							Details o	of Grid Events	s during the	e Month of Sept	ember 2021	in Northern Region	
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 during t	ration / loss of load he Grid Event	% Loss of generation Antecedent Genera Regional Grid durin	tion/Load in the	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)		of Grid Event	Kestoration	(HH:MM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	Gi-2	UTTAR PRADESH	01-Sep-2021 11:39	01-Sep-2021 13:28	1:49	0	0	0.000	0.000	45144	56958	Barelly and, Line tripped from Barelly end only, Go f Urnase end dahr togen which led to LBB operation at Urnase end. Daei 21 400227.         21 800 persiss, doi:10.1012 https://doi.org/10.1012 https://doi.1012 https://doi.org/10.1012 https://doi.org/10.1012 htt	20 KV 315 MVA ICT 2 at Unnao(UP) 20 KV 315 MVA ICT 3 at Unnao(UP) 00 KV 300 MVA ICT 1 at Unnao(UP) Bus 2 at Unnao(UP) Bus 2 at Unnao(UP) Kareliky-Unnao (UP) Ctx 2 Unnao(UP)-Jehta_Hardoi Road (UP) (PG) Ctx 1
2	GI-2	HARYANA	02-Sep-2021 12:14	02-Sep-2021 13:58	1:44	0	0	0.000	0.000	46101	57961	400/220 kV 500 MVA KCT 2 & ICT 4 at Ballabhgarh(PG) tripped on over flux protection operation. As per PMU, no fault is observed. As per SCADA, bus voltage and frequency during antecedent condition was 406KV & 49.95Hz which was in premissible flmits apper overflux protection is concern. In antecedent condition, 400/220 kV 500 MVA ICT 2 & ICT 4 at Ballabhgarh(PG) were carrying 205MW & 202MW respectively.	20 kV 500 MVA ICT 4 at Ballabhgarh(PG) 20 kV 500 MVA ICT 2 at Ballabhgarh(PG)
3	GD-1	RAJASTHAN	02-Sep-2021 16:47	02-Sep-2021 19;42	2:55	690	0	1.566	0.000	44073	56098	220 Alai-Bhu Ckt-1 tripped on YA phase to earth fault. Fault occurred due to snapping of Yaph bus side jumper of 220 Akai. 120 Alai-Bhu Ckt-1 wink was connected to Bus 1. Buit then converted into bus fault resulted into tripping of 220 Kedest to Side Side Side Side Side Side Side Side	20 IV 315 MVA.ICT 3 at Akal(RS) 20 IV 305 MVA.ICT 4 at Akal(RS) Amaragar-Akal (RS) Ck-1 Akal-Bhu (RS) ck-1 Akal-Bhu (RS) ck-2 Bo (V 500 MVA.ICT 1 at Akal(RS) Akal-Samer Ck-1 Akal-Gkal Ck-1 Akal-Gkal Ck-1
4	GD-1	PUNJAB	03-5ep-2021 08:57	03-Sep-2021 11:05	2:08	0	150	0.000	0.280	44800	53549	Janabur end. Due to bus har protection operation, 220 NV Jalandhar-tanalpur (BB) CH: 1, 220 NV Ganguwai-Jannabur (BB) 21 220 W CH: 1, 220 NV Bhare, 2-Annabur (BB) CH: 1, 220 NV Ganguber (Janabur) (SP) (SFC) (CH: 1, 220 OV Ganguber) 31 220 NV transformer 2 & 3 and 220/1322NV 100MAV transformer 1 all tripped. Apper PMU, R-N phase to earth fault with delayed detarance in 240 mate to lowed by V+ phase to earth fault with betweed Apper SCAD, load loss of apport: SID6WV is Dobreved 5) 520 NV	/ Ganguwal-Jamalpur (BB) CK:1 / Jamalgur(BB)-Sangrur (PS) (BB) CK:1 / Bahdra, -Bamalpur (BB) CK:1 / Jalandhar-Jamalpur (BB) CK:1 Bus 1 at Jamalpur (BB) / Jamalpur (BB)-DandhariKalan(IPS) (PSTCL) CK:1
5	GD-1	NEW DELHI	04-5ep-2021 13:16	04-Sep-2021 14:08	0:52	140	200	0.337	0.377	41509	53072	220 KV Pragati-IV (UV) CAT-3 tripped on SU I: protection auma same fault. Arter tripping of a booke mentioned elements, 21 20MW generation of Pragati T G got Islanded with BOMW load of Park street. Due to load generation unbalance, 104MW GT-1 and 122MW STG at Pragati TPS tripped on over frequency protection operation. As per PMU, R-N phase to earth fault 42 20 KW STG at Pragati TPS tripped on over frequency protection operation. As per PMU, R-N phase to earth fault 42 20 KW STG at Pragati TPS tripped on sover frequency protection operation. As per PMU, R-N phase to earth fault	MW Pragati Gas Turbines - UNIT 1 MW Pragati-B (DV UNT 3 Pragati-B (DV) cdc 1 Pragati-B (DV) cdc 2 Pragati-Park street (DV) cdc 1
6	GD-1	J&K	05-Sep-2021 14:26	05-Sep-2021 17:14	2:48	0	40	0.000	0.077	40108	51714		/ Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 / Amargarh(NRSS XXX)-Ziankote(JK) (PDD JK) Ckt-2
7	GI-2	HARYANA	06-5ep-2021 02:39	06-Sep-2021 04:53	2:14	0	0	0.000	0.000	41891	55291	B-ph CT 02/00V Panipat-Panipat TPS dct-3 got burst and became bus full which resulted into bus-1 bus bar protection         2) 220 W           pertation. Due to bus bar protection of bus.1, 20V V Panipat(BB) Avrial(DV) (BMD) (ctt-3, Bct.3, 20V V Panipat(FH))         3) 20V V           Panipat(BB) (HVPN). Clt-1 & Rct.3, 400/220 V 450 MVA (CT 1 at Panipat(BB) (ctt-3, Bct.3, 20V V Panipat(FH))         4) 20 VV           220 KV Panipat(FH) (blt-1 & Rct.3, 400/220 V 450 MVA (CT 1 at Panipat(BB) (ctt-3, Bct.3, 20V V Panipat(FH))         4) 20 KV           VP Panipat(BB) (HVPN). Clt-1 & Rct.3, 400/220 W         4.5 (Ctt.3, 400/220 W)         6) 200V           VP Panipat(BH) (BMD) (Ctt.2 tripped. As per PMU, B-H phase to earth fault is observed. In antecedent condition, 22 is 0) 200V         5) 400/220 VV           VP Panipat(BH)-RelEV) (BMD) (Stt.4 2 (Ctt.3) (Ctt.2) Ctt.2) and 2(Dtt.2) (Stt.2) (Stt.2) and 2(Dtt.2) (Stt.2) (Stt.2) and 2(Dtt.2) (Stt.2) (Stt.2) (Stt.2) (Stt.2) and 2(Dtt.2) (Stt.2) (Stt.	/ Panjpat(B8)-Narela(DV) (BBMB) Ckt-3 Panjpat(B8)-Narela(DV) (BBMB) Ckt-1 Panjpat(B8)-Napad(B3) (KrNH) Ckt-1 Panjpat(B8)-Chajpat(B3) (KrNH) Ckt-2 Dk v45 DM AK-1 La Panjpat(B8) Bu 1 at Panjpat(B8) Bu 1 at Panjpat(B8) Panjpat-Kunkketra (B8) Ckt-1 Panjpat-Chunkketra (B8) Ckt-2 Panjpat-Chunkketra (B8) Ckt-2 Panjpat(B8) (KrNH) Ckt-2 B) (YrWH) Ckt-2 B) (YrWH) Ckt-2
8	GD-1	UTTAR PRADESH	06-Sep-2021 16:39	06-Sep-2021 17:11	0:32	0	650	0.000	1.103	44236	58939	of 220W (or. Noids-Noids ace 20 ckt 2 at Gr. Noids end got blasted and line isolator of same line also got damaged by 20 kt 2 at Gr. Noids end got blasted and line isolator of same line also got damaged by 20 kt 2 at Gr. Noids end got blasted and line isolator of same line also got damaged by 20 kt 2 at Gr. Noids end got blasted and line isolator of same line also got damaged by 20 kt 2 at Gr. Noids end got blasted and line isolator of same line also got damaged by 20 kt 2 at Gr. Noids end got blasted and got blasted by 20 kt 2 at Gr. Noids end got blasted by 20 kt 2 at Gr. Noids end got blasted by 20 kt 2 at Gr. Noids end got blasted by 20 kt 2 at Gr. Noids end got blasted by 20 kt 2 at Gr. Noids end got blasted by 20 kt 2 at Gr. Noids end got by 20 kt 2	00 IvV 500 MVA ICT 6 at Gr Nolda(UPC) 10 IvV 500 MVA ICT 5 at Gr Nolda(UPC) 10 IvV 300 MVA ICT 1 at Gr Nolda(UPC) Gr Nolda Holds act 20 dx 1 Gr Nolda Holds act 20 dx 2 Gr Nolda Holds act 20 dx 2 Gr Nolda Holds act 129 (UP) dx 1
