs, 220kV Samath(UP)-Gasipur(UP) Ckt was again charged from Samath(UP) end due to tripping of 400/220kV 500MVA ICT 1 at Runra(UP). (Previously 220kV Samath(UP)-Gasipur(UP) Ckt was opened from Samath(UP) end due to vortoading of ICTs at Samath(UP) at 00:25 krs) and Since 220k V sard(UP) Cost (UP) Ckt was opened from Samath(UP) end due to vortoading of ICTs at Samath(UP) kao (UP) can be obten due to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) at 00:25 krs) and Since 220k V sard(UP) Cost (UP) Ckt was opened from Samath(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) at 00:25 krs) and 0 protection due to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV 500MVA ICT 1 at Runra(UP) is updet to tripping of 400/220kV ICT 1 (71315MVA and 1500MVA; among these ICT 4 tripped already) at 400/220/132kV 5amath(UP) At 20kV 5amath(UP) is updet to tripping of 400/220kV 5amath(UP) is updet to	1] 400/220kV 315MVA ICT-4 at Samath(UP) 2] 132 kV Samath(UP)-Sadgour(UP) Ckt 3] 220kV Samath(UP)-Asangan(UP) Ckt 2) 220kV Samath(UP)-Ghacipur(UP) Ckt 5] 220kV Samath(UP)-Ghacipur(UP) Ckt
з	GD-1	Rajasthan	04-5ep-2023 12:37	04-5ep-2023 13:13	00:36	0	585	0.000	0.732	67572	79890	(22)/123V Debas(5) has connectivity from 220V Amber and 400/224V Ohltograf(5). If During intercedent coeffice, IEEW was come to 220/123W Amber(65) through 220V and 200 (5) (5) and 121MW was going out from 220/123W Amber(65) has a first observation of the second and the provers and howing 220/123W Amber(65) (5) and 200 (5) (5) and 200 (5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	1] 220 KV Amberi(RS)-Kankrol(PG) (RS) CKt 2] 400/220 KV 315 MVA ICT 1 at Chittorganh(RS) 3] 400/220 KV 315 MVA ICT 2 at Chittorganh(RS)
4	Gi-1	Uttar Pradesh	05-5ep-2023 09:56	07-Sep-2023 10:51	00:55	187	0	0.293	0.000	63839	76167	During antecedent condition, 210 MW Unchahar III TPS-UNIT 1 (arrying "187MW), 210 MW Unchahar III TPS-UNIT 1 (was going under shuddown) and 220 W feeders to Kanpur (141: 4 iii) were connected to 220 W bin-3. Rest of the elements were connected to other 220 W backs. II) A reported, expôsion, while taking endown of 210 MW Unchahar III TPS-UNIT 1 houses generator. CB was opened, Y-ph pole of the breaker didn't conn. ID bet to this, pole discreptory retry operated but breaker didn't not open and remained stuck in closed position. ID bet to this, pole discreptory retry operated but breaker didn't not open and remained stuck in closed position. ID bet to this, pole discreptory retry operated but breaker didn't not open and remained stuck in closed position. ID bet to this approxima, all the dements connected at 220 W bes 1 a, 220 MW Unchahar III TPS-UNIT 1 and 220 W feeders to Kanpur (skri & III) tripped. Id approximately the dements connected at 220 W bes 1 a, 220 MW Unchahar III TPS-UNIT 1 and 220 W feeders to Kanpur (skri & III) tripped. Wil A per FVL ACADA, generation loss of approx. 187/MW at Unchahar TPS occurred.	1) 220 KV Kanpur(PG)-Unchabre(NT) (PG) CH-1 2) 220 KV Kanpur(PG)-Unchabre(NT) (PG) CH-3 3) 220 MV Unchabre III TPS-UNIT 1 4) 220 MW Unchabre III TPS- UNIT 1
5	GI-2	Uttar Pradesh	05-5ep-2023 12:50	05-Sep-2023 14:30	01:40	0	0	0.000	0.000	67091	78696	I During attractedent condition, 765 KV Obra, C. 175-Unnau (UP) et al ad 755 KV Angura, C(LM)-Unnav(UP) (UP) C15 were carrying approx. 846AW & 913AWV respectively, II Ak reported, wit 25:0 kr., 766 KV Obra, C. 175-Unnau (UP) et tripped on B-M phase to earth Induit, fault was in 2-1(148km) from Unnoa end. At the same time, 765 KV Angura, C(LAN)-Unnav(IP) (UP) C1 allow Topped on Te efferential protection operation at Unnoa end at the same time, 765 KV Angura, C(LAN)-Unnav(IP), IV) Plate to ent Induit with on A portation is observed. IV) As per MUL turnes(C), B-M plates to ent Induit with on A/R operation is observed. IV) With the tripping of dorremittioned 750KM Insue, XO-1054 Angura, C-2014, B-4 Kin resease to =747AW. IV) With the tripping dorremittioned 750KM Insue, XO-1054 Angura, C-2014, B-4 Kin resease to =747AW. IV) As a remedial action, units of Angara-A,B,C&D thermal plants were back down to technical minimum. Line loading in the complex came within Simmutes.	1) 765 KV Anpara, C(LAN)-Unnao(UP) (UP) Ck-1 2) 765 KV Obra_C, TPS-Unnao (UP) ckt
6	GD-1	HP	06-Sep-2023 06:44	06-Sep-2023 06-59	00:15	40	150	0.079	0.219	50371	68491	(A Ar reported, at 06 44 km, 220 KV Kumhar-Buddi ckt-162 trigged on over current exith fault protection operation. (Exact reason and location of fault yet to be shared) (I) At the same time, 220 KV Icon-Kumhar(P)(C kt, 220 VV Kumhar(P) op attricted.) (II) With the trigged of dormenticioned extensions load 270/2132/VV kumhar(P) op attricted. (IV) As per VAUV, 45 fault converted into three phase fault with debyed destance in BROmsec is Observed. (IV) As per VAUV, 45 fault converted into three phase fault with debyed destance in BROmsec is Observed. (IV) As per VAUV, 45 fault converted into three phase fault with debyed destance in BROmsec is Observed. (IV) As per VAUV, 46 for fault vais in system of 2000 to the same and HP three operation loss of approx. 40MW (Bhabha HEP) is observed. (IV) As per VAUV, 46 for fault vais in system 470.221 kK, and 120/132KV Kumhar 5/s became dead. (IV) As per VAUV, 46 for fault vais in system 470.221 kK, and 120/132KV Kumhar 5/s became dead. (IV) As per VAUV, 46 for fault vais in system 470.221 kK, and 120/132KV Kumhar 5/s became dead.	1) 1) 220 VV Wangtoo -Binabha-Kunihar(HP) ckt ("connection) 2) 220 VV Jeen' Kunihar(HP) Ckt 3) 220 VV Badd-Kunihar(HP) Ckt-1 4) 220 VV Badd-Kunihar(HP) Ckt-2 5) 220 V1230/V Cf-1 at Cunihar(HP) 1) 220 V1230/V Cf-1 at Cunihar(HP) 1) 220 V1230/V Cf-3 at Kunihar(HP)
7	GD-1	Uttar Pradesh	06-Sep-2023 01:48	06-5ep-2023 02:43	00:55	O	130	0.000	0.174	52124	74681	1 220/132V Nanauta(U/P) 5/1 hai double main loss scheme at both 220 & 132 kV level. There are three (03) 220kV lines connected at 220kV Nanauta(U/P) i.e. 220kV lines to Subharampur(PG), Bashakalan(UP) 45 Nam(UP). 10 During antecedent condition, 220kV lines to Subharangur(PG), Bashakalan(UP) & Sham(UP) were carrying 200MW (lowerds Nanauta), 43MW (lowards Nanauta) and 22MW 10 Juning antecedent condition, 220kV lines to Subharangur(PG), Bashakalan(UP) & Sham(UP) were carrying 200MW (lowards Nanauta), 43MW (1) 220 KV Nanauta-Badhakalan (UP) Ckt 2) 220 KV Nanauta(UP) Saharangur(PG) (UP) Ckt 3) 220 KV Nanauta-Shami (UP) Ckt 2) 220 KV Nanauta-Shami (UP) Ckt 2) 220 KV 200 KV ACT-3 kt Nanauta(UP) 5) 220 KV 200 KV ACT-1 at Nanauta(UP)
8	GI-2	Uttar Pradesh	07-5ep-2023 12:37	07-5ep-2023 13:35	00:58	282	0	0.453	0.000	62257	79493	H 400/220KV Rosa(UP) 5/s has double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s has double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s has double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s has double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s has double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s has double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s has double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s has double main transfer bus scheme and and double main transfer bus scheme as 400 & 220KV level. H 200/220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 220KV Rosa(UP) 5/s Has double main transfer bus scheme as 400 & 20KV Rosa (UP) 5/s Has double main transfer bus scheme as 400 & 20KV Rosa (UP) 5/s Has double main transfer bus scheme as 400 & 20KV Rosa (UP) 5/s Has double main transfer bus scheme as 400 & 20KV Rosa (UP) 5/s Has double main transfer bus scheme as 400 & 20KV Rosa (UP) 5/s Has double main transfer bus scheme as 400 & 20KV Rosa (UP) 5/s Has double main transfer bus scheme as 40KV Rosa (UP) 5/s Has double main transfer Bus scheme as 40KV Rosa (Rosa (Rosa (Rosa (Ro	11400/226KV 200MVA (CT-1 at Rosa(UP) 21400/226KV 200MVA (CT-1 at Rosa(UP) 31300 MV Rosa TFS-UNIT 2 2126KV Shajhaharqur(UP;Rosa TFS(UP) Ck-1 5126KV Shajhaharqur(UP;Rosa TFS(UP) Ck-2 226KV Rosa-Badan(UP) Ck-1 7) 226KV Rosa-Badan(UP) Ck-1 9) 226KV Rosa-Badan(UP) Ck-2 6) 226KV Rosa-Badan(UP) Ck-2 9) 226KV Rosa-Badan(UP) Ck-2 9) 226KV Rosa-Badan(UP) Ck-2 9) 226KV Rosa-Badan(UP) Ck-2 9) 226KV Rosa-Badan(UP) Ck-2 8) 226KV Ros

									Det	ails of Grid Eve	ents during	the Month of September 2023 in Northern Region	🚺 गिड-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 generation the G	n / loss of load during Grid Event	% Loss of generation Antecedent Gener. Regional Grid duri	n / loss of load w.r.t ation/Load in the ng the Grid Event	Antecedent Generat Regional (ion/Load in the Grid*	Brief details of the event (pre fault and pue fault system conditions)	Elements Tripped
	(GI 1or 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	GI-1	Punjab	08-5ep-2023 10:21	08-Sep-23 11:09	00:48	280	70	0.484	0.096	57809	72607	During antecedent condition, 120 MW Guru Gobind Gingt TPS (popur) -UNIT 4 (carrying ~162MW) & UNIT 5 (carrying ~112MW) and 220KV feeders to Kharar & Mohali were connected to 220KV (bir. 1 action). Bint of the elements were connected to Bir. 1 action-Kill and Bir. 2. (Bin ORB hese, 20 KUIN 64 a GGSSTW min in gifty uncondition after attending boller tube leakage. At 10:21kr, generator breaker was closed to synchronize the unit however, R- Bin ORB hese, 20 KGSTmann, relative generated but This time & explosed on the breaker ddin't not open and reamated stud: In closed position. Wi Gurtes, manual tripping command was initiated to trip the breaker but as bip pole of the breaker was in stud: condition, allie of the science at a study of the breaker was in study. Clis of the generator breaker operated. Wi but to this, bed existential and the demonstration effect at 200 KW Guru Gobind Singh TPS (Ropur) - UNIT 4 & 5 and 220KV feeders to Kharar & Mohali tripped. wi) A per FMU at Jakndhar(FG), no fault in system is observed. wi) A per FMU at Jakndhar(FG), no fault in system is observed.	1) 220 MW Guru Gobind Singh TPS (Ropar) - UNT 4 2) 220 MW Guru Gobind Singh TPS (Ropar) - UNT 5 3) 220W GGSSTP-Mohali ekt 4) 220W GGSSTP-Mohali ekt
10	GI-2	Uttar Pradesh	09-Sep-2023 15:24	09-Sep-2023 19-30	04:06	500	0	0.938	0.000	53328	66254	I) During antecedent condition, 480MW Unit-182 at Dadri Thermal Stage-2/(ITPC) were generating approx. 256MW 8.254MW respectively. Supply to FGD [Flue gas desulphurization] and PA fan was coming from common 11W bas. II) Are input starts at 15.24Mm, fault accurred in 11W reset to FGD [Flue gas desulphurization]. This feeder tripped with the delay of approx. 356msec on O/C E/F protection operation. III) Are input starts at 15.24Mm, fault accurred in 11W reset to FGD [Flue gas desulphurization]. This feeder tripped with the delay of approx. 356msec on O/C E/F protection operation. If A per communication with bair 175, Admin the fault, volgage of 11W loss dropped on 12W and as soon balac cleared, motor of PA fan drew current in the range of % SAA. Further, N fan motor tripped on O/C which further let to the tripping of mill and then units tripped on filme failure. If A per 57640A, change is generation of approx. 500MW at basis Thermal Stage 2(NTPC) is observed.	1) 450 MW Dadri Thermal stage-2 - UNIT 1 2) 450 MW Dadri Thermal stage-2 - UNIT 2
11	GD-1	Delhi	10-5ep-2023 17:08	10-Sep-2023 17:13	00:05	0	125	0.000	0.221	46035	56475	1) 220X V Badsrpur(DTL) has double main single breaker bus scheme. It has source from 220 V Tuglakabad-Badarpur (DTL) Ckt-182 and 220 V Ballabhgarh(BB)-Badarpur (DTL) Ckt- 182. 1) During metcedent condition, part load of 220X V Ohla and 220X Satita V har was fed from 220X Madarpur-DTL) via 220W Madarpur-ONha det: 82 and 220X V Badlappur-Sarita V hard set: 82 received. 10) A scheme term of the scheme term	11 220 kV Tuglekab stelladurpur (DTI, CA+1 21 220 kV Tuglekab Endergur (DTI, CA+2 22 20 kV Bahlsbygen (DTI, CA+1 41 220 kV Bahlsbygen (DTI, CA+1 41 220 kV Bahlsbygen (DTI, CA+2 52 220 kV Bahlsbygen (DTI, CA+2 52 220 kV Bahlsbygen (DTI) (CA+2 52 220 kV Bahlsbygen (DTI) (CA+2 52 220 kV Bahlsbygen (DTI) (CA+2 52 220 kV Bahlsbygen (DTI) (DTI) (CA+2 52 220 kV Bahlsbygen (DTI) (DTI) (DTI) (DTI) (DTI) (DTI) 52 220 kV Bahlsbygen (DTI) (
12	GD-1	Rajasthan	10-Sep-2023 14:28	10-Sep-2023 17:45	03:17	220	0	0.419	0.000	52504	62000	B During antecedent condition, total MW generation of MSUP; BE station was approx. 220MW and it was evacuated through 220 KV Bhadla2[PG]-MSUP[(MSUPPI] CLL ii) As reported, at 14.28ms, 72.00 KV Bhadla2[PG]-MSUPF (MSUPPI] CLL tripped on P-tybase to earth fault. iii) As per 9MU attrablicPQ]: Be Multi munuccestiul /A greation is observed. W As per 9KU attrablicPQ]: Be Multi munuccestiul /A greation is observed.	1) 220 KV Seora, <u>SL. BHO2, PG (Mega_SuryaUrja)-Bhadla</u> , 2 (PG) (Mega_SuryaUrja) Ckt-1
13	GD-1	Uttar Pradesh	11-Sep-2023 05:36	11-Sep-2023 06:36	01:00	0	465	0.000	0.817	41261	56925	i) 220/332V Azamgarh2(UP) 5(s has double main transfer bus scheme at both 220 & 132 V level. ii) As reported, at 05.36 km, 220V Bus-bar protection operated at Azamgarh2(UP) which resulted into tripping of all the elements connected to 220kV Bus-1 & 2 at Azamgarh2(UP). (Exart resourd busing transferiction operating with the barhard) iii) Due to loss of uspity at 132V level of Azamgarh2(UP), both 132V Bus-1 & 2 at Azamgarh2(UP) also became dead which resulted into total blackout of 220/1322V Azamgarh2(UP) of per VBU at Varamg(IC). Yi Albana tear the with his discurse time of Bitms is observed. w) Ap err SVB1 at Varamg(IC). Yi Albana tear this unit with fact discurse time of Bitms is observed. w) Ap err SVB1 at Varamg(IC). Yi Albana tear this unit with fact discurse time of Bitms is observed. w) Ap err SVB1 at Varamg(IC). Yi Albana tear with unit with fact discurse time of Bitms is observed. w) Ap err SVB1 at Varamg(IC) and a barbana tear with unit with fact discurse time of Bitms is observed. W) Ap err SVB1 at Varamg(IC) and a barbana tear with unit with fact discurse time of Bitms is observed. W) Ap err SVB1 at Varamg(IC) and a barbana tear at the Varamgarh2(IP) and the set of SVB1 at the SVB1 at	1 400/220 kV 500 MVA (CT at Azamgarh1(UP) 2 400/220 kV 500 MVA (CT at Azamgarh1(UP) 2 202123 kV 100 MVA (CT at Azamgarh2(UP) 4 202123 kV 200 MVA (CT at Azamgarh2(UP) 5 20213 kV 200 MVA (CT at Azamgarh2(UP) 6 2360 kV Azmgarh2 Henau(UP) (Ct 7 2024 V Azmgarh2 Sumper(UP) Ct
14	GD-1	Uttar Pradesh	12-5ep-2023 06:43	12-Sep-2023 07:15	00:32	0	125	0.000	0.207	47396	60478	2) 220/132V Skandra (Agra2) (UP) 5/h has double main transfer bus scheme at both 200 & 132 V level. However, during antecedent condition, all the elements were connected to 220V Bas 1 and anader were not in service condition. If the elements were connected to 220V Bas 1 and y 220V Bas 1 and	1 220 0V Annya(NT) Agr.2(UP) (PG) (25:1 222 0V Annya(NT) Agr.2(UP) (PG) (25:1 222 0V Annya(NT) Agr.2(UP) (PG) (25:1 220 Agr.2(UP) Agr.2(UP) (25:1 220 Agr.2(UP) Agr.2(UP) (25:1 220 Agr.2(UP) Agr.2(UP) (25:1 220 Agr.2(UP) Agr.2(UP) (25:1 220 Agr.2(UP) (25:1) (25:
15	GI-2	Uttar Pradesh	13-Sep-2023 07:50	13-Sep-2023 08:48	00:58	308	124	0.625	0.204	49310	60833	I) During antecedent condition, 200 MW Obra TPS - UNIT 12 was running through station transformer and generating approx. 124MW. II) An eported, at 07:30 hm, 400/220 KV 315 MM KT-11 at Obra 8(UP) trigned on it pix differential protection operation due to blast of 2200V R phase bushing of transformer. III) An eported, at 07:30 hm, 400/220 KV 315 MM KT-11 at Obra 8(UP) trigned on it pix differential protection operation due to blast of 2200V R phase bushing of transformer. Reviewers and CT Iteelf. III Art team time, "SS related to controlling of remaining CT after trigned on reviewers that CT Iteelf. III Art team time, "OV 2002 VV 315 MM KT-12 and 204 MKCT 12 and Dors 8(UP) to trigged on over-current extit - hast protection operation. W) During the same time, "SS related to controlling of remaining CT after trigged on over-current extit—hast protection operation. W) During the same time, "SS related to controlling of remaining CT after trigging of any KT at Obra 18" (SM KT at Obra 40). V) Along TMU at Aliababid(P), CH trigged. V) Along TMU at Aliababid(P), R Hpase to earth fault with fault clearance time of 80m is observed. V) Alorget neither in emixed of approx. 350MW is observed in UP control are and generation loss of approx. 324MW is observed at Obra 8(UP).	1 400/220 KV 315 MVA (CT-1 at Obra-B(UP) 24 00/220 KV 315 MVA (CT-1 at Obra-B(UP) 4 00/220 KV 240 MVA (CT-1 at Obra-B(UP) 4 200 MVA (Obra 179-1 MVT 12 4 200 MV And 179-1 MVT 12 2 200KV Obra-N(UP)-Here Road(UP) (Ct-1 2 200KV Obra-N(UP)-Herzapur(UP) (Ct-2 7) 220KV Obra-A(UP)-Herzapur(UP) (Ct-2
16	GD-1	Uttarakhand	14-5ep-2023 17:19	14-5ep-2023 18:08	00:49	108	0	0.200	0.000	53939	67824	I) During antecedent condition, 324W Unit-1,2 and 3 at Singlel Blatterin HEP were generating approx. 36MW each respectively, II) Air reported, at 222 hs., 220 NS Singlel Blatterin Singlel (TUPP) Single(TUP) (PCU) (12:15.2 tripped on Y=6 N double phase to ground fault with fault distance of 70.81km iii) The power generated by 33MW Unit-1,2 and 3 at Singlel Blatterin HEP were generating through 20 NS Singlel Blatterin (indi iii) The power generated by 33MW Unit-1,2 and 3 at Singlel Blatterin (FUU) (12:15.2 tripped on Y=6 N double phase to ground fault with fault distance of 70.81km iii) The power generated by 33MW Unit-1,2 and 3 at Singlel Blatterin (FUU) (12:15.2 tripped fault brows) (12:10)	1 220 KV Singol Bhatwari (Singoli[LTUHP])-Srinagar(UK) (PTCUL) Ck+1 2) 220 KV Singol Bhatwari (Singoli[LTUHP])-Srinagar(UK) (PTCUL) Ck+2 3) 304W Uhit-3 (and Singoli Bhatwari HEP 5) 334W Uhit-3 at Singoli Bhatwari HEP 5) 334W Uhit-3 at Singoli Bhatwari HEP