9	GD-1	UTTAR PRADESH	07-Sep-2021 01:50	07-Sep-2021 03:30	1:40	440	0	1.045	0.000	42111	58873	400 LV Muzitatinitigat (UP-)romoundPhage(UP) (LCL: 1 tripped on 4+M tault at Jusem fm rom vannupPhage in al 400 LV 2) 110 MM Jahanada GV (UPC) (LPC) (LCL: 1 tripped on 4+M tault at JUSem fm rom VannupPhage (RA) Aper PMLA (B) 300 DV and R+M tault doerned at the same time. As per SCADA, generation of apport. 4400 NV to desrved at Visionapraya (BP) (LPC) (LCL: 1 and 400 LV Mattinitian GV (VI) (LPC) (LCL: 1 and 400 LV Mattinitian (LPC) (LPC) (LCL: 1 and 400 LV Mattinitian (LPC	W Vishnuparyag HPS - UNIT 1 W Vishnuparyag HPS - UNIT 3 Alakanada GV(UEC)-Vishnuparyag(IP) (UP) Ckt-1 Muzaffarnagar(UP)-Vishnuparyag(IP) (UP) Ckt-1 W Vishnuparyag HPS - UNIT 2
10	GD-1	HIMACHAL PRADESH	07-Sep-2021 12:21	07-Sep-2021 13:45	1:24	68	O	0.148	0.000	45846	58945	220 KV Bairasiul(NH)-Jessore[HP] (PG) Ckt-1 tripped on Y-M fault and 220 KV Bairasiul(NH)-Pong(BB) (PG) Ckt-1 tripped on R-N Stuit. An Jep CB Add Bairasiul and, 220 KV Bairasiul(NH)-Pong(BB) (PG) Ckt-1 tripped on R-D fault and A/R started and after 100m all three phase tripped on BB operation. And as gere DR 220 KV Bairasiul(NH)-Posore[HP] (PG) Ckt-1 lt ripped on R-P fault and A/R started and after 100m all three phase to phase fault. As per PMU, R-N & Y-H fault is observed at the same instant. As per SCADA, generation loss of 2) 220 KV Bairasiul(NH)-Besore[HP] (PG) Ckt-1 & 220 KV Bairasiul(NH)-Pissore[HP] (PG) Ckt-1 & 220 KV Bairasiul	/ Bairasiul(NH)-Jessore(HP) (PG) Ckt-1 Bairasiul(NH)-Pong(BB) (PG) Ckt-1

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	( GI 1or 2/ GD-1 to GD-5)		u onu Even	Restoration	(III.MM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
11	GD-1	HIMACHAL PRADESH	10-Sep-2021 02:18	10-Sep-2021 04:04	1:46	280	0	0.676	0.000	41437	55942	400 KV Wangto, GIS(HP)-Sorang(Greenke) (Greenke) CK-1 tripped on Y-N phase to earth fault, fault distance was 31.8km & fault current was 5.6k4 from Wangtoo/HP end. At the same time, 400 KV Kala AmB/RTL-Wangto, GIS(HP) (HPTCL) Ck-1 also tripped from Wangtoo(HP) end was it was charged through Tie Cd only on ame da (Maha bay Cd ADK K Kala AmB/RTL-Wangto, GIS(HP) (HPTCL) Ck-1 at Wangtoo(HP) was already in out condition with 400 KV Wangto, GIS(HP) Sorang(Greenke) (Greak) Ck-1 at was charged through Tie Cd and yoa ame da (Maha bay Cd ADK K Kala AmB/RTL-Wangto, GIS(HP) (HPTCL) Ck-1 at Wangtoo(HP) was already in out condition with 400 KV Wangto, GIS(HP) Sorang(Greenke) (Gk-1) Due tripping of these two limes 350MV Unit24 at Varcham Wangtoo HPP ripped as per Case-7 of SPS for reliable exocutation of power from NIPS, Barnpur, Sawar Kuddu, Basga and Karcham Wangtoo HPP generation complex. Aper HPUL V, YM base to earth full is doserved. As per SCADA generation loss of approx. 280MW is observed at Karcham Wangtoo HEP as per SPS case-7 operation.	1) 400 KV Kala Amb(PKTL)-Wangto, GIS(HP) (HPPTCL) CK-1 2) 400 KV Wangto_GIS(HP)-Sorang(Greenko) (Greenko) CKt-1
12	GD-1	UTTAR PRADESH	12-Sep-2021 22:12	12-Sep-2021 23:40	1:28	0	290	0.000	0.581	42682	49889	200V Rewa Road-Mirjapur ckt tripped on B-N phase to earth fault. At the same time, 400/2201V 240NVA ICT 3 at 200Ra, B(UP) tripped on over current protection operation. As reported by SLDC-UP, in antecedent condition, 400/220 kV 315 MVA ICT & 400/2201V 240NVA ICT 3 at 0 bra, B(UP) were carrying 253NW & 302NW. Just after tripping of 400/2201V 240NVA ICT 3, WW bading of 315NWA ICT 2 rose up to 515NW which led to tripping of 1CT 2 on over current protection. As per PMU, B-N phase to earth fault is observed. As per SCADA, load loss of approx. 290NW is observed in UP control area. In antecedent condition, 400/220 kV 315 MVA ICT 2 at Obra_B (UP) carrying 302MW as per NRLDC SCADA.	1) 400/220 kV 315 MVA ICT 2 at Obra_B(UP) 2) 400/220 kV 240 MVA ICT 3 at Obra_B(UP)
13	GD-1	J&K	13-Sep-2021 06:34	13-Sep-2021 13:25	6:51	0	230	0.000	0.564	36826	40763	220 KV Amargarh(NRSS XXXX), Zankote(UK) (POD IX) CKs 1.8. CKs 2 tripped on 8-N phase to earth fault. Fault distance and fault current was 26.34km 8.3.15kA from Amargarh end. As per PMU, 8-N phase to earth fault is observed. As per SCADA, load loss of approx.230MW is observed in J&K control area.	1) 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 2) 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-2
14	GD-1	HIMACHAL PRADESH	13-Sep-2021 12:58	19-Sep-2021 23:18	10:20	0	35	0.000	0.070	41175	49901	At 12:38Hrs, 400 KV Kala Amb(PKT)-Wangto_GiS(HP) (HPPTCL) Ckt-1 tripped on Y-N phase to earth fault after unsuccessful A/R operation during charging of 410 Main Bay. Further after approx 20sec, 400 KV Karcham Wangtoo(JSW)- Wangto_GIS(HP) (HPPTCL) Ckt-1 also tripped from Karcham end only. As per PMU, Y-N phase to earth fault cherred in 120ms is observed. As per 2:0AD. Joad Isos of approx 53NK to Isosevia In HP control area. In antecedent condition, 400 KV Kia Amb(PKTL)-Wangto_GiS(HP) (HPPTCL) Ckt-1 & 400 KV Karcham Wangtoo(JSW)-Wangto_GiS(HP) (HPPTCL) Ckt-1 carrying 646MW & 575MW respectively.	1) 400 KV Karcham Wangtoo(JSW)-Wangto_GIS(HP) (HPPTCL) Ckt 1 2) 400 KV Kala Amb(PKTL)-Wangto_GIS(HP) (HPPTCL) Ckt-1
15	GD-1	UTTRAKHAND	13-Sep-2021 13:00	13-Sep-2021 14:46	1:46	88	150	0.212	0.302	41465	49741	At 12-A7Hrs, 226W Khodri-Sarsawan ckt tripped on R-N phase to earth fault after unsuccessful A/R operation. Later at 13-00Hrs, 220W khodri-Sarsawan ckt tripped on R-N phase to earth fault. Further at 13-03Hrs, 220W khodri-Jajra ckt tripped on B-N phase to earth fault. After tripping of above mentioned lines all the four units at Nodri HEP tripped on over speed protection operation and 220W khodri-Majir ckt 12 point simaled with 220W khodri-Line ckt 24 which later tripped at 13-08Hrs, As per PMU, R-N phase to earth fault with unsuccessful A/R at 12-A7Hrs, R-N phase to earth fault at 13:08Hrs and 8-M phase to earth aut at 13:08Hrs howered. As per SCANOL and loss of approx. 150MW is observed in HP control area and generation loss of approx. 88MW at Khodri HEP is observed.	1) 220 KV Saharangur(IVP)-Khodni(UK) (UP) CK-1 2) 220 KV Khodni(UK)-Majri(HP) (UK) CK-1