									Det	ails of Grid Ev	ents during t	he Month of September 2023 in Northern Region	💓 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence	Time and Date of Restoration	Duration	Loss of generation the Ga	i / loss of load during rid Event	% Loss of generation Antecedent Genera Regional Grid durin	/ loss of load w.r.t tion/Load in the ng the Grid Event	Antecedent Genera Regional	tion/Load in the Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)		of Grid Event		(HE:MSI)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	n Antecedent Load (MW)		
17	Gi-1	Jammu & Kashmir	14-Sep-2023 14:58	14-5ep-2023 16:27	01:29	0	145	0.000	0.198	60432	73270	1) 220/132W Zankote S/s have two bus at 220W side i.e., main bus & reserve bus. (i) 220/132W Zankote S/s have two bus at 220W side i.e., main bus & reserve bus. (ii) During antecedent condition, 220W Zankote was operating in bus split mode via. 220W Anargan/(NDIGRD)-Zankote(JR) D/C (carrying 126MW each) was feeding Zankote load. 220W Wagoors-Zankote(JR) C4 2 (carrying 84MW) was connected at other bus and feeding Alusting. 220W Wagoors-Zankote(JR) D/C (carrying 126MW each) was feeding Zankote load. 220W Wagoors-Zankote(JR) C4 2 (carrying 94MW) was connected at other bus and feeding Alusting. 220W Wagoors-Zankote(JR) D/C (carrying 126MW each) was feeding Zankote load. 31A reported, at 1548 hs, 220 V Amage/INDIGRD/2 analogic JPOD (C12 C1 2 Varged from Zankote) (cd only on 8-N phase to earth fault with fault current of 1.043A. Yok Jper FMU at Anargafri(D), B-N phase to earth fault is observed with delayed fault clearing time of 1200ms. V) Aper SCADA, change in demand of approx. 16MW is observed in JAK control area.	1) 220 KV Amargarh (INDIGRID)-Ziankole(JK) (P00 JK) Ckt-2
18	GD-1	Uttarakhand	16-Sep-2023 18:45	16-5ep-2023 19:52	01:07	140	0	0.289	0.000	48425	61120	I) During antexedent condition, 70 MW Unic 2.8.4 at Dhavligang/(NI) and 220 KV Jauljivi (PG)-Dhavligang/(NI) (PG) Cht 2 were connected to 220W Buc-2 at Dhavligang/(NI) and conty 70 MW Unic 2.8.4 at Dhavligang/(NI) (PG) Cht 2 were connected to 220W Buc-2 at Dhavligang/(NI) (PG) Cht 2 were connected to 220W Buc-2 at Dhavligang/(NI) (PG) Cht 2 were connected to 220W Buc-2 at Dhavligang/(NI) (PG) (Cht 2 were connected to 220W Buc-2 at Dhavligang/(NI) (PG) (Cht 2 were connected to 220W Buc-2 at Dhavligang/(NI) (PG) (PG) (PG) (PG) (PG) (PG) (PG) (PG	1) 220 KV Jauljivi (PG)-Dhauligange(NH) (PG) Ckt-2 2) 70 MW Umt-2 at Chauligange(NH) 3) 70 MW Umt-4 at Chauligange(NH)
19	GD-1	Uttarakhand	16-5ep-2023 21:00	20 Sep 2023 23:06	02:06	68	0	0.140	0.000	48641	64129	() () During antecedent condition, 70 MV Unit- 2.8.4 at Disaulgang(NH) and 220 KV Jau(Jiv (PG) Disaulgang(NH) (PG) CN-2 were connected to 220KV Bas-2 at Disaulgang(NH) and coly 70 MV Unit- 5.4. Disaulgang(NH) was invining and generating approx. SBMW and total MW generation of GBMW was excausing through 220 KV Jau(Jiv PG) Disaulgang(NH) () Ar protot, at 220 Mrs, but as protection operated at 220W bits-2 at Disaulgang(NH) (CS) CN-2 were connected to 220KV Bas-2 at Disaulgang(NH) () Ar protot, at 220 Mrs, but as protection operated at 220W bits-2 at Disaulgang(NH) (CS) CN-2 were connected to 220KV Bas) (PG) Chaulgang(NH) () Ar protot, at 220 Mrs, but as protection operated at 220W bits-2 at Disaulgang(NH) (CS) CN-2 were connected to 220KV Bas) (PG) CN-2 at Disaulgang(NH) (PG) CN-2 report. () Approx 20KV Bas) (PG) (NH) basic to ground fault is observed in the system with fault clearance time of 120ms. () A per SCAD, generation loss of approx. GRWN observed at Haulgang(NH) () 20 KV Jau(V) (PG) Disaulgang(NH) (PG) (CK-1 revised at 23:06 hrs on 20th September, 2023.	1) 220 KV Jauljivi (PG)-Ohaulganga(NH) (PG) Cst-2 2) 70 MV Unit-4 at Dhaulganga(NH)
20	GI-1	Jammu & Kashmir	16-5ep-2023 17:36	16-Sep-2023 22:16	04:40	0	250	0.000	0.437	47735	57150	() 22()/132V Zantote S/h have two bus at 230V vide Le., main bus & reserve bus. (i) During intercedent condition, 220W Zankote was operating in bus split mode viz. 230V Amargan(hNDGRD)–Zankote(JI) O/C (arrying 117MV each) was freeding Zankote load. (ii) During intercedent condition, 230W Zankote was operating in bus split mode at other bus and leading Auxtemg. 230V Wagoors Zankote(JI) C/C (arrying 117MV each) was freeding Zankote load. (iii) Arr input: device at 723 km, 720 V Amargan(hIDGRDV)–Zankote(JI) (PO XI (CL: 1 tripped on Y & phase to phase flault with fault current of hy="3.724A and fib="3.402A and fault chastere of 173Mm from Amargane flault (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) and phase to phase flault with fault current of hy="3.723AA and fib="3.401AA and fault data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault vert to be shared) data chastere of 173Mm from Amargane hond. (Last ressort of fault carring fine of 120ms. vi) As per 5XLA shared of approx. 250MW is observed in J&K control area.	1) 220 KV Amargarh(NDGRD)-Zankote(#) (PDD .K) CH-1 2) 220 KV Amargarh(NDGRD)-Zankote(#) (PDD .K) CH-2
21	GD-1	Rajasthan	17-5ep-2023 10-34	17-5ep-2023 13:32	02:58	205	0	0.448	0.000	45770	49801	 During antecedent condition, 400/33 kV 330 MVA.ICT 1 at AVANAS SL_BON_PG (ARP)FIV was carrying total MW generation of Ayana Solar which was approx. 205MV. A reported, at 10.34hrs, 400/33 kV 330 MVA.ICT 1 at AVANAS SL_BON_PG (ARP:FIV) trigged on over current protection operation due to flashover on LV-02 isolator clamps and IPS bale connector. B A per connector. B A per SCADA, generation loss of approx. 205MV is observed at Ayana Solar. 	1) 400/33 kV 330 MVA KT 1 at AYANAI SL_BKN_PG (ARP1PL)
22	GD-1	Rajasthan	17-5ep-2023 00:51	17-5ep-2023 02:01	01:10	110	0	0.251	0.000	43865	60246	() 220/112XV Dasca(RS) has double main and transfer bus scheme at both 220KV and 132XV level. (i) A reported, at 00:31hn, R and Y phase CF biast occured at Lalote end of 220 KV Lalot(RS)-Dasca[RS] (PG) Cst. (ii) A the same time, bus bar protection operated at Dasca[RS] and all the elements connected to both 220KV Bus 1 and 2 at Dasca[RS] tripped. (Exact reason of bus bar protection operation at Dasca[RS] visit to be hared of the same time of the same time of the same time, bus of parts at Dasca[RS] tripped. (Exact reason of bus bar protection operation at Dasca[RS] visit to be hared of the same time of 220 KV Bus 1 and 2 at Dasca[RS] tripped. (Exact reason of bus bar protection operation at Dasca[RS], N at Past to at Dasca[RS] with a same time of 220ms followed by Y-N phase to earth fault with fault clearance time of 120ms are observed. v) Aper SCADA, change in demand of approx. 110MVIs observed in Rigisthan control area.	1) 220 KV Lakot(KS-Dausa(KS) (KG) CK 2) 220 KV Bass(KG-Dausa(KS) (KG) CK + 2) 220 KV Bass(KG-Dausa(KS) (KG) CK + 2) 220 KV Savaimudhopur(KS-Dausa(KS) (KG) (KG) CK
23	GD-1	Uttar Pradesh	18-5ep-2023 13:53	185ep 2023 1423	00:30	O	325	0.000	0.572	49556	56847	() During entreaction condition, 600/220 IV 3155 M/A ICT-3 at Oban 8(UP), 3200V Oban A(UP) Alexes Board(UP) (CL+ 8.E.2 and 3200V Oban A(UP) Alexes provide a service of entabling information of the service of entabling information e	11 400/220 FV 315 MVA (CT 2 et Olire 9(UP) 21 400/220 FV 240 MVA (CT 3 et Olire 9(UP) 31 200 MW Obra TPS - UNIT 12
24	GD-1	Rajasthan	21-5ep-2023 21:14	21-Sep-2023 23:32	02:18	o	190	0.000	0.315	43865	60246	() 220/132V Khushkeraj(K) has double main bus scheme at both 220W and 132V level. () a reported, at 00.51m, 'r phase CT bias accured at Rhushkeraj(K) end of 220 V Khushkeraj(K)-Keemranaj(FG) (24. () a reported, at 00.51m, 'r phase CT bias accured at Rhushkeraj(K) end of 220 V khushkeraj(K)-Keemranaj(FG) (24. () and comparison of the state of the stat	1122017/ Dhushkera(BS-Neterrani(PC)) (ht 1220217/ Dhushkera(BS-Neterrani(PC)) (ht 3120217/ Dhushkera(BS-Neterrani(PS)) (ht 3120217/ Dhushkera(BS-Schangern & Bus(BS) (ht 5120217) 2021 (ht DhushKera(BS)) (ht 512021323/L160 MVA ICT-1 at Khushkera(BS) 6120/1323/L160 MVA ICT-2 at Khushkera(BS)
25	GI-1	Delhi	22.5ep-2023 13-38	22-Sep-2023 13:44	00:06	o	125	0.000	0.188	57561	66602	1) 220kV side of 400/220kV MandaulapCb) has double main & transfer bus scheme and 220/64kV Marela has double main bus scheme. (i) 220kV side of 400/220kV MandaulapCb) has double main & transfer bus scheme and 220/64kV Marela has double main bus scheme. (ii) During intercedent condition, 220 kV MandaulapCb) Attracta(DV) (D11) Ck2 + use at ready under planned shutdown, and load of 220kV Marela S/s was connected through 220 kV (i) An reported, sti 133 hn, 220 kV MandaulapCb) Attracta(DV) (D11) Ck2 + use at ready under planned shutdown, and load of 220kV Marela S/s was connected through 220 kV (i) An reported, sti 133 hn, 220 kV MandaulapCb) Attracta(DV) (D11) Ck2 + used on 8-N phase to ground fault with fault current of 8.89AA and fault distance of 13.21km from MandaulapCe) (active to be hared) (ii) Ap or FXUA Attractacion of fault with a observed with deleyed fault clearing time of 150ms. (i) A reported, had of 220kV Marela S/s was restored at 13-24 hrs through 220kV DSICC Bawana-Marela Act-182.	1) 220 KV Mandaolo(PG)-Narelo(DV) [DTL) Ckt-1

								Details of Grid Even			ents during	the Month of September 2023 in Northern Region	🕡 गिड-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 generation the Gr	a / loss of load during rid Event	% Loss of generation Antecedent Genera Regional Grid durin	h / loss of load w.r.t ation/Load in the ng the Grid Event	Antecedent Genera Regional	tion/Load in the Grid®	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI for 2/ GD-1 to GD-5)					Constantion Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	(MW)	(MW)		
26	GI-1	Haryana	23-Sep-2023 10:45	23-Sep-2023 12:11	01:26	o	o	0.000	0.000	55363	58056	1 Ouring antecedent condition. 23 of V Anight TH(H)(V) Anight B(B) (HVPH), L1 × 2, 3, 2 4 were currying approx. 28MW each. If a reported by BBMA, at 15x3ars, 220 V Anight TH(H)(V) Anight B(B) (HVPH), L1 × 1, 3, 2 4 were currying approx. 28MW each. If a reported by BBMA, at 15x3ars, 220 V Anight TH(H) Anight B(B) (HVPH), L1 × 1, 3, 2 4 were currying approx. 28MW each. If a reported by BBMA at 15x3ars, 220 V Anight TH(H) Anight B(B) (HVPH), L1 × 1, 3, 2 4 were currying approx. 28MW each. If a reported by BBMA at 15x3ars, 220 V Anight TH(H) Anight B(B) (HVPH), L1 × 1, 2 4 and at clearing time was "55ms, [Sicat reason of fault yet to be end and the second bar of the second bar one -1 at Panepat(BB) (HVPH), Anight B(B) (HVPH), L1 × 1, 2 4 and to clearing time was "55ms, [Sicat reason of fault yet to be end and the second bar of the second bar one -2 v/2 A fault to the second bar of t	1 220 KV PanipatTH(HV)-Panipat[88) (HVPNL) Ck-1 2 220 KV PanipatTH(HV)-Panipat[88) (HVPNL) Ck-2 3 220 KV PanipatTH(HV)-Panipat[88) (HVPNL) Ck-3 4 220 KV PanipatTH(HV)-Panipat[88) (HVPNL) Ck-4
27	GI-2	Haryana	24-Sep-2023 00:21	24-Sep-2023 02:44	02:23	0	O	0.000	0.000	46977	58783	I) During antecedent condition, 800 IV WIDC Kurukahetra/PG/ Pole-1, 2, 3 & 4 were carrying 725 MW, 721 MW, 470 MW and 477 MW respectively from Champa to Kurukahetra. Total power order was approx. 2500MW. II) Are power total, 400 221m, 500 V WIDC Kurukahetra/PG/ Pole-01 blocked due to false latching of External Block in Lane-1 Main-1. B Main-2. III) Are parelle mice and DV WIDC Kurukahetra/PG/ Pole-03 also blocked due to false latching of External Block in Lane-1 Main-1. B Main-2. III) Are parelle mice and DV WIDC Kurukahetra/PG/ Pole-03 also blocked due to protective pole isolation falure in Pole-1 and CA1-4 miniation at Champa end. IV) As reported, Pole 1 Lane 1 was put into maintenance to avoid further tripping due to external block until dentification of root cause for latching of protection. v) Apper YOM LatchinsterPG/IO notal to berefer the typing full cutation in voltage is observed. v) As per SOLON, no load ios is observed in Haryans control area.	1) 800 KV HVOC Kurukshetral(PG) Pole-01 2) 800 KV HVOC Kurukshetral(PG) Pole-03
28	GD-1	Delhi	25-Sep-2023 13:27	25-Sep-2023 13:30	00:03	52	275	0.099	0.464	52696	59229	During entecedent condition, 220 kV Preet Vitas-Hanh Vitar (DTI) (DL3, & 3 were feeding the load of 220kV Poer rigar. Perk Straetigant load, L9. Sin & Ralighat 55 through 220kV Nach Vitar-Preet Vitan-Preet Vitar-Preet Vitar-Preet Vitar (DL3) (D	1 220 kV Preet Vihar-Harsh Vihar (011,) Ck1-1 2 220 kV Preet Vihar-Harsh Vihar (011, Ck1-2 2 220 kV Preet Vihar-Happing) (011) Ck1-1 4 220 kV Preet Vihar-Happing) (011) Ck1-1 5 2020H2W 100M (K1-2 at Preet Vihar(D1) 6 2020H2W 100M (K1-2 at Preet Vihar(D1) 7) STG at Propei(01)
29	GD-1	Uttar Pradesh	27.5ep-2023.20.09	27.5ep-2023 20.51	00:42	O	300	0.000	0.439	52451	68272	1.220X V.Mihabad RewaradUP) but double main but scheme and both the butes are connected through but coupler. 11 During antecedent condition, 220X VDra AUP)-Mitapar CEI was under shortdown to avoid overbading of 400/220X VEI at Dara BUP) and 220X VMrapur Sfs was radially feed 10 During antecedent condition, 220X VDra AUP)-Mitapar CEI was under shortdown to avoid overbading of 400/220X VEI at Dara BUP) and 220X VMrapur Sfs was radially feed 10 During antecedent condition, 220X VDra AUP)-Mitapar CEI was under shortdown to avoid overbading of 400/220X VEI at Dara BUP). As a standby arrangement, 220X VMIhabad Rewarad (UP)-Otra A(UP) CEI 1 (pow 220X VMIhabad Rewarad (UP)-Mitrapur CEI as a standby arrangement tytiged on R 4 phase to anth full with fault distance of 21.47km from Alababad RewaradUP) fault sensed in zone-1. N Aler cehance inter with fold to energies 31.200 M N. During darging, agai R N Alababad RewaradUP) (Potr -A(UP) CH-1, LBB protection operated by SLO-UP. R share jumper was found bracken at location no. 457. 9 Us due to dely more points of CEI Alababad RewaradUP) found of 220X VMIhababad RewaradUP) Obtr -A(UP) Chr-1, LBB protection operated at 220X VAIbababad RewaradQIP). 9 Us due to dely more points of CEI Alababad RewaradUP and elements connected to both the buses tripped resulting in complete blackout of 220/322/33XV Alababad RewaradQIP). 9 Us due to dely more points of CEI Alababad RewaradUP and elements connected to both the buses tripped resulting in complete blackout of 220/322/33XV Alababad will base to dely a less field from 132V Mathabad, 132V Kareli, 132V Kareli, 132V Kareli, 132V Kareli, 132V Kareli, 132V Kareli, 132V Maja and 3120V Meja raad was affected. 220K Alababad Cantt were getting supply from 10 (A) A per SNU. A Mahabad RewaradUP). 10 (A) A per SNU. A shahabad RewaradUP) for the Out of the ana. 10 A reported by SLD-UP, load loss of approx. 300MV is observed in UP control area.	1) 220kV Allahabad Rewaroad (UP)-Ohra-A(UP) CN-1 2) 220kV Allahabad Rewaroad (UP)-Allahabad-000(UP) Ck-1 3) 220kV Allahabad Rewaroad (UP)-Allahabad-000(UP) Ck-2 5) 220kV Allahabad Rewaroad (UP)-Allahabad (PG) Ck-1 5) 220kV Allahabad Rewaroad (UP)-Allahabad Cart Ck-1 2) 220kV Allahabad Rewaroad (UP)-Allahabad Cart Ck-1 7) 220kV Allahabad Rewaroad (UP)-Allahabad Cart Ck-1 7) 220kV Allahabad Rewaroad (UP)-Allahabad Cart Ck-1 2) 220kV Allahabad Rewaroad (UP)-Allahabad Cart Ck-1 2) 220kV Allahabad Rewaroad (UP)-Allahabad Cart Ck-1 2) 220kV Allahabad Rewaroad (UP)-Allahabad Rewaroad(UP) 10) 220/1232 V 200MVA (CT-2 at Allahabad Rewaroad(UP) 11) 220/132 kV 200MVA (CT-3 at Allahabad Rewaroad(UP)
30	GD-1	Uttar Pradesh	27.5ep-2023 20.25	27.5ep -3023 21.05	00:40	O	570	0.000	0.840	52341	67842	I) During antecedent condition, 220/1321V Allahabad Cantt(UP) & 220/1321V Strathu(UP) 5/s were getting supplies from 220/1321V Stathpur(UP) in radial mode. II) As reported, at 20.25 km, 220 kV Tathpur(PG)-Fathpur(UP) (PG) (Ck-1 tripped on B-N phase to earth fault from 5 athpur(UP) and a sub-rectosed successfully from 5 athpur(PG)-Fathpur(UP) (PG) (Ck-1 tripped on B-N phase to earth fault from 5 athpur(UP) and a sub-rectosed successfully from 5 athpur(PG) and. III) Whith the Topoget of 20 for the topoleur(PG)-Fathpur(UP) (PG) (Ck-1 subtine results in time and the finalty topod from 5 abhpur(PG) and. IIII Whith the Topoget of 20 for the topoleur(PG)-Fathpur(UP) (PG) (Ck-1 subtine results in time and the finalty topod from 5 abhpur(PG) and. IIIII Whith the Topoget of 20 for the topoleur(PG)-Fathpur(UP) (PG) (Ck-1 subtine results in time and the finalty topod from 5 abhpur(PG) and. IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1) 220 KV Fatehpur(PG) Fatehpur(UP) (PG) CK-1 2) 20012242 2000MA (CT-4) fatehpur(UP) 2) 20012242 2000KA (CT-4) fatehpur(UP) 4) 2004 Y Fatehpur(UP) - Stathu(UP) CK 5) 200KV Fatehpur(UP) - Alababad Cant(UP) CK
31	GI-2	Uttar Pradesh	27.5ep-2023 12:53	27.5ep-2023 14:02	01:09	285	O	0.512	0.000	55632	65423	I) During antecedent condition, 400/220 KV 315 MVA ICT-1 at Obtr-BUIP) was not in service. 400KV Obtr-BUIP) Suitapur(LIP) OL, 400/220 KV 240 MVA ICT-3 at Obtr-BUIP), 200 MV Obtr 178 - UNIT 11 and 31 were connected to 400KV 9ta-1 at Obtr-BUIP) was not in service. 400KV Obtr-BUIPS Suitapur(LIP) OL, 400/220 KV 240 MVA ICT-3 at Obtr-BUIP), 200 MV Obtr 178 - UNIT 11 and 31 were connected to 400KV 9ta-1 at Obtr-BUIP) was not in service. 400KV 9ta-2 at Obtr-BUIP), 200 MV Obtr 375 - UNIT 11 and 31 were generating appox. 255MV 10ta-140P; Robertganj(UP) CK tripped on 1-9 phase to phase fault with fault distance of 1.4km from Obtr-AUIP) edu; fault semeed in zone-1. [Exart resource to the shared] iii) At the particular 20210 XV 240 MVA ICT-3 at Obtr-BUIP) signed on ore-current eath-fault protection operation and bus bar protection of 400kV Bus-1 also operated. (Reason of ICT trippig and bus protection operation with to the shared pV UP) iv) As per tWA ut Allinhabd[PG]. V 9 phase to phase fault with fault clearance time of B0ms is observed. v) A seported by 2020-R0 coalagin demains is observed in UP. Corrotal area. v) As pers' 450 ALZO-R0 no change in demains is observed in to Corrotal area.	1) 220kV Obra-A(UP)-Robertgan)(UP) Ckt 2) 40/220 (V 240 MVA (CT -3 ct Obra-B(UP) 3) 400kV Obra-B(UP) Sultampur(UP) Ckt 4) 200 MW Obra-B(UP) - UNIT 11 5) 200 MW Obra TPS - UNIT 13