16	GD-1	Rajasthan	13-5ep-2021 13:06	13-5ep-2021 13:20	0:14	500	0	1.189	0.000	42038	48486	240MVAR bus reactor at 400kV Bhadia/PG) was opened, during antecedent condition 755kV bus voltage at Bhadia, 2 & fashaght, 2 was in the range of 775-77kV. After further 30seconds, 765kV Bhadia, 2-Almer ckt-1 was charged from Bhadia, 2 and only, resulted into sudden shoot up of voltage at Bhadia (2/RG). Due to over voltage, 765 KV Bhadia, 2- fasheght, 2 (PG) Clit 1: tripped on over voltage protection at Bhadia. (2) PGI to Due to over voltage, 765 KV Bhadia, 2- fasheght, 2 (PG) Clit 1: tripped on over voltage routinge tages 1-partial stark was a stark of the same time, 220(3)4X Transformer-18,24 R Renev Jharkhand Three Solar & Renew Sunwave Solar (connected at fraheght, 2) (FI) for voltage stope 1-partial stark) voltage 1-based to same of the solar stark of the solar generation. Voltages at 220kV & 755KV Bas af fasheght, 2 were in permissible range 225kV & 788KV Respectively. A sper PMU, no failt is observed and stark R Renew Sunwave Solar (connection Again at 14:Ad9Hs; 2:20/33W Transformer-18,2 at Renew Jharkhand Three Solar & R Renew Sunwave Solar (connection Again at 14:Ad9Hs; 2:20/33W Transformer-18,2 at Renew Jharkhand Three Solar & R Renew Sunwave Solar (connection Again at 14:Ad9Hs; 2:20/33W Transformer-18,2 at Renew Jharkhand Three Solar & R Renew Sunwave Solar (connection Again at 14:Ad9Hs; 2:20/33W Transformer-18,2 at Renew Jharkhand Three Solar & R Renew Sunwave Solar (connection Again Again Again Again Again Again Again Again Again 33V end resulted into loss of 700MW solar generation. As per PMU, no fault is observed at shadia, 2-based beet us solar generation loss of Aper SOK, 755KV Bhadia, 2,Aymer ckt-1 might have led to shoot up of voltage. As per SCADA, solar generation loss of approx. 700MW is observed.	1) 765 KV Bhadla_2 -Fatehgarh_II (PG) Ckt-1
17	Gŀ-1	UTTRAKHAND	14-Sep-2021 19:55	14-Sep-2021 21:40	1:45	0	0	0.000	0.000	40752	51129	220 KV Khodri (UK)-Majri (MP) (UK) Ckt-1, 220 KV Sarsawan (UP)-Khodri (UK) (UP) Ckt-1, 220 KV Saharanpur (UP)-Khodri (UK) (UP) Ckt-1, 220 KV Saharanpur (UP)-Khodri and 220KV Khodri Chiltro ckt-1 all tripped on bus bar protection operation at 220KV Khodri SA. Sa per PMU, no fault is observed during the event. In antecedent condition, 220 KV Khodri (UK)-Majri (P) (UK) Ckt-1, 220 KV Sarsan (UP)-Khodri (UK) (UP) (Ckt-1, 220 KV Saharanpur (UP)-Khodri (UK) (UP) Ckt-1, 220 KV Sanara (UP) (Ckt-1, 220 KV Sanara (UP)-Khodri (UK) (UP) (Ckt-1, 220 KV Saharanpur (UP)-Khodri (UP) (Ckt-1, 220 KV Saharanpur (UP)-Khodri (UK) (UP) (Ckt-1, 220 KV Saharanpur (UP)-Khodri (UP) (Ckt-1, 220 KV Saharanpur (UP)-Khodri (UK) (UP) (UK) (UK) (UK) (UK) (UK) (UK) (UK) (UK	1) 220 KV Khodrij(UK)-Majri(HP) (UK) CK-1 2) 220 KV Sarsawan(UP)-Khodrij(UK) (UP) CK-1 3) 220 KV Saharanpur(UP)-Khodrij(UK) (UP) CK-1
18	GD-1	J & K	20-5ep-2021 14:31	20-Sep-2021 15:02	0:31	0	550	0.000	0.975	48690	56425	At 14:31 Hrs CB damp of 220 KV Wagoora[PG]-Pampore[PDD] [PG] Ckt-1 burnt at Pampore end. 220 KV Wagoora[PG]- Pampore[PDD] (PG] Ckt-1 tripped from pampore end during this fault on earth fault protection operation as bus bar protection is not in service at 220W pampore. Af altut still persisted, 220 KV Wagoora[PG]-Pampore[PDD] (PG] (Lt-2 tripped in 2-2 from Wagoora end and on overcurrent protection at Pampore end. At the same time, 720W Wagoora[PG]-Pampore[PDD] (PG] (Lt-2 tripped in 2-2 from Wagoora end and on overcurrent protection at Pampore end. At the same time, 720W Wagoora[PG]-Pampore[PDD] (PG] (Lt-2 tripped in 2-2 from Wagoora end and on overcurrent protection at Pampore end. At the same time, 720W Wagoora[PG]-Pampore[PDD] (PG] (PG] (PG] 182 both tripped from 2inktote end only in 2-3 and 220W Kilshenpur-Mithaar ckt tripped in 2-2 from Kilshenpur end. As per PMUL B4 phase to act halt with dhaged clarance in 4000 is observed. Jac per 20AD, load Iso Gargora. 400M Wi observed. In antecedent condition, 220KV Wagoora-Ziankote ckt 182, 220 KV Wagoora[PG]-Pampore[PDD] (PG] (Lt-1& and 220K Kilshenpur-Mithaara ckt were carrying 57MW, 33MW, 211MW, 221MW & 69MW respectively.	1) 220 KV Wagoora(PG)-Pampore(PDD) (PG) (Kt-2 2) 220 KV Kishenpur(PG)-AMr Bazar(PDD) (PDD) (Kt-2 3) 220 KV Wagoora(PG)-Zainatote(JK) (PDD JK) (Kt-2 4) 220 KV Wagoora(PG)-Zainatote(JK) (PDD JK) (Kt-1 5) 220 KV Wagoora(PG)-Pampore(PDD) (PG) (Kt-1
19	GI-2	HARYANA	21-Sep-2021 10:10	21-Sep-2021 10:51	0:41	0	0	0.000	0.000	45854	54091	800 KV HVDC Kurukshetra[PG] Pole-1 & Pole-2 blocked due to filter control block alarm on filter power limit. As per PMU, no fault is observed. In antecedent condition, 800 KV HVDC Kurukshetra[PG] Pole-1 & Pole-2 carrying 250MW each.	1) 800 KV HVDC Kurukshetra(PG) Pole-1 2) 800 KV HVDC Kurukshetra(PG) Pole-2

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		( GI 1or 2/ D-1 to GD-5)		of Grid Event	Restoration	(HH:MM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
:	0	GI-1	HIMACHAL PRADESH	25-Sep-2021 15:15	25-Sep-2021 16:32	1:17	0	0	0.000	0.000	40904	45785	220 IX Phocal[HP]-Hallagarh[PG] (ADHPL] Etc.1 & 220 IX AD hydro(AD)-Phocal[HP] (ADHPL] Etc.1 both tripped on R-Y phase to phase fault. Fault distance was 135km[100K,2:1] & fault current was 1.4kh from Hallagarh[PG] end. As per PMU, R- Y phase to phase fault is observed. As per SCADA replay, 220 KV AD hydro(AD)-Phocal[HP] (ADHPL] Ctc.1 stropped only from Phocal[HP] (ADHPL] Ctc.1 stropped only from Phocal[HP] (ADHPL] Ctc.1 were carrying 45MW & 20MW respectively.	1) 220 KV Phozal(HP)-Nallagarh(PG) (ADHPL) Ckt-1 2) 220 KV AD hydro(AD)-Phozal(HP) (ADHPL) Ckt-1
:	1	GI-2	UTTAR PRADESH	28-5ep-2021 07:20	28-Sep-2021 09:11	1:51	0	0	0.000	0.000	36538	44062	N phase to earth fault is observed. As per SCADA SOE, Main CB (connected at bus 1) & Tie CB of 400kV Balia-Biharshariff ckt-	1) 400 KV Balla-Potna (PG) CKr.1 2) 400 KV Mau(UP)-Bala(IPG) (PG) CKr.1 3) 400 KV Balla-Bhardbarff (PG) (CKr.2 4) 400 KV Balla-Bhardbarff (PG) (CKr.2 5) 785/400 KV 1500 MVA (CT 1 at Balla(PG)
:	2	GI-2	UTTAR PRADESH	30-Sep-2021 05:45	30-Sep-2021 07:01	1:16	0	0	0.000	0.000	37887		400 KV Unnao(UP)-lehta_Hardol Road (UP) (PG) Ck-2 tripped on B-4 phase to earth fault after unsuccessful A/R operation. 410 KV Unnao(UP)-lehta_Hardol Road (UP) (Ck-1 also tripped on B-4 phase to earth fault after unsuccessful A/R operation during A/R operation. Fault distance was 273km1005k from Agra end. As per PMU, B-4 phase to earth fault with unsuccessful A/R to isoberedin antecedent condition. Adv V Unnao(UP)-lehta_Hardol Road (UP) (PG) Ck-2 & 400 kV Agra-Unnao (UP) Ck-1 were carrying GMW & 145MW respectively.	1) 400 KV Agra-Unnao (UP) Cit-1 2) 400 KV Unnao(UP)-Jehta_Hardoi Road (UP) (PG) Cit-2

						<u>Deta</u>	ils of Gr	id Events	during tl	he Month of S	Septemb	er 2021 in Western Region	
SI N	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	load duri	ration / loss of ng the Grid /ent	load w.r.t A	Load in the d during the	Antecedent Genera the Regional		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)		
1	GD-1	WR	06-Sep-21 00:35	06-Sep-21 00:43	0:08	-	350	-	0.79%	48179	44055	At 00:35 Hrs/06-09-2021, 220 kV Suhela- Bemetara 1 tripped on R-E fault. After the tripping of circuit 1, 220 kV Suhela- Bemetera 2 tripped on 0/C protection operation. Prior to the event, 220 kV Bemetara- Khedamara was kept on open condition ( from 23:24 Hrs/05-09-21) for controlling loading of NSPCL ICTs. This resulted in total interruption at 220kV Bemetara, Mungeli, Gendpur substations & 132kV Mungeli, Lormi, Takhatpur, Pandaria, Kawardha, Gandai, Saja and Dhamdha substations.	
2	GI-2	WR	07-Sep-21 16:05	07-Sep-21 18:39	2:34	-	-	-	-	48265	46089	At 16:05 Hrs/07-09-2021, all the elements connected to 400 kV Bus 1&2 at Kirnapur tripped on Busbar protection operation due to blasting of 400 KV Bus coupler B Phase CT.	Tripping of 1.400 kV Kirnapur- Bhilai 2.400 kV Kirnapur- Seoni 3.400/132 kV Kirnapur iCTs 1&2
3	GD-1	WR	11-Sep-21 15:58	11-Sep-21 16:32	0:34	-	80	-	0.18%	45618	43389	On 11-09-2021, Outage was availed for 220KV Suva Main Bus-2 in Morning & outage planned for 220KV Suva Main Bus-1 in afternoon for providing the jumpers from 220 KV GACL NALCO 18.2. Jumpering work of 220KV Bus-2 completed and 220KV Bus-2 was restored at 14.37Hrs. For availing 220 kV Bus 1 outage all the elements connected were transferred one by one to 220 kV Bus 2. At 15:58 Hrs, while transferring 220/66 kV ICT 1 from Bus 1 to Bus 2, its Earth Switch 1 in Y phase HGIS module operated and resulted in tripping of all the elements.	2.220 kV Suva- Kosamba 3.220 kV Suva- Dahej 4.220 kV Suva- DGEN
4	GD-1	WR	14-Sep-21 16:53	14-Sep-21 18:05	1:12	105	-	0.23%	-	44953	43719	At 16:54 Hrs/14-09-2021, 220 kV Bhuj Bus 1 and all the connected elements tripped on Gas Zone trip due to moisture ingress in B phase compartment of CB of 220kV Bhuj-Vadva line. There was a wind generation loss of 105 MW at GIWEL-II due to loss of evacuation path at 220 kV Vadva substation.	Tripping of 1.220 kV Bhuj- Vadva 2.220 kV Bhuj- Ratadiya 1 3. 400/220 kV Bhuj ICTs 3&5
5	GI-2	WR	20-Sep-21 12:03	20-Sep-21 12:26	0:23	-	-	-	-	52960	48490	At 12:03 Hrs/20-09-2021, 400 kV Bus 2 side B phase isolator of 50 MVAR Kasor BR closed inadvertently during the tracing of DC leakage which resulted in tripping of all the elements connected to 400 kV Kasor Bus 1. As reported by GETCO, the DC leakage was due to faulty Motor limit switch. Prior to the event, 400 kV Kasor Bus 1 was under planned outage for realignment of 400 KV B phase Bus 2 side pantograph isolator of 125 MVAR BR.	
6	GI-1	WR	22-Sep-21 10:26	22-Sep-21 11:45	1:19	-	205	-	0.42%	50368	49108	At 10:26 Hrs/22-09-2021, four 220 kV lines tripped on Earth fault protection operation at 220kV New Kharadpada S/s. 220 kV Kala 1&2 A//R successfully at the same time at New Kharadpada end. There was a load loss of 205 MW due to the event.	
7	GD-1	WR	23-Sep-21 14:40	23-Sep-21 16:20	1:40	55	-	0.12%	-	46642	46504	At 14:40 Hrs/23-09-2021, During B-E fault on 220 kV Bhuj-Dayapar 2, all the elements at 220 kV Dayapar tripped on LBB maloperation of 220 kV Bhuj 2 at Dayapar end. There as a generation loss of around 55 MW due to the event at Dayapar (INOX) wind plant.	Tripping of 1. 220 kV Bhuj-Dayapar 2 2. 220/33 kV Dayapar ICTs 1,2&3
8	GI-1	WR	23-Sep-21 17:15	23-Sep-21 17:45	0:30	-	48	-	0.10%	48036	47239	At 17:15 Hrs/23-09-2021, four 220 kV lines tripped on Earth fault protection operation at 220kV New Kharadpada S/s during operation of Bus-2 isolator of 220kV Kala-New Khadarpada-1. This occurred while shifting of 220kV Kala-New Khadarpada-1 from Bus-2 to Bus-1 to attend hot spot on R Phase T clamp of 220 KV Main Bus-2 (over 220 KV Reliance Line 2 Bay).	Tripping of 1.220 kV New Kharadpada- Kharadpada 1&2 2.220 kV New Kharadpada- Reliance 1&2
9	GD-1	WR	24-Sep-21 14:35	24-Sep-21 15:22	0:47	35	-	0.07%	-	47313	46496	At 14:35 Hrs/24-09-2021, 220 kV Bhuj-Gadhsisa tripped on R-E fault resulted in generation loss of 41.4 MW at Gadsissa (Renew Power) wind generation plant due to loss of evacuation path.	Tripping of 1.220 kV Bhuj- Gadhsisa
10	GI-1	WR	27-Sep-21 17:40	27-Sep-21 19:33	1:53	-	90	-	0.19%	47678	46688	At 17:40 hrs/27-09-2021, 220 kV Magarwada- Magarwada(PG) D/C line tripped due to DEF protection operation at Magarwada end. As intimated by SLDC DD, DEF protection operated due to delayed clearance of R-E fault in 66 kV Varkund – Dalwada D/C.	

						Deta	uls of Gr	id Events	during t	he Month of S	Septemb	per 2021 in Western Region	
Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	load duri	ration / loss of ng the Grid vent	% Loss of gene load w.r.t A Generation/ Regional Gri Grid I	Antecedent Load in the d during the	Antecedent General the Regional (		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 Load (MW)		
11	GD-1	WR	28-Sep-21 21:54	28-Sep-21 22:40	0:46	41.4	-	0.08%	-	49174	44399	At 21:54 Hrs/28-09-2021, 220 kV Bhuj-Gadhsisa tripped on R-E fault resulted in generation loss of 41.4 MW at Gadsissa (Renew Power) wind power plant due to loss of evacuation path.	Tripping of 1.220 kV Bhuj- Gadhsisa
12	GD-1	WR	29-Sep-21 15:24	29-Sep-21 16:27	1:03	680	-	1.41%	-	48184		At 15:24 hrs/29-09-2021 400 kV MB Power- Jabalpur 1&2 tripped on R-E fault at MB Power end only. A/R operated successfully at Jabalpur end. Due to loss of evacuation path, MB Power unit 1 (600 MW) & unit 2 (600 MW) tripped. There was a generation loss of 680 MW due to the event.	