32	GI-2	Uttarakhand	28-5ep-2023 15:45	28-Sep-2023 16:26	00:41	ō	0	0.000	0.000	56005	64265	I) 765/400kV Koteshwar(PG) has double main bus scheme at 400kV level. During antecedent condition, 765/400kV 800MVA KCT-2 at Koteshwar(PG), 400kV Koteshwar(PG)-Tehr(TH) (PG) (61:18:2 and 400kV Koteshwar(PG)-Koteshwar(PG) and the shadown. Only 100kW link 44 Koteshwar(PG). A for sits of the elements were connected to 400kV linu 4: (Rethwar(PG). 765/400kW 800kV ACT-1 & Koteshwar(PG) was used shadown. Only 100kW link 44 Koteshwar(PG). A for sits of the elements were connected to 400kV linu 4: (Rethwar(PG). A for Sits of the elements and the shadown. Only 100kW link 44 Koteshwar(PG) and costs of the CD adjustment. However, at the same time bus bar protection of 400kV linu 2 querta in this resulted into through of all the elements connected to 400 and usu 2 beam edeal (Exat reasion of bus bar protection operation yet to be shared) ii) As per 7MU at 400kV Koteshwar(PG), B-h phase to ground fault as observed in the system with fault clearance time of 80ms.	1] 400KV Bus-2 at Koteshwar (PG) 2) 755/400kV 800MVA (CT-2 at Koteshwar(PG) 3) 400KV Koteshwar(PG)-Terk (TI) (PG) CK-1 4) 400KV Koteshwar(PG)-FK0FU (TI) (PG) CK-3 5) 400KV Koteshwar(PG)-Koteshwar (TIH) (PG) CK-2

						De	etails of (Grid Even	ts durin;	g the Month o	of Septe	mber 2023 in Western Region	गिड-इंडिया GRID-INDIA
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 gener load during t	ration / loss of the Grid Event	% Loss of ger of load w.r.t Generation/ Regional Gri Grid	neration / loss Antecedent Load in the d during the Event	Antecedent Generat the Regional	ion/Load in Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)			1		Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW		
1	GI-2	WR	02-Sep-23 17:18	02-Sep-23 20:30	3:12	-	-	-	-	77937	68275	At 17:15 Hrs/ 02-09-2023, 400 kV Bhilai-Bus-2 tripped on LBB operation of Main breaker of 400 kV Raita-Bhilai-1 due to R-phase stuck during auto recloser. 400 kV Bhilai-Kirnapur-1 and 400 kV Bhilai-Marwa-1 tripped on Over Voltage Stage-II protection operation. 400 kV Bhilai-Korba West Extension-1 tripped due to faulty LBB cable connection in Main and Tie bays. No load loss was occurred during the above event.	Tripping of follwing elements- 1. 400 kV Raita-Bhilai-1 2. 400 kV Bhilai-Kirnapur-1 3. 400 kV Bhilai-Marwa-1 4. 400 kV Bhilai-Korba West Extension-1
2	GD-1	WR	06-Sep-23 11:33	06-Sep-23 12:52	1:19	2.5	186	0.000	0.003	71024	66711	At 11:33 hrs/ 06-09-2023, B-phase tension disc insulator string of 220 kV Rajgarh-Rajgarh(MP)-1 failed and gantry to gantry conductor of bay fell on 220 kV Rajgarh(MP)-Bus-1 creating Y-B-E phase to phase to Ground fault in Bus-1. Bus bar protection didn't operate. 220 kV Rajgarh(MP)- Khiledi-1 and 220 kV Rajgarh(MP)-Rajgarh(QP)-2 tripped from remote ends on zone-4 protection operation. 220/132 kV Rajgarh(MP)-ICT-1,283 were hand tripped resulting in blackout at 220 kV Rajgarh(MP). Generation loss of 2.5 MW at Ambethi and Load loss of 186 MW occurred due to the event.	Tripping of follwing elements- 1. 220 kV Rajgarh(MP)-Rajgarh(PG)-1 2. 220 kV Rajgarh(MP)-Rajgarh(PG)-2 3. 220 kV Rajgarh(MP)-Khiledi-1 4. 220 kV Rajgarh-Bus-1 5. 220 kV Rajgarh-Bus-2
3	GI-2	WR	13-Sep-23 13:17	13-Sep-23 14:50	1:33	-	-	-	-	69776	61240	At 13:17 hrs/ 13-09-2023, Spare ICT bus isolator came in induction zone resulting in Bus fault in 400 kV Akola-Bus-2. 400 kV Akola-1, 400 kV Akola-Aurangabad-1&2 tripped from Akola end only. 400 kV Akola-Wardha-2 tripped and 400/220 kV Akola-ICT-1&2 also tripped. No load loss occurred during the event,	Tripping of follwing elements- 1. 400 kV Akola-Bus-2 2. 400 kV Akola-Wardha-1&2 3. 400 kV Akola-Aurangabad-1&2 4. 400/220 kV Akola-ICT-1&2
4	GI-2	WR	15-Sep-23 04:49	15-Sep-23 06;43	1:54	475	-	0.007	-	68884	56060	At 04:49 hrs/ 15-09-2023,Korba Unit-7 (500 MW) tripped due fault in AVR, due to non opening of B-phase breaker, LBB operated on pole discrepancy resulting in tripping of 400 kV Korba(NTPC)-Bus-3 and connected elements tripped at NTPC Korba. Generation loss of 475 MW due to tripping of Korba Unit-7 (500 MW) occurred at Korba (NTPC) thermal power plant due to the event.	Tripping of follwing elements- 1. 400 kV Korba(NTPC)-Bus-3 2. 400 kV Korba-Birsinghpur-2 3. 400 kV Korba-Raipur-4 4. Korba Unit-7 (500 MW)
5	GD-1	WR	17-Sep-23 12:13	17-Sep-23 22:11	9:58	65	-	0.001	-	61557	53312	At 12:13 hrs/ 17-09-2023, 220 kV Bhuj-Kotda Madh-1 tripped on B-E fault due to nuisance done by unknown person at tower location-7. Generation loss of 65 MW occurred at Kotda Madh (Alfanar) wind power plant due to loss of evacuation path.	Tripping of follwing elements- 1. 220 kV Bhuj-Kotda Madh-1
6	GD-1	WR	17-Sep-23 20:55	18-Sep-23 03:54	6:59	44.43	-	0.001	-	64409	52973	At 12:13 hrs/ 17-09-2023, 220 kV Bhuj-Vadva-1 tripped on R-E fault due to suspension disc insulator failure at tower location at 208. Generation loss of 44.43 MW occurred at Vadva (GIWEL-II) wind power plant due to loss of evacuation path.	Tripping of follwing elements- 1. 220 kV Bhuj-Vadva-1
7	GI-2	WR	18-Sep-23 03:25	18-Sep-23 04:31	1:06	-	-		-	61095	48989	At 03:25 hrs/ 18-09-2023, during charging of 400 kV Karad-Kolhapur(MH)-2 while closing of line side isolator heavy sparking was observed in Y-phase line side isolator. It was decided to opening bus side isolator (Bus-2), while opening of Bus side isolator heavy sparking occured at bus isolator and 400 kV Kolhapur(MH)-Bus-2 and connected elements tripped on Bus bar protection operation . No load loss occurred during the event.	Tripping of follwing elements- 1. 400 kV Kolhapur(MH)-Bus-2 2. 400 kV Kolhapur(MH)-Kolhapur(PG)-1&2 3. 400 kV Kolhapur(MH)-Solapur(PG)-2 4. 400/220 kV Kolhapur(MH)-ICT-1&2
8	GD-1	WR	19-Sep-23 22:40	20-Sep-23 23:48	1:08	136	-	0.002	-	69180	54263	At 22:40 hrs/ 19-09-2023, 220 kV Bhuj-Gadhsisa-1 tripped on R-E fault. During patrolling stay wire was found broken and Y-phase insulator was faulty at tower location 48. Generation loss of 136 MW occurred at Gadhsisa (Renew Power) wind power plant due to loss of evacuation path.	Tripping of follwing elements- 1. 220 kV Bhuj-Gadhsisa-1

						D	etails of (Grid Ever	nts during	g the Month	of Septe	mber 2023 in Western Region	जिड-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	ration / loss of the Grid Event	% Loss of gen of load w.r.t Generation Regional Grid	neration / loss Antecedent Load in the id during the Event	Antecedent General the Regional	tion/Load in Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 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	WR	20-Sep-23 01:15	20-Sep-23 07:51	6:36	245	-	0.004	-	68037	52451	At 01:15 hrs/20-09-2023, 220 kV Bhuj-Naranpar-1 tripped on R-E fault due to broken R phase jumper fell over LV side of 220/33 kV Naranpar-ICT-2. Generation loss of 245 MW occurred at Naranpar (GIWEL) wind power plant due to loss of evacuation path.	Tripping of follwing elements- 1. 220 kV Bhuj-Naranpar-1 2. 220/33 kV Naranpar-ICT-2
10	GI-2	WR	23-Sep-23 03:12	23-Sep-23 12:11	8:59	1734	-	0.027	-	63268	51182	At 03:12 hrs/ 23-09-2023, 400 kV Wardha-Mouda-2 tripped on R-B phase to phase fault due to lightning strike which resulted in tripping of Mouda-Unit-1 (500 MW) and Mouda-Unit-3&4 (660 MW). Generation loss of 1734 MW occurred at Mouda (NTPC) thermal power plant due to units tripping.	Tripping of follwing elements- 1. 400 kV Wardha-Mouda-2 2. Mouda-Unit-1 (500 MW) 3. Mouda-Unit-3&4 (660 MW)
11	GI-2	WR	24-Sep-23 18:46	24-Sep-23 20:26	1:40	-	-	-	-	65880	56441	At 18:46 hrs/ 24-09-2023, 400 kV Bhopal-Itarsi-MP-2 tripped on Y-B phase to phase fault, due to delayed opening of bay 400 kV Bhopal-MP-Bus-2 tripped on LBB protection operation. No load loss occurred due to the above event	Tripping of follwing elements- 1. 400 kV Bhopal-MP-Bus-2 2. 400 kV Bhopal-MP-Itarsi-MP-2 3. 400 kV Bhopal-MP-BR-2
12	GD-1	WR	25-Sep-23 05:29	25-Sep-23 15:57	10:28	37	-	0.001	-	61324	51933	At 05:29 hrs/ 25-09-2023, 220 kV Nakhatrana-Dedhiya-1 tripped on Y-E fault due to Tension insulator failure. Generation loss of 37 MW occurred at Dedhiya (AWEK4L) wind power plant due to loss of evacuation path.	Tripping of follwing elements- 1. 220 kV Nakhatrana-Dedhiya-1