						Details o	of Grid	Events	during th	e Month of	Septemb	er 2021 in Eastern Region	
Sl No	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM	Loss of gene of load durin Eve	ng the Grid	of load w.r. Generation Regional G	eneration / loss at Antecedent n/Load in the rid during the l Event	Antecedent Gener the Regiona		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	Ramchandrapur	03-Sep-21 21:52	03-Sep-21 22:07	00:15	0	200	0.00%	0.83%	29440	23982	At 21:52 hrs, Bus PT of 220 KV Bus-2 at Ramchandrapur burst, leading to tripping of both 220 KV buses at Ramchandrapur. This led to total power failure at Ramchandrapur. Around 200 MW load loss occurred in Adityapur, Rajkharsawan and Jadugoda. All loads shifted to alternate sources by 22:07 Hrs. Adityapur and Jadugoda was shifted to Chandil and Rajkharsawan was shifted to Chaibasa. 220 KV Main Bus 1 at Ramchandrapur was charged at 01:28 Hrs. All elements revived by 02:56 Hrs.	220 kV Main Bus I & II at Ramchandrapur 220 kV Jamshedpur-Ramchandrapur I, II & III (400/220 kV ICT I, ICT II & ICT III at Jamshedpur) 220 kV Joda Ramchandrapur 220 kV Chandil-Ramchandrapur 220 kV Chandis-Ramchandrapur D/c 3*150 MVA 220/132 kV ICT I, ICT III at Ramchandrapur
2	GD-1	Patratu	12-Sep-21 16:01	12-Sep-21 19:27	03:26	0	15	0.00%	0.07%	27707	20836	At 16:01 hrs, total power supply failure occurred at 220/132 kV Patratu (PTPS) S/s. Total 15 MW load loss reported, power supply to Patratu interrupted. During restoration, Patratu S/s again became became while charging 132 kV Patratu-Patratu PolyC (line usualk ket idle charged from JUSNL). Only 132 kv side became dead as 220 kV side wasn't charged till that time.	220 kV Main Bus I & II at Patratu 220 kV Patratu-Tenughat 220 kV Patratu-Hatia D/c 150 MVA 220/132 kV ICT II at Patratu 132 kV Patratu-Hatia D/c 132 kV Patratu-Kanke 132 kV Patratu-Patratu (DVC)-1
3	GD-1	Upper Kolab	18-Sep-21 17:59	18-Sep-21 18:57	00:58	73	0	0.26%	0.00%	27634	20795	At 17:59 hrs, all three circuits emanating from 220 kV UpperKolab HEP tripped and 220 kV bus became dead while synchronizing U#2 at UpperKolab. 73 MW generation loss occurred due to tripping of running U#1. All elements except U#2 revived by 20:02 Hrs	220 kV Main Bus I & II at UpperKolab 220 kV UpperKolab-Jaynagar-1 220 kV UpperKolab-Jaynagar-2 220 kV UpperKolab-Therubali-1 80 MW U#1 at UpperKolab
4	GD-1	Garwah	26-Sep-21 15:31	26-Sep-21 16:26	00:55	0	34	0.00%	0.18%	23527	18533	At 15:31 Hrs, 220 kV Daltonganj-Garwah (New) D/c tripped on B_N fault leading to total power failure 4220/132 kV Garwah (New) 5/s. Total 34 MW load loss occurred (including 11 MW traction loss at Garwah). Traction load was shifted to Rihand at 15:32 Hrs and power supply restored at Garwah by 16:26 Hrs through 220 kV Daltonganj-Garwah (New)-2. Ckt I was charged at 17:11 Hrs	220 kV Bus-1 & 2 at Garwah (New) 220 kV Daltonganj-Garwah D/c
5	GD-1	Hazipur	28-Sep-21 17:18	28-Sep-21 17:30	00:12	0	230	0.00%	1.28%	23709	17911	At 17:18 hrs, both 220 kV Buses at Hazipur tripped due to operation of LBB of 220 kV Hazipur- Amnour.II which led to total power failure at Hazipur and Amnour. Around 230 MW load loss occurred at Hazipur, Siwan, Chhapra, Amnour, Sithalpur. All elements except 220 kV Hazipur-Amnour II revived by 18:11 Hrs	220 kV Main Bus I & II at Hazipur 220 kV Hazipur-Muzaffarpur D/c 220 kV Hazipur-Amnour D/c 220 kV Hazipur-Aaruni (BTPS)-2 21 kV Hazipur-Baruni (BTPS)-2 220 MVA 220/132 kV ICT I at Hazipur 2*100 MVA 220/132 kV ICT I, ICT II at Hazipur
6	GD-1	Ramgarh	29-Sep-21 01:24	29-Sep-21 01:30	00:06	0	150	0.00%	0.78%	24628	19291	At 01:24 hrs, total power failure occurred at 220/132 kV Ramgarh, 132 kV Patratu S/s and 132 kV North Kampura S/s. Around 150 MW load loss occurred in Ramgarh, Patratu and North Kampura. All elements revived by 01:57 Hrs	220 kV Main Bus I & II at Ramgarh 220 KV Banchi-Ramgarh 220 kV Ramgarh-BFYS B J/c 2*150 MVA 220/132 kV ICT I, ICT II at Ramgarh
7	GD-1	Amnour	29-Sep-21 11:28	29-Sep-21 11:55	00:27	0	140	0.00%	0.76%	23317	18388	At 11:28 hrs, 220 kV Hazipur-Amnour-1 tripped due to operation of bus bar protection at Hazipur. Total power failure occurred at Amnour as it was being through 220 kV Hazipur-Amnour-1, Ckt-2 was under breakdown. Around 140 MW load loss occurred at Siwan, Chhapra and Amnour.	220 kV Main Bus I & II at Amnour 220 kV Hazipur-Muzaffarpur I 220 kV Hazipur-Amnour I 220 kV Hazipur-Barauni (BTPS)-2 220 kV Bus I at Hazipur

							Deta	ils of Grid	Events d	luring the Mo	onth of Se	eptember 2021 in Southern Region
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	Loss of gener load during the		% Loss of gene load w.r.t A Generation/ Regional Grid d Eve	ntecedent Load in the uring the Grid	Antecedent Generati Regional C Antecedent		Brief details of the event ( pre fault and post fault system conditions) Name of Elements (Tripped/Manually opened)
	(GI 107 2/ GD-1 to GD-5)					Generation Loss(MW)	(MW)	% Generation Loss(MW)	% Load Loss (MW)	Generation (MW)	Load (MW)	
1	GD-1	Tamil Nadu	11-Sep-21 11:33	11-Sep-21 11:53	20mins	0	72	0.00	0.00	43523	44526	Complete Outage of 230kV/110kV/22kV Karaikudi_TN of TANTRANSCO: As per the report submitted, triggering incident was jumper cut between breaker to isolator in 230kV Karaikudi_TN Karaikudi_PG Line-2 at Karaikudi_TN end. This resulted in buts fault at 230kV faraikudi_TN end. 230kV BB orazierated and all the lines connected to 230kV Bus supply failure conditions, 120kV Karaikudi_ZNV Karaikudi_TN Line -1,2 220kV/110kV/22kV Karaikudi_TN SS. During this 230kV Bus supply failure conditions, 110kV Sivagangai Kavanu, which is one of the source feeders to 110kV Shogangai SS got tripped due to line fault at 1127hrs. Subsequently at 11:35hrs, 110kV Karaikudi-Valuthur line 41 110kV Algarikol-Karaikudi_TNN-SD to over load, result ing in loss of supply at 110kV Bus of Karaikudi-Valuthur line 4. 230kV Karaikudi_TN-N-N.T.Kudi
2	GD-1	Andhra Pradesh	19-5ep-21 10:00	19-Sep-21 10:17	17mins	71	0	0.00	0.00	45605	47918	Complete Outage of 220kV Upper Sileru PH and 220kV Donkarai PH of APGENCO: As per the report submitted, triggering incident was, 1. 220kV Upper Sileru - Donkarai tripping of 220 KV Upper Sileru - Donkarai and 220 KV Upper Sileru - Pendurthy in so no peration of earth fault protection at Donkarai 2. 220kV Upper Sileru - Pendurthy and Pendurthy ends respectively. At the same time, 220kV Lobera Sileru Donkarai and 200 kW and the same time, 220kV Upper Sileru - Pendurthy and Pendurthy end Fishe stepeticitye. At the same time, 220kV Upper Sileru Donkarai and two units due to loss of evacuation at 220kV Upper Sileru PH . This also led to complete outage fo 220kV Donkarai PH due to loss of 4. Upper sileru U#4 5. Donkarai U#1
3	GD-1	Andhra Pradesh	19-5ep-21 11:48	19-5ep-21 12:33	45mins	123	0	0.00	0.00	47867	49500	Multiple Tripping in 220kV Lower Sileru PH and Complete Outage of 220kV Upper Sileru PH and 220kV Donkarai PH of APGENCO: During antecedent conditions, 220kV Upper Sileru and 220kV Donkarai were radially connected from 220kV/322kV Bommuru SS 1. 220 kV Lower Sileru - Bommuru through 220kV Lower Sileru Bus-2. 220kV Lower Sileru was oeprating in bus split condition. Triggering incident was tripping of 220 kV 2. Upper sileru U#2 and 3 Lower Sileru - Bommuru Ine on Br Alut. This resulted in deenergisation of 220kV Lower Sileru Bus-2 and complete outage of 220kV 3. Donkarai U#1 Upper Sileru PH and 220kV Donkarai PH .
4	GD-1	Karnataka	19-Sep-21 12:55	19-Sep-21 14:45	1hr 50mins	0	130	0.00	0.00	46023	48389	Complete outage of 220kV/110kV Mahalingapura SS of KPTCL: As per the report submitted, triggering incident was R-phase conductor snapping of 220kV Mahalingapura Warendra Line-2 at Mahalingapura end resulting in bus fault. Immediately, BBP operated and all the elements connected 220kV bus got tripped. This resulted in complete outage of 220kV/110kV Mahalingapura SS.
5	GD-1	Karnataka	21-Sep-21 03:49	21-Sep-21 04:44	55mins	24	90	0.00	0.00	36978	36479	Complete Outage of 220kV GM Navar of M/s GM Navar, 220kV Nandhihal Switching Station , 220kV/110kV Bijapur SS and 520kV/110kV Bijapur SS and 220kV/110kV Bijapur SS and 520kV/110kV Bij
6	GD-1	Andhra Pradesh	26-5ep-21 02:48	-	-	0	0	0.00	0.00	36838	34741	Complete Outage of 400kV RYTPP Generating Station of APGENCO: During antecedent conditions, 400kV Kalikin RYTPP Line -2 was under outage. Triggering incident was tripping of 400kV Kalikiri RYTPP Line -1 on cover voltage stage-1 outciton at RYTPP end and DT was received at Kalikiri end. Since both the lines connected to RYTPP got tripped, this resulted in complete outage of 400kV RYTPP generating station. There was no generation in RYTPP during this event.
7	GI-2	Andhra Pradesh	11-Sep-21 03:58	11-Sep-21 05:44	1hr 46mins	0	0	0.00	0.00	32814	34198	Multiple Tripping in 400KV/220kV Gazuwaka SS and Tripping of BTB HVDC Gazuwaka Pole-1 and 2: At 03:58hrs, there was R-phase CT blast in 400KV Jeypore Gazuwaka Line-1 and Filter Bank Tie Bay at Gazuwaka end. Line-1 got tripped on operation of Interestion At 04:02hrs, 4000KV Jeypore Gazuwaka Pole-1 and 2 at Jeypore end. As both Jeypore Gazuwaka Line-2 got tripped, there was no AC side voltage from East side, and hence HVDC Gazuwaka Pole-2 also got tripped during this event.
8	GI-2	Karnataka	15-Sep-21 18:55	16-Sep-21 09:04	14hrs 09mins	0	o	0.00	0.00	43159	44443	Tripping of 400kV Bus-1 of 400kV/220kV Nelamangala SS of KPTCLAs per the report submitted, triggering incident was maloperation of Bus-1 BBP at Nelamangala end and main circuit breakers of all the lines connected to Bus-1 got tripped. At the same time, 400kV 1. 400kV Nelamangala Hiriyur Line-2 Nelamangala Hiriyur Line-2 tripped on operation of over voltage protection at Nelamangala end and DT was received at Hiriyur end.
9	GI-1	Tamil Nadu	20-Sep-21 20:21	21-Sep-21 02:07	5hr 46mins	0	0	0.00	0.00	39785	42471	Tripping of 230kV Bus-1 of 230kV/110kV Gummidipoondi SS of TANTRANSCO: As per the report submitted, triggering incident was B-N fault in 230kV Gummidipoondi ARS feeder. At the same time, 230kV Bus-1 BBP protection operated and all elements connected to 230kV Bus-1 of 230kV/110kV Gummidipoondi Sg ot tripped.

								<u>Deta</u>	ils of Grid	Events d	luring the Mo	onth of Se	ptember 2021 in Southern Region	
sı		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	C 11 E	% Loss of gener load w.r.t A Generation/I Regional Grid du Even	ntecedent .oad in the aring the Grid	Antecedent Generatio Regional C		Brief details of the event ( pre fault and post fault system conditions)	Name of Elements (Tripped/Manually opened)
		( GI 1or 2/ D-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	Tamil Nadu	23-Sep-21 15:38	25-5ep-21 19:40	52hrs 2mins	0	0	0.00	0.00	43861	43963	Tripping of 230KV Bus of 400kV/230kV MTPS St-3 Generating Station of TANGEDCO: During antecedent conditions, 230kV Bus-2 was under LC. Triggering incident was failure of 230kV Bus-1 side B-phase insulator of 230kV MTPS ST-3 Gobi feeder at 230kV MTPS end. Immediately 230kV Bus-1 BBP operated and all the connected elements got tripped.This resulted in De-energisation of 230kV bus of 400kV/230kV MTPS St-3 generating station	
	11	GI-1	Tamil Nadu	28-Sep-21 09:25	28-Sep-21 10:22	57mins	0	0	0.00	0.00	44471	42322	Tripping of 230kV Bus of 230kV/110kV/22kV Karaikudi_TN SS of TANTRANSCO: As per the report submitted, triggering incident was failure of Y-phase bus PT of 230kV Bus at Karaikudi TN. Immediately, 230kV Bus BBP operated and all the connected elements of 230kV bus got tripped at 230kV/110kV/22kV Karaikudi_TN SS. 110kV was intact during this event.	1. 230kV Karaikudi TN Kavanur-1, 3 &4 2. 230kV Karaikudi TN N T Kudi 1&2 3. 230kV Karaikudi TN Karaikudi (PGCIL)-1& 2 4. 230kV Karaikudi TN Valthur

						Deta	uls of Grid Ev	ents during	the Month of	September	r 2021 in Nort	h Eastern Region	
	Category of Grid Event		Time and Date of				ration / loss of load he Grid Event	% Loss of genera Antecedent Cor	tion / loss of load w.r.t neration/Load in the	Antecedent Ge	eneration/Load in the ional Grid		0590
Sl 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
												Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi Generating Station were connected with the rest of NER Grid through 132 kV Balipara-Tenga Line.	
1	GD-I	Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi Generating Stations	03-Sep-21 08:35	03-Sep-21 09:02	0:27:00	0	20	0.0	0.0	2391	2188	At 08:35 Hrs on 03.09.2021,132 kV Balipara-Tenga Line tripped. Due to tripping of this element, Tenga and Khupi areas of Arunachal Pradesh Power System and Diashi Generating Station were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Balipara - Tenga line
												Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi Generating Station were connected with the rest of NER Grid through 132 kV Balipara-Tenga Line.	
2	GD-I	Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi Generating Stations	03-Sep-21 10:08	03-Sep-21 10:18	0:10:00	0	20	0.0	0.0	2341	2301	At 10:08 Hrs on 03:09:2021,132 LV Balipara-Tenga Line tripped. Due to tripping of this element, Tenga and Khupi areas of Arunachal Pradesh Power System and Dishis Generating Station were separated from the rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Balipara - Tenga line
												Pasighat, Roing, Tezu & Namsai areas of Arunachal Power System were connected with the rest of NER Grid through 132 kV Along-Pashighat line.	
3	GD-I	Pasighat Area of Arunachal Pradesh Power System	03-Sep-21 11:37	03-Sep-21 12:39	1:02:00	0	15	0.0	0.0	2272	2373	A 11:37 Hrs on 03.09.2021, 132 kV Along-Pashighat line tripped. Due to tripping of this element, Pashighat and the radially commercied Roing, Tezu & Namasi areas of Aramachal Power System were separated from the rest of NER Grid and subsequently collapsed the tors nource available in these areas.	132 kV Along-Pashighat line
												Pasighat, Roing, Tezu & Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Along-Pasighat Line.	
4	GD-I	Pasighat, Roing, Tezu & Namsai areas of Arunachal Pradesh Power System	04-Sep-21 11:43	04-Sep-21 12:43	1:00:00	0	12	0.0	0.0	2139	2470	At 11:43 Hrs of 04.09 2021, 132 kV Along-Pasighat Line tripped. Due to tripping of this element Pasighat, Roing, Tezu & Namsa areas of Armachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Along-Pashighat line
												Monarchak Generating station and Rabindranagar area of Tripura Power System were connected with the rest of NER Grid through 132 kV Monarchak - Rokhia line and 132 kV Monarchak - Udaipur line.	