13	GD-1	WR	26-Sep-23 17:46	26-Sep-23 18:01	0:15	-	360	-	0.006	68055	58469	At 17:39 hrs/ 26-09-2023, 400/220 kV Magarwada(PG)-ICT-1 tripped due to mal operation of master trip relays due to DC earth fault. 400/220 kV Magarwada(PG)-ICT-2 was under planned shutdown prior to the tripping of 400/220 kV Magarwada(PG)-ICT-1 which caused loss of supply to 220 kV Magarwada(PG). Due to this, 220 kV Magarwada(DD) and 220 kV Ringanwada was fed through 220 kV Vapi(PG)-Magarwada(DD)-D/C. At 17:46 hrs, 220 kV Vapi(PG)-Magarwada(DD)-1 tripped on R-phase to earth fault due to conductor snapping between tower location 60 and 61. 220 kV Vapi(PG)-Magarwada(DD)-2 got overloaded and tripped at 17:46 hrs. Due to this supply got interrupted at 220kV Magarwada(PG) and Ringanwada, 220 kV Magarwada(PG)-Magarwada(DD)-D/C and 220 kV Magarwada(PG)-Ringanwada-D/C were hand tripped. Load loss of 360 MW occurred at Magarwada(DD) and Ringanwada due to the event.	Tripping of follwing elements- 1. 400/220 kV Magarwada(PG)-ICT-1 2. 220 kV Vapi(PG)-Magarwada-1&2

							!	Details of G	rid Event	s during the N	Aonth of	September 2023 in Southern Region	👔 ग्रिड-इंडिया GRID-INDIA
Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	Loss of generatio during the (on / loss of load Grid Event	% Loss of gener load w.r.t A Generation/I Regional Grid d Eve	ration / loss of ntecedent Load in the uring the Grid nt	Antecedent Generatio Regional G	on/Load in the Grid	Brief details of the event (pre fault and post fault system conditions)	Name of Elements (Tripped/Manually opened)
	(GI lor 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	Andhra Pradesh	01-Sep-23 12:45	01-Sep-23 14:45	2hrs	0	558	0.00%	0.92%	54843	60389	Complete Outage of 220kV/110kV Pydibhimavaram SS, 220kV/132kV Garividi SS, 220kV/132kV Tekkali SS and 220kV/132kV Bobbili SS and Tripping of 220kV Bus-1 and Bus-2 of 400kV/220kV Maradam SS: As per the reports submitted, the triggering incident was Y-N fault in 220kV Bus-2 of 400kV/220kV Maradam SS. Immediately, 220kV Bus-2 BBP operated and all the elements connected to the Bus-2 tripped. Consequently, 400kV/220kV Maradam ICT-1 which was feeding 220kV Maradam Bus-1 tripped on overloading. This resulted in complete outage of 220kV/110kV Pydibhimavaram SS, 220kV/132kV Garividi SS, 220kV/132kV Tekkali SS and 220kV/132kV Bobbili SS as these SS were being radially fed from 220kV Maradam Bus-1 & Bus-2.	1. 400kV/220kV Maradam ICT-1&2 2. 220kV Maradam Garividi Line-1 3. 220kV Maradam Bobbii Line-2 4. 220kV Maradam Pydibhimavaram Line-1
2	GD-1	Tamil Nadu	05-Sep-23 02:56	05-Sep-23 04:45	1hr 49mins	114	0	0.27%	0.00%	42895	37358	Complete Outage of 400kV/110kV Thappugundu SS of TANTRANSCO: During antecedent conditions, 400kV Palavadi Rasipalyam Line-4 and 400kV Anaikadavu Thappagundu Line-2 were under outage. As per the reports submitted, the triggering incident was RYB-N fault in 230kV Anaikadavu Othakalamandapam Line-1&2 and the lines tripped. Subsequently, over voltage p rotection operated in 400kV Anaikadavu Thappagundu Line-1 and 400kV Anaikadavu Rasipalayam Line-2 at Anaikadavu thappagundu Line-1 and 400kV Anaikadavu Rasipalayam Line-2 at Anaikadavu thapagundu Line-1 in esulted in loss of power supply to 400kV/110kV Thappugundu SS which led to complete outage of the SS.	1.400kV Anaikadavu Thappagundu Line-1 2.400kV Anaikadavu Rasipalayam Line-2 3.400kV Paiavil Rasipalayam Line-2 4.230kV Anaikadavu Othakalamandapam Line-1&2
3	GD-1	Tamil Nadu	08-Sep-23 11:03	08-Sep-23 11:12	9mins	191	0	0.36%	0.00%	52771	50085	Complete Outage of 230kV Sprng_Pugalur Wind Generating Station: As per the reports submitted, the triggering incident was RB fault in 400kV Karaikudi Pugalur Line-2. At the same time, the 230kV Pugalur Sprng_Pugalur line tripped only at the Sprng_Pugalur end on operation of the voltage surge relay. Tripping of the only connected line resulted in a complete outage of 230kV Sprng_Pugalur wind generating station.	1. 400KV Karaikudi Pugalur Line-2 2. 230KV Pugalur Sprng_Pugalur Line
4	GD-1	Karnataka	09-Sep-23 09:10	09-Sep-23 09:59	49mins	90	0	0.18%	0.00%	49834	49871	Complete Outage of 220kV Tirumani SS-1 of KSPDCL: As per the reports submitted, the triggeirng inicident was tripping of 220kV Pavagada Tiurumani Line-1 only at Tirumani end on relay maloperation. Tripping of only connected line resulted in complete outage of 220kV Tirumani SS-1.	1. 220kV Pavagada Tiurumani Line-1
5	GD-1	Tamil Nadu	13-Sep-23 18:06	13-Sep-23 19:03	57mins	1060	0	2.29%	0.00%	46388	46951	Complete Outage of 400kV CEPL Generating Station: During antecedent conditions, 400kV Tuticorin PS Coastal Line-1 was under outage. As per the reports submitted, the triggering incident was YB-N fault in 400kV Tuticorin PS Coastal Line-2 and the line tripped. Tripping of the only connected line resulted in a complete outage of the 400kV CEPL Generating station.	1. 400kV Tuticorin PS Coastal Line-2
6	GD-1	Tamil Nadu	19-Sep-23 00:12	19-Sep-23 02:18	2hrs 6mins	171	0	0.45%	0.00%	38400	42349	Complete Outage of 230kV OPG_CPP SS and Tripping of 230kV Bus-2 of 400kV/230kV Alamathy SS : During antecedent conditions, 230kV Alamathy OPG_CPP Line-1 was under LC. As per the reports submitted, the triggering incident was B-N fault in 230kV Bus-2 of 400kV/230kV Alamathy SS, BBP operated and all the elements connected to the Bus including 230kV Alamathy OPG_CPP Line-2 tripped. Tripping of the only connected line resulted in the complete outage of 230kV OPG_CPP SS.	1. 230kV Alamathy OPG_CPP Line-2 2. 230kV Alamathy Mosur 3. 230kV Alamathy Manail Line-2 4. 400kV/230kV Alamathy ICT-3
7	Gi-1	Karnataka	03-Sep-23 17:39	03-Sep-23 18:29	50mins	0	0	0.00%	0.00%	41461	41304	Tripping of 220kV Bus-1 of 400kV/220kV Munirabad SS of PGCIL SR-1: During antecedent conditions, at 400kV/220kV Munirabad SS, main circuit breaker of 220kV Munirabad lingapur line-2 was bypassed and the line was charged through Bus Coupler by connecting to 220kV Bus-1. The triggering incident was tripping of 220kV Munirabad Lingapur line-2 only at the Munirabad end due to distance protection overreach. Since this is the only line connected to Bus-1 at Munirabad, this resulted in the de-energization of 220kV Bus-1 of 400kV/220kV Munirabad SS.	1. 220KV Munirabad Lingapur line-2
8	GI-1	Karnataka	16-Sep-23 09:46	16-Sep-23 10:08	22mins	0	0	0.00%	0.00%	53349	56065	Tripping of 220kV Bus-1 of 400kV/220kV Munirabad SS of PGCIL SR-1: During antecedent conditions, at 400kV/220kV Munirabad SS, main circuit breaker of 220kV Munirabad Lingapur line-2 was bypassed and the line was charged through Bus Coupler by connecting to 220kV Bus-1. The triggering incident was tripping of 220kV Munirabad ingapur line-2 only at Munirabad end after the hand tripping 220kV Munirabad Lingapur line-1. Since this is the only line connected to Bus-1 at Munirabad, this resulted in the de-energization of 220kV Bus-1 of 400kV/220kV Munirabad SS.	1. 220kV Munirabad Lingapur line-2
9	GI-1	Karnataka	16-Sep-23 10:08	16-Sep-23 18:46	8hr 38mins	0	0	0.00%	0.00%	53300	55248	Tripping of 220kV Bus-1 of 400kV/220kV Munirabad SS of PGCIL SR-1: 400kV/220kV Munirabad SS, main circuit breaker of 220kV Munirabad Lingapur line-2 was bypassed and the line was charged through Bus Coupler by connecting to 220kV Bus-1. The triggering incident was tripping of 220kV Munirabad Lingapur line-2 only at Munirabad end on operation of Oc protection. Since this is the only line connected to Bus-1 at Munirabad, this resulted in the de- energization of 220kV Bus-1 of 400kV/220kV Munirabad SS.	1. 220kV Munirabad Lingapur line-2

							<u>]</u>	Details of G	rid Event	s during the N	Aonth of	September 2023 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	Loss of generation during the G	n / loss of load Grid Event	% Loss of gener load w.r.t A Generation/I Regional Grid du Eve	ration / loss of ntecedent Load in the uring the Grid nt	Antecedent Generati Regional G	on/Load in the Grid	Brief details of the event (pre fault and post fault system conditions) (Tripped/Manually opened)
	(GI lor 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	
10	GI-1	Karnataka	19-Sep-23 17:17	19-Sep-23 20:07	2hr 53mins	0	0	0.00%	0.00%	35850	40669	Tripping of 220kV Bus-1 of 400kV/220kV Munirabad SS of PGCIL SR-1: During antecedent conditions, at 400kV/220kV Munirabad SS, main circuit breaker of 220kV Munirabad Lingapur line-2 was bypassed and the line was charged through Bus Coupler by connecting to 220kV Bus-1. The triggering incident was tripping of 220kV Munirabad Lingapur line-2 only at the Munirabad end due to distance protection overreach. Since this is the only line connected to Bus-1 at Munirabad, this resulted in the de-energization of 220kV Bus-1 of 400kV/220kV Munirabad SS.
11	GI-1	Andhra Pradesh	27-Sep-23 15:51	27-Sep-23 18:51	3hrs	0	0	0.00%	0.00%	48354	53146	Tripping of 220kV Bus-2 of 400kV/220kV/132kV Jammalamadugu SS: As per the reports submitted, the triggering incident was R-N fault in 220kV Bus-2 of 400kV/220kV Jammalamadugu SS: Immediately, BBP operated and all the elements conneted to the Bus-2 tripped. At the same time, 400kV Talaricheruvu Jammalamadugu Ine-1 which is on the same dia of 400kV/220kV ICT-3 got tripped due to tripping of Tie CB(Main CB of the line was under outage during antecedent conditions.

						Details	of Grie	l Events	during tl	he Month of	Septeml	per 2023 in Eastern Region	ि ग्रिड-इंडिया GRID-INDIA
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 ge loss of load Grid	neration / during the Event	% Loss of ge of load w.r. Generation Regional Gr Grid	neration / loss t Antecedent /Load in the id during the Event	Antecedent Genera the Regiona	ation/Load in al Grid	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1 or 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	Tenughat, Govindpur, Dumka, Gooda, Jasidih, Giridih, Deoghar, Pakur, Rajmahal	08.09.2023 20:33	08.09.2023 20:57	00:34	140	437	0.43%	1.72%	32618	25440	At 20:30 Hrs, 220 kV Maithon-Dumka-1 tripped due to R_N fault leading to increased loading of 220 kV maithon-Dumka-2, which tripped at 20:33 Hrs due to R_N fault. After 12 seconds, 220 kV Tenughat-Biharsharif also tripped from Biharsharif. This led to islanding of entire Tenughat, Govindpur, Dumka, Godda, Deoghar complex with only one unit of Tenughat (140 MW generation) and 410 MW load, which didn't survive, and the island collapsed immediately.	220 kV Maithon-Dumka D/c 220 kV Biharsharif-Tenughat 210 MW U#2 at Tenughat

						De	etails of Grid	Events duri	ng the Month	of Septem	ber 2023 in N	orth Eastern Region	🚺 ग्रिड-इंडिया GRID-INDIA
	Category of Grid		Time and Date of		1	Loss of gener during t	ration / loss of load the Grid Exent	% Loss of genera Antecedent Ger	tion / loss of load w.r.t peration/Load in the	Antecedent Ge Reg	eneration/Load in the		
SI No.	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
1	GD 1	Golaghat area of Assam Power System	02-Sep-23 09-51	02-5ep-23 10:21	0:30:00	0	22	0.00%	0.83%	3075	2657	Golagita area of Assam Power System was connected with the rest of NEB grid through 132 kV Golaghat - Sarupathar line. 132 kV Mariani (AS)-Golaghat line was under planned shutdown prior to event. At 09:51 Hrs on 02.09.2023, 132 kV Golaghat - Sarupathar line tripped. Due to tripping of this element Golaghat area of Assam Power System got separated from the rest of NER Grid and collapsed due to no source available in this area. Power supply was extended to Golaghat area of Assam Power System by charging 132 kV Golaghat - Sarupathar line at 10:21 Hrs on 02.09.2023.	132 kV Golaghat - Sarupathar line
2	GD 1	Kakching, Elangkangpokpi, Chandel, Old Thoubal and 11 kV New Moreh areas of Manjour Power System along with Tarun Load of Myanmar Power System	05-Sep-23 05:46	05-Sep-23 06:05	0:19:00	0	19	0.00%	0.66%	2928	2872	Eakching, Elangkangpokgi, Chandel, Od Thoubal and 11 kV New Moreh areas of Manipur Power System along with Tamu load of Myanmar Power System were connected with the rest of NER Grid through 132 kV Thoubal New-Thoubal Old & 132 kV Thoubal Old-Katching lines. 132 kV Zhanzhandpur - Katching Jines were were under forced outage prior to event. At 05:46 Hrs on 05.09.2023, 132 kV Thoubal New-Thoubal Old & 132 kV Thoubal New-Katching lines were were under forced outage prior to event. At 05:46 Hrs on 05.09.2023, 132 kV Thoubal New-Thoubal Old & 132 kV Thoubal Old-Katching lines tripped. Due to tripping of these elements, Katching, Elangkangpokpi, Chandel, Old Thoubal and 11 kV New Moreh areas of Manipur Power System along with Tamu load of Myanmar Power System to prior the rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Katching, Elangkangpokpi, Chandel, Old Thoubal and 11 kV New Moreh areas of Manipur Power System along with Tamu load of Myanmar Power System by charging 132 kV Thoubal New- Thoubal Old line at 06:05 Hrs on 05.09.2023.	132 kV Thoubal New-Thoubal Old & 132 kV Thoubal Old-Kakching lines
3	GD 1	Leshka Generating Station of Meghalaya Power System	05-5ep-23 11:38	05-Sep-23 12:00	0:22:00	77	0	2.69%	0.00%	2861	2975	Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Myrtdu Leshka - Khleihriat D/C lines. At 11:38 Hrs on 05.09.2023, 132 kV Myrtdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these elements, Leshka Generating Station of Meghalaya Power System got separated from the rest of NER Grid and subsequently collapsed due to loss of evacuation path. Power supply was extended to Leshka Generating Station of Meghalaya Power System by charging 132 kV Myrtdu Leshka - Khleihriat 1 line at 12:00 Hrs on 05.09.2023.	132 kV Myntdu Leshka - Khleihriat D/C lines
4	GD 1	Dhaligaon, Barpeta, Kokrajhar, Gosaigaon, Bilasipara, Gauripur and part load of Bornagar areas of Assam Power System	05-Sep-23 18:28	05-Sep-23 18:53	0:25:00	0	272	0.00%	8.03%	3168	3388	Dhaligaon, Barpeta, Kokrajhar, Gosaigaon, Bilasipara, Gauripur and part load of Bormagar areas of Assam Power System were connected with the rest of NER Grid through 160 MVA, 220/132 kV ICT 1 & 2 at BTFS. 132 kV Nalbari-Barpeta line and 312XV Gossigaon-Gauripur lines were under shuddown prior to event. At 18:28 Hrs on 05.09.2023, 160 MVA, 220/132 kV ICT 1 & 2 at BTPS tripped. Due to tripping of these elements, Dhaligaon, Barpeta, Kokrajhar, Gosaigaon, Bilasipara, Gauripur and part load of Bormagar areas of Assam Power System got separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Dhaligaon, Barpeta, Kokrajhar, Gosaigaon, Bilasipara, Gauripur and part load of Bormagar areas of Assam Power System by charging 160 MVA, 220/132 kV ICT 2 at BTPS at 18:53 Hrs on 05.09.2023.	160 MVA, 220/132 kV ICT 1 & 2 at BTP5
5	GD 1	Monarchak & Rabindranagar areas of Tripura Power System	07-5ep-23 14:08	07-5ep-23 14:32	0:24:00	75	11	2.43%	0.37%	3081	2998	Monarchak & Rabindranagar areas of Tripura Power System were connected with the rest of NER Grid through 132 KV Monarchak - Rokhia line. 132 KV Monarchak - Udaipur line was under planned shutdown prior to event. At 14:08 Hrs on 07.09.2023, 132 KV Monarchak - Rokhia line tripped. Due to tripping of this element, Monarchak & Rabindranagar areas of Tripura Power System got separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power supply was extended to Monarchak & Rabindranagar areas of Tripura Power System by charging 132 kV Monarchak - Rokhia line at 14:32 Hrs on 07.09.2023.	132 kV Monarchak - Rokhla line
6	GD 1	Kohima, Chiephobozou, Wokha and Sanis areas of Nagaland Power System	07-5ep-23 14:50	07-Sep-23 15:07	0:17	0	14	0%	0%	3117	2936	Kohima, Chiephobozou, Wokha and Sanis areas of Nagaland Power System were connected with the rest of NER Grid through 132 kV Karong - Kohima line. 132 kV Dimapur(Fo)-Kohima and 132 kV Doyang-Sanis lines were under forced outgae and 132 kV Kohima-Meuri line was under state approved shutdown priot to event. At 14:50 Hrs on 07.09.2023, 132 kV Karong - Kohima line tripped. Due to tripping of this element, Kohima, Chiephobozou, Wokha and Sanis areas of Nagaland Power System got separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Kohima, Chiephobozou, Wokha and Sanis areas of Nagaland Power System by charging 132 kV Karong - Kohima line at 15:07 Hrs on 07.09.2023.	132 kV Karong - Kohima line

						De	etails of Grid	Events duri	ng the Month	of Septem	ber 2023 in N	forth Eastern Region	👔 ग्रिड-इंडिया GRID-INDIA
	Category of Grid		These and Data of			Loss of gener	ration / loss of load	% Loss of generat	tion / loss of load w.r.t	Antecedent Ge	eneration/Load in the		
SI No.	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
7	GD 1	220 kV Rangia, 132 kV Rangia, Nalbari, Nathkuchi, Sipajhar and Kamalpur areas of Assam Power System	07-Sep-23 21:44	07-5ep-23 22:10	0:26	0	175	0%	5%	3156	3086	220 kV Rangia, 132 kV Rangia, Nalbari, Nathkuchi, Sipajhar and Kamalpur areas of Assam Power System were connected with the rest of NER Grid through 220 kV Amingaon - Kamalpur 1& II lines 132 kV Rangia-Motonga, 132 kV Rangia - Tangia, 132 kV Sipajhar - Rowta and 132 kV Amingaon - Kamalpur 1& II lines were under shutdown prior to event. At 21:44 Hrs on 07.09.2023, 220 kV BTPS - Rangia D/C lines tripped. Due to tripping of these elements, 220 kV Rangia, 132 kV Rangia, Naibari, Nathkuchi, Sipajhar and Kamalpur areas of Assam Power System got separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to 220 kV BTPS - Rangia 1 line at 22:10 Hrs on 07.09.2023.	220 kV BTPS - Rangia D/C lines
8	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	09-Sep-23 09:50	09-Sep-23 10:15	0:25:00	17	24	0.64%	0.89%	2657	2691	Tenga, Khupi areas and Diskhi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Balipara – Tenga line. At 09:50 Hrs on 09.09.2023, 132 kV Balipara – Tenga line tripped. Due to tripping of this element, 132 kV Balipara – Tenga line got separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power supply was extended to Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara – Tenga line at 10:15 Hrs on 09.09.2023.	132 kV Balipara - Tenga line
9	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	11-Sep-23 11:46	11-Sep-23 13:22	1:36:00	17	23	0.64%	0.90%	2657	2543	Tempa, Khupi areas and Diskhi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Balpara - Tenga line. At 11:46 Hrs on 11.09.2023, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas and Diskhi HEP of Arunachal Pradesh Power System got separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power supply was extended to Tenga, Khupi areas and Diskhi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 13:22 Hrs on 11.09.2023.	132 kV Balipara - Tenga line
10	GD 1	Leshka Generating Station of Meghalaya Power System	11-Sep-23 15:08	11-Sep-23 15:15	0:07:00	77	0	2.90%	0.00%	2657	2802	Leshka Generating Station of Meghalaya Power System was connected with rest of NER grid through 132 kV Khieriat(ME) - Leshka D/C lines. At 15:08 Hrs on 11.09 2023, 132 kV Myntdu Leshka - Khiehiniat D/C lines tripped. Due to tripping of these elements, Leshka Generating Station of Meghalaya Power System got separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path. Power supply was extended to Leshka Generating Station of Meghalaya Power System by charging 132 kV Leska - Khilehriat (ME) 1 line at 15:15 Hrs on 11.09:2023.	132 kV Myntdu Leshka - Khleihriat D/C lines
11	GD 1	Dharmanagar area of Tripura Power System	15-Sep-23 10:40	15-Sep-23 11:06	0:26:00	0	18	0.00%	0.65%	3036	2759	Dharmanagar area of Tripura Power System was connected with rest of NER grid through 132 kV Dharmanagar - Dullavchera line. 132 kV PK Bari - Dharmanagar line was under forced outage prior to event. At 10-40 Hrs on 15.09.2023, 132 kV Dwoharmanagar - Dullavchera line tripped. Due to tripping of this element, Dharmanagar area of Tripura Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Dharmanagar area of Tripura Power System by charging 132 kV Dharmanagar - Dullavchera line at 11:06 Hrs on 15.09.2023.	132 kV Dharmanagar - Dullavchera line
12	GD 1	Dimapur(NL) area of Nagaland Power System	15-Sep-23 18:32	15-Sep-23 20:11	1:39	0	110	0%	3%	3502	3627	Dimapur(NL) area of Nagaland Power System was connected with rest of grid through 132 kV Dimapur(PC) - Dimapur(NL) D/C lines. At 18:32 Hrs on 15.09 2023, 132 kV Dimapur(PG) - Dimapur(NL) D/C lines tripped. Due to tripping of this element, Dimapur(NL) area of Nagaland Power System got separated from rest of NRR Grid and subsequently collapsed due to no source available in this area. 132 kV Dimapur(PG) - Dimapur(NL) D/C lines were declared faulty at 20:11 Hrs on 15.09.2023. Power supply was extende to Dimapur(NL) area of Nagaland Power System by charging 132 kV Dimapur(PG) - Dimapur(NL) 2 line at 23.08 Hrs on 15.09.2023.	132 kV Dimapur(PG) - Dimapur(NL) D/C lines