5	GD-I	Monarchak Generating station and Rabindranagar area of Tripura Power System	05-Sep-21 02:05	05-Sep-21 02:14	0:09:00	64	4	0.0	0.0	2709	2419	At 02:05 Hrs of 05:09:2021,132 kV Monarchak - Rokhia line and 132 kV Monarchak - Udaipur line tripped. Dae to tripping of these elements, Monarchak Generating atation and Rabindranagar area of Trippar Power System were separated from the rest of NER Grid and subsequently collapsed use to load generation instructh in this area.	132 kV Monarchak - Rokhia Line, 132 kV Monarchak - Udaipur Line.
												Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal (Yurembam)-Karong Line and 132 kV Karong-Kohima Line.	
6	GD-I	Karong area of Manipur Power System	05-Sep-21 09:12	05-Sep-21 09:28	0:16:00	0	10	0.0	0.0	2717	2299	At 09:12 Hrs of 05:09:2021,132 kV Imphal (Yurenbam)-Karong Line and 132 kV Karong-Kohima Line tripped. Due to tripping of these elements, Karong area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	132 kV Imphal (Yurembam)-Karong Line and 132 kV Karong-Kohima Line
												Myndtu Leshka HEP of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Myntdu Leshka - Khleihriat D/C Line.	
7	GD-I	Myndtu Leshka HEP of Meghalaya Power System	05-Sep-21 11:14	05-Sep-21 11:35	0:21:00	18	0	0.0	0.0	2731	2319	At 11:14 Hrs of 05.09.2021,132 kV Myntdu Leshka - Khleihriat D/C Line tripped.Due to tripping of these elements, Myndtu Leshka HEP of Meghalaya Power System were separated from the rest of NER Grid and subsequently collapsed due to loss of evacuation path.	132 kV Myntdu Leshka - Khleihriat 1 Line, 132 kV Myntdu Leshka - Khleihriat 2 Line.
												Tenga and Khupi areas of Arunachal Pradesh Power System and DikshiHEP were connected with the rest of NER Grid through 132 kV Balinara Tenea Line.	
8	GD-I	Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi HEP	06-Sep-21 09:56	06-Sep-21 15:56	6:00:00	3.1	20.1	0.0	0.0	2881	2152	1.2 k Y sumpair (right Line, At 09:56 Hrs on 06:09:2021,132 kV Balipara-Tenga Line tripped. Due totripping of this element, Tenga and Khupi areas of Arunachal PrackadNover System and Dikshi HEP were separated from the rest of NERGrid and subsequently collapsed due to no source available in these areas.	132 kV Balipara - Tenga line & 132 kV Tenga- Khupi T/L
												Lumshnong area of Meghalaya Power System was connected to the restof NER grid through 132 kV Khliehriat(MePTCL) - Lumshnong line. 132 kV Lumshnong - Panchgram line was under outage since 18:24 Hrs on 06.09.2021.	
9	GD-I	Lumshnong Area of Meghalaya Power System	06-Sep-21 18:39	06-Sep-21 19:30	0:51:00	0	18	0.0	0.0	3290	2711	At 18:39 Hrs of 06:09.2021, 132 kV Khilehriat(MePTCL) - Lamshnongline tripped. Due to tripping of this element, Lamshnong area of Meghalaya Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	132 kV Lumshnong - Panchgram line 132 kV Khliehriat(MePTCL) - Lumshnong line
												Rabindranagar Area and Monarchak Generating Station of Tripura Power System were connected with rest of NER grid through 132 kV Monarchak- Rokhia Line. 132kV Monarchak- Udaipur Line was under State approved S/D from 10:17 Hrs on	
10	GD-I	Rabindranagar Area and Monarchak Generating Station of Tripura Power System	08-Sep-21 15:05	08-Sep-21 16:04	0:59:00	60	5	0.0	0.0	3031	2448	08.69.2021. At 15:05 Hrs of 08.09.2021, 132 kV Monarchak- Rokhia Line tripped. Due to tripping of this element, Rabindranagar Area and Monarchak Generating Station of Tripura Power System were separeted from rest of NER grid and subsequently collapsed due to load generation mismatch in this area.	132 kV Monarchak- Rokhia Line
												Myndtu Leshka HEP of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Myntdu Leshka - Khleihriat D/C Line.	
11	GD-I	Myndtu Leshka HEP of Meghalaya Power System	09-Sep-21 14:42	09-Sep-21 15:23	0:41:00	123	0	0.0	0.0	2669	2411	Automation C Lank. 11 (4-24 Hrs of 06/09/2021,132 kV Myntdu Lebka - Kbleihriat DC Line tripped.Dae to tripping of these elements, Myndu Lebka HEP of Meghalaya Power System were separated from the rest of NER Grid and subsequently collapsed dae to loss of evacuation anth.	132 kV Myntdu Leshka - Khleihriat 1 Line, 132 kV Myntdu Leshka - Khleihriat 2 Line.
												Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi HEP were connected with the rest of NER Grid through 132 kV Balingar-Tenga Line.	
12	GD-I	Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi HEP	10-Sep-21 07:45	10-Sep-21 07:59	0:14:00	10	24	0.0	0.0	3181	2370	1.2 k V sampara-tenga Line. At 07:45 Hrs on 1009.2021,132 kV Balipara-Tenga Line tripped. Dae to tripping of this element, Tenga and Khupi areas of Arunachal Prackab Power System and Dikshi HEP were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Balipara - Tenga line, 132 kV Tenga- Khupi Line & Dikshi HEP Unit 1 & 2
												Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal (MSPCL)-Karong Line and 132 kV Karong - Kohima Line.	
13	GD-I	Karong area of Manipur Power System	11-Sep-21 06:50	11-Sep-21 06:57	0:07:00	0	14	0.0	0.0	2348	2060	At 06:57 Factors - Konima Line Trans. At 06:57 Hrs on 11.09 2021,132 kV Imphal (MSPCL) - Karong Line and 132 kV Karong - Kohima Line tripped. Due to tripping of these elements. Karong area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Imphal (MSPCL) -Karong Line and 132 kV Karong - Kohima Line

						Deta	ils of Grid Ev	vents during	g the Month of	Septembe	<u>r 2021 in Nort</u>	th Eastern Region	
	Category of Gr Event	id	Time and Date of			Loss of gener during t	ation / loss of load he Grid Event	% Loss of genera Antecedent Ge	ation / loss of load w.r.t eneration/Load in the	Antecedent G Reg	eneration/Load in the gional Grid		
l 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
14	GD-I	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	11-Sep-21 11:46	11-Sep-21 12:17	0:31:00	0	15	0.0	0.0	2163	2346	Pasighut, Roing, Tern and Namai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Along-Pasighut Line. At 11:46 Hrs on 11.09, 2021, 132 kV Along-Pasighat Line tripped. Due to tripping of this element, Pasighat, Roing, Tezu and Namsi areas of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Along-Pasighat Line
15	GD 1	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	12-Sep-21 12:36	12-Sep-21 13:31	0:55:00	0	11	0.0	0.0	2546	2385	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Along-Pasighat Line. At 12:36 Hrs on 12:09:2021,132 kV Along-Pasighat Line tripped. Due to tripping of this element.Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Along-Pasighat Line
16	GD 1	Ningthoukhong, Churachandpur, Thanlon and Elangkangpokpi Areas of Manipur Power System	13-Sep-21 11:57	13-Sep-21 12:28	0:31:00	0	18	0.0	0.0	2641	2427	Ningthoukhong, Churachandpur, Thanlon and Elangkangpokpi areas of Manipur Power System were connected with the rest of NER Grid through 132 kV Loktuk-Nigthoukhong Line, 132 kV ImphulPG)-Ningthoukhong Line, 132 kV Kakching - Churachadpur and 132 kV Kakching - Elangkangpokpi were under Shandown to avoid over loading of 132 kV Loktuk - Ningthoukhong Line. At 11:57 Hrs on 13.09 2021, 1132 kV Loktuk-Nigthoukhong Line, 132 kV Imphal(PG)-Ningthoukhong Line tripped. Due to tripping of these elements. Ningthoukhong, Churachandpur, Thanlon and Elangkangpokpi areas (Manipur Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Loktak-Nigthoukhong Line, 132 kV Imphal(PG)-Ningthoukhong Line
17	GD-I	Tenga and Khupi areas of Arunachal Pradesh Power System	14-Sep-21 10:48	14-Sep-21 11:06	0:18:00	10	22	0.0	0.0	2617	2404	Tenga and Khupi areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Balipara- Tenga Line. At 10-48 Hrs on 14.09-2021,132 kV Balipara-Tenga Line tripped. Due to tripping of this element, Tenga and Khupi areas of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to load-generation mismatch in these areas.	132 kV Balipara - Tenga line