13	GD 1	Churachandpur and Thanlon areas of Manipur Power System	16-Sep-23 16:43	16-Sep-23 18:48	2:05	0	16	0%	1%	2872	3102	Churachandpur and Thanlon areas of Manjpur Power System were connected with rest of NER grid through 132 kV Ningthoukhong - Churachandpur 1 line. 132 kV Churachandpur - Kakching, 132 kV Elangkangpokpi - Churachandpur and 132 kV Ningthoukhong - Churachandpur 2 lines were under forced outage prior to event. At 16:43 Hrs on 16.09.2023, 132 kV Ningthoukhong - Churachandpur 1 line tripped. Due to tripping of this element, Churachandpur and Thanlon areas of Manipur Power System got separated from rest of NER Grid and subsequently Collapsed but on source available in these areas. Power supply was extened to Churachandpur and Thanlon areas of Manipur Power System by charging 132 kV Ningthoukhong - Churachandpur 1 line at 18:48 Hrs of 16.09.2023.	132 kV Ningthoukhong - Churachandpur 1 line

						De	etails of Grid	Events duri	ing the Month	of Septem	ber 2023 in N	orth Eastern Region	👔 ग्रिड-इंडिया GRID-INDIA
-	Category of Grid		Time and Date of			Loss of gene	ration / loss of load	% Loss of genera Antecedent Co	ation / loss of load w.r.t	Antecedent G	eneration/Load in the		
s	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation	Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	14 GD 1	Dimapur(NL) area of Nagaland Power System	16-Sep-23 17:38	16-Sep-23 18:59	1:21	o	96	0%	3%	2947	3194	Dimapur(NL) area of Nagaland Power System was connected with rest of grid through 132 kV Dimapur(PG) - Dimapur(NL) 0/C lines. At 17:38 Hrs on 16.09.2023, 132 kV Dimapur(PG) - Dimapur(NL) D/C lines tripped. Due to tripping of this element, Dimapur(NL) area of Nagaland Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extened to Dimapur(NL) area of Nagaland Power System by charging 132 kV Dimapur(PG) - Dimapur(NL) 2 line at 18:59 Hrs on 16:09.2023.	132 kV Dimapur(PG) - Dimapur(NL) D/C lines
	15 GD 1	Dhaligaon, Barpeta, Gosaigaon and part load of Bornagar areas of Assam Power System	18-5ep-23 16:43	18-Sep-23 17:05	0:22	0	83	1%	1%	2783	2547	Dhaligaon, Barpeta, Gosaigaon and part load of Bornagar areas of Assam Power System were connected with rest of NER grid through 132 kV BTPS - Dhaligaon D/C lines. 132 kV Barpeta – Nalbari line was kept opened due to overloading of 132 kV Rangia – Nalbari line and 132 kV Gauripur – Gosaigaon line was kept opened due to overloading of 132 kV Bargia – Nalbari line and 132 kV Gauripur – Gosaigaon line was kept opened due to overloading of 132 kV Bargia – Nalbari line and 132 kV Gauripur – Gosaigaon line was kept opened due to Dhaligaon. Barpeta, Gosaigaon and part load of Bornagar areas of Assam Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was entended to Dhaligaon 1 line at 17:05 Hrs on 18.09.2023.	132 kV BTPS - Dhaligaon D/C lines
	16 GD 1	Monarchak Generating Station and Rabindranagar area of Tripura Power System	19-5ep-23 12:08	19-5ep-23 12:18	0:10	70	9	3%	0%	2485	2442	Monarchak Generating Station and Rabindranagar area of Tripura Power System were connected with rest of NER Grid through 132kV Monarchak - Udaipur line. 132 kV Monarchak - Rokhia was under planned shutdown prior to event. At 12:08 Hrs on 19:09:2023, 132 kV Monarchak - Udaipur line tripped. Due to tripping of this element, Monarchak Generating Station and Rabindranagar area of Tripura Power System got separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power supply was extended to Monarchak Generating Station and Rabindranagar area of Tripura Power System by charging 132 kV Monarchak - Udaipur line at 12:18 Hrs on 19:09:2023.	132 KV Monarchak - Udaipur line
	17 GD 1	Margherita(Ledo), Rupai and Chapakhowa areas of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System	19-Sep-23 17:20	19-Sep-23 17:31	0:11	0	72	0%	3%	3095	2734	MargheritajLedoj, Rupai and Chapakhowa areas of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachial Pradeh Power System were connected with rest of NER Grid through 123 kV Tinsukia Margherital line. 132 kV Anoue, Pasighat line was under emergency shutdown, 132 kV Tinsukia - Rupai line was under forced outage prior to event. At 17:20 Hrs on 19.09.2023, 132 kV Tinsukia - Margherita line tripped. Due to tripping of this element, MargheritajLedoj, Rupai and Chapakhowa areas of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System gut separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Margherita[Ledoj, Rupai and Chapakhowa areas of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System by charging 132 kV Tinsukia - Margherita line at 17:31 Hrs on 19.09.2023.	132 kV Tinsukia - Margherita line
	18 GD 1	Chapakhowa area of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System	20-5ep-23 02:11	20-5ep-23 03:40	1:29	0	12.8	0%	1%	2809	2213	Chapakhowa area of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System were connected with rest of the VER Grid through 132kV Rupai - Chapakhowa line. 132 kV Along - Pasighat was under planned shutdown prior to event. At 02:11 Hrs on 20.09.2023, 132 kV Rupai - Chapakhowa line tripped. Due to tripping of this element, Chapakhowa area of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System got separated from rest of NER Grid and subsequently collapsed due to no source availabile in these areas. Power system got separated to Chapakhowa area of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System by charging 132 kV Rupai - Chapakhowa line at 03:40 Hrs on 20.09.2023.	132 kV Rupai - Chapakhowa line
	19 GD 2	Kameng Hydro Power Station (NEEPCO)	20-Sep-23 02:55	20-Sep-23 03:50	0:55	450	0	18%	0%	2530	2093	Kameng Hydro Power Station (NEEPCO) was connected with rest of the NER Grid through 400 kV Balipara - Kameng D/C lines. At 02:55 Hrs on 20.09.2023, 400 kV Balipara - Kameng D/C lines tripped. Due to tripping of these lines, Kameng Hydro Power Station (NEEPCO) got separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path. Power supply was extended to Kameng Hydro Power Station (NEEPCO) by charging 400kV Kameng - Balipara 1 line at 03:50 Hrs on 20.09.2023.	400 kV Balipara - Kameng D/C lines

	Details of Grid Events during the Month of September 2023 in North Eastern Region												
	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Loss of generation / loss of load		% Loss of generation / loss of load w.r.t		Antecedent Generation/Load in the			
SI No.						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	rief details of the event (pre fault and post fault system conditions)	Elements Tripped
										(Along, Basar and Daporizo areas of Arunachal Pradesh Power System were connected with rest of the NER Grid through 132 kV Along - Pasighat line. 132 kV Daporijo - Ziro line was under forced outage since 00:35 Hrs on 22.09.2023.	
20	GD 1	Along, Basar and Daporizo areas of Arunachal Pradesh Power System	22-Sep-23 13:01	22-Sep-23 15:02	2:01	0	15	0%	1%	2549	2422	At 13:01 Hrs on 22.09.2023, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Along, Basar and Daporizo areas of Arunachal Pradesh Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Along - Pasighat line
												Power supply was extended to Along, Basar and Daporizo areas of Arunachal Pradesh Power System by charging 132 kV Along - Pasighat line at 15:02 Hrs on 22:09.2023.	
												Karong area of Manipur Power System was connected with rest of the NER Grid through 132 kV Imphal (MSPCL) - Karong line. 132 kV Kohima-Karong line was under forced outage prior to event.	
21	GD 1	Karong area of Manipur Power System	25-Sep-23 17:24	25-Sep-23 17:39	0:15	0	15	0%	0%	3039	3156	At 17:24 Hrs on 25.09 2023, 132 kV Imphal (MSPCL) - Karong line tripped. Due to tripping of this element, Karong area of Manipur Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Imphal (MSPCL) - Karong line
												Power supply was extended to Karong area of Manipur Power System by charging 132 kV Imphal (MSPCL) - Karong line at 17:39 Hrs on 25.09.2023	
												Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Balipara - Tenga line.	
22	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	27-Sep-23 13:35	27-Sep-23 13:53	0:18	13	27	1%	1%	2529	2721	At 13:35 Hrs on 27.09 2023, 132 kV Baligara - Tenga line tripped. Due to tripping of this element, Tenga, khupi areas and Dikhi HFG of Anucachi Prodech Power System were got separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	132 kV Balipara - Tenga line
												Power supply was extended to Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 13:53 Hrs on 27.09.2023.	
												Chapakhowa area of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System were connected with rest of the NER Grid through 132 kV Rupai - Chapakhowa line. 132 kV Along - Pasighat was under forced outgate prior to event.	
23	GD 1	Chapakhowa area of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh	28-Sep-23 12:17	28-Sep-23 12:43	0:26	0	13	0%	0%	2520	2718	At 12:17 Hrs on 28.09.2023, 132 kV Rupai - Chapakhowa line tripped. Due to tripping of this element Chapakhowa area of Assam Power System and Roing, Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System got separated due to no source available in these areas.	132 kV Rupai - Chapakhowa line
		Power System										Power supply was extended to Chapakhowa area of Assam Power System and Roing. Tezu, Namsai and Pasighat areas of Arunachal Pradesh Power System by charging 132 kV Rupai - Chapakhowa line at 12:43 Hrs on 28.09.2023.	
												Daporijo, Basar and Along areas of Arunachal Pradesh Power System were connected with rest of the NER Grid through 132 kV Ziro-Daporijo line. 132 kV Along - Pasighat line was under forced outage prior to event.	
		Daporijo, Basar and Along								ļ		At 12:32 Hrs on 28.09.2023, 132 kV Ziro-Daporijo line tripped. Due to tripping of this element Daporijo, Basar and Along areas of Arunachal Pradesh Power System got separated due to no source available in these areas.	
24	GD 1	areas of Arunachal Pradesh Power System	28-Sep-23 12:32	28-Sep-23 14:19	1:47	0	11	0%	0%	2561	2721	Power supply was extended to Daporilo, Basar and Along areas of Arunachal Pradesh Power System by charging 132 KV Along - Pasighat line at 14:19 Hrs on 28:09.2023.	132 kV Ziro-Daporijo line
25	GI-II	Assam	06-Sep-23 10:41	06-Sep-23 12:30	1:49	230	o	8%	0%	3038	2955	Tegrey unit's tripped at 10/41 Hrs on Ub.U9.2023 due to Turbine Shaft Vibration High. Revision done from Block No. 51 on 06.09.2023.	BgTPP Unit 3
26	GI-II	Assam	06-Sep-23 16:54	06-Sep-23 18:30	1:36	200	0	6%	0%	3122	2987	BgTPP Unit 3 tripped at 16:54 Hrs on 06.09.2023 due to Feed Water System Problem. Revision done from Block No. 75 on 06:09.2023.	BgTPP Unit 3
27	GI-I	Tripura	07-Sep-23 02:51	07-Sep-23 04:30	1:39	27	0	1%	0%	2907	2849	AGTCCPP Unit 4 & 6 tripped at 02:51 Hrs on 07.09.2023 due to Lube Oil Temperature High Trip and due to trippin of GTG - 4 respectively. Revision done from Block No. 19 on 07.09.2023.	AGTCCPP Unit 4 & 6
28	GI-II	Assam	14-Sep-23 21:20	14-Sep-23 23:00	1:40	46	0	1%	0%	3556	3545	AGBPP Unit 2 tripped at 21:20 Hrs on 14.09.2023 due to high vibration. Revision done from Block No. 93 on 14.09.2023.	AGBPP Unit 2
29	GI-II	Tripura	30-Sep-23 16:04	30-Sep-23 17:30	1:26	218	0	9%	0%	2394	2703	Palatana Module II tripped at 16:04 Hrs on 30.09.2023 due to Stator Earth Fault. Revision done from Block No. 71 on 30.09.2023	Palatana Module II