18	GD-I	Tenga and Khupi areas of Arunachal Pradesh Power System	14-Sep-21 11:28	14-Sep-21 18:52	7:24:00	10	14	0.0	0.0	2618	2338	Tenga and Khupi areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Balipara- Tenga Line. At 11:28 Hrson 14.09:2021,132 kV Balipara-Tenga Line tripped. Due to tripping of this element, Tenga and Khupi areas of Arunachal Pradesh. Power System were separated from the rest of NER Grid and subsequently collapsed due to load-generation mismatch in these areas.	132 kV Balipara - Tenga line
19	GD-I	Kohima area of Nagaland Power System	15-09-2021 11:30	15-09-2021 12:02	0:32:00	0	16	0.0	0.0	2145	2550	Kohima area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Karong-Kohima, 132 kV Kohima-Wokha and 132 kV Kohima-Dirnapur(PG) lines. 132 kV Kohima-Meluri line was hand tripped by Nagaland due to Tower on verge of collapse. At 11:30 Hrs on 15.09 2021, 132 kV Karong-Kohima, 132 kV Kohima-Wokha and 132 kV Kohima-Dirnapur(PG) lines tripped. Due to tripping of these elements, Kohima area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	32 kV Karong-Kohima, 132 kV Kohima-Wok and 132 kV Kohima-Dimapur(PG) lines
20	GD-I	Monarchak and Rabindranagar areas of Tripura Power System	15/Sep/21 12:09	15/Sep/21 12:13	0:04:00	61	5	0.0	0.0	2709	2419	Monarchak - Rokhia line and 132 kV Monarchak - Udaipur line. 132 kV Monarchak - Rokhia line was under emergency shutdown from 09-46 hrs of 15.09 2021. At 12:09 Hrs of 15.09 2021,132 kV Monarchak - Udaipur line tripped. Dae to tripping of this elements, Monarchak and Rahindranagar areas of Tripura Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch.	132 kV Monarchak - Rokhia line and 132 kV Monarchak - Udaipur line
21	GD-I	Dimapur area of Nagaland Power System	15-09-2021 19:28	15-09-2021 20:13	0:45:00	0	81	0.0	0.0	2811	3254	Dimapur area of Nagaland Power System was connected with the rest of NER Grid through & 132 kV Dimapur(PG) - Dimapur(Nagaland)-I line. 132 kV Dimapur(PG) - Dimapur(Nagaland)-II line was under outage since 09:27 Hrs on 15.09.2021. At 19-28 Hrs on 15.09.2021, 132 kV Dimapur(PG) - Dimapur (Nagaland)-II line tripped. Due to tripping of this element, Dimapur area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Dimapur(PG) - Dimapur(Nagaland)- 132 kV Dimapur(PG) - Dimapur(Nagaland)- lines
22	GD-I	Margherita and Rupai areas of Assam Power System	16-Sep-21 14:10	16-Sep-21 14:19	0:09:00	0	97	0.0	0.0	2650	2215	Margherita and Rupai areas of Assam Power System were connected with the rest of NER Grid through 220/132 kV ICT 1 & 2 at Tinsakia SrS, 132 kV Tinsakia-Bordubi line and 132 kV Tinsakia-Dibrugarh line. At 14:10 Brs on 16/09.2021.220/132 kV ICT 1 & 2 at Tinsakia SrS, 132 kV Tinsakia-Bordubi line and 132 kV Tinsakia- Dibrugarh line tripped. Due to tripping of these elements: Margherita and Repai areas of Assam Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	220/132 kV Tinsukia ICT 1 & 2, 132 kV Tinsukia-Bordubi and 132 kV Tinsukia- Dibrugarh lines
23	GD-I	132 kV Mokokchung (DoP, Nagaland) Area of Nagaland Power System	18-Sep-21 10:37	18-Sep-21 11:02	0:25:00	0	23	0.0	0.0	2510	2126	132 kV Mokokchung (DoP, Nagaland) area of Nagaland Power System was connected to the rest of NER Grid through 132 kV Mokokchung(PG)-Mokokchung(DoP, Nagaland) DC Lines and 132 kV Doyang-Mokokchung (DoP, Nagaland) Line. At 10:37 Hr. on 18.09.2021, 132 kV Doyang-Mokokchung (DoP, Nagaland) Line and 132 kV Mokokchung(PG)- Mokokchung(DoP, Nagaland) DC Lines tripped. Due to tripping of these elements, 132 kV Mokokchung (PG)- Mokokchung(DoP, Nagaland) DC Lines tripped. Due to tripping of these elements, 132 kV Mokokchung (DoP, Nagaland) area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in the area.	132 kV Doyang-Mokokchung (DoP, Nagalar line, 132 kV Mokokchung(PG)- Mokokchung(DoP, Nagaland) D/C lines
24	GD-I	Ningthoukhong, Churachandpur, Thanion and Elangkangpokpi Areas of Manipur Power System	20-Sep-21 13:31	20-Sep-21 13:55	0:24:00	0	21	0.0	0.0	2475	2363	Ningthoukhong, Churachandpur, Thanlon and Elangkangpokpi areas of Manipur Power System were connected with the rest of NER Grid through 132 kV Loktak-Nigthoukhong Line, 132 kV Kakching - Churachadpur and 132 kV Kakching - Elangkangpokpi were under Shudown to avoid over loading of 132 kV Loktak - Ningthoukhong Line, 132 kV Kakching - Elangkangpokpi were under Shudown to avoid over loading of 132 kV Loktak - Ningthoukhong Line, 132 kV Loktak - Ningthoukhong Line, 132 kV Kakching - Grant Stark - Star	132 kV Lokrak-Nigthoukhong Line & 132 k* Imphal(PG)-Ningthoukhong Line

						Deta	ails of Grid E	vents during	the Month of	September	r 2021 in Nort	h Eastern Region	
	Category of Grid Event	1	Time and Date of			Loss of gener	ration / loss of load the Grid Event	% Loss of genera Antecedent Gen	tion / loss of load w.r.t neration/Load in the	Antecedent Ge Reg	neration/Load in the ional Grid		
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
25	GD-I	Monarchak Power Station and Rabindranagar s/s	22-Sep-21 12:39	22-Sep-21 13:01	0:22:00	64	3	0.0	0.0	1799	2396	Monarchak Power Station and Rabindranagar area of Tripura Power System were connected with the rest of NER Grid through 132 kV Monarchak - Rokhia line. 132kV Monarchak-Udaipar line was under Shudown. At 12-39 Hrs on 22.09 2021, 132 kV Monarchak- Rokhia line tripped. Dae to tripping of this element, Monarchak Power Station and Rabindranagar area of Tripura Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	132 kV Monarchak - Rokhia line
26	GD-I	Kameng HEP of Arunachal Pradesh Power System	24-Sep-21 14:52	24-Sep-21 17:46	2:54:00	300	0	0.1	0.0	2115	2353	Kameng HEP of Arunachal Pradesh Power System was connected with the rest of NER Grid through 400 kV Balipara - Kameng II Line. 400 kV Balipara - Kameng I Line was under outage since 12:30 Hs of 24.09:21 for infringement clearance between location 53:54. At 14:52 Hs on 24.09 2021, 400 kV Balipara - Kameng II Line tripped. Due to tripping of this element, Kameng HEP of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	400 EV Balipara - Kameng II Line, Kameng Unit I and Unit II
27	GD-I	Karong area of Manipur Power System	26-Sep-21 10:13	26-Sep-21 10:22	0:09:00	0	12	0.0	0.0	1882	2304	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal (Yarenbam)-Karong & 132 kV Karong-Kohimu lines. At 1013 Hrs on 2609 2021, 132 kV Imphal (Yarenbam)-Karong & 132 kV Karong-Kohima lines tripped. Due to tripping of these elements. Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to ne source available in the area.	132 kV Imphal (Yurembam)-Karong & 132 kV Karong-Kohima lines
28	GD-I	Karong area of Manipur Power System	26-Sep-21 16:15	26-Sep-21 16:20	0:05:00	0	11	0.0	0.0	1895	2367	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal (Yurembaun)-Karong & 132 kV Karong-Kohima lines. At 1615 Hrs on 2609 2021, 132 kV Imphal (Yurembaun)-Karong & 132 kV Karong-Kohima lines tripped. Due to tripping of these elements, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to ne source available in the area.	132 kV Imphal (Yurembam)-Karong & 132 kV Karong-Kohima lines
29	GD-I	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	27-Sep-21 12:48	27-Sep-21 14:56	2:08:00	0	17	0.0	0.0	2371	2392	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Along-Pasighat Line. At 12:48 Hs on 27:09.2021, 123 kV Along-Pasighat Line tripped. Due to tripping of this element, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to mo source available in these areas.	132 kV Along-Pasighat Line
30	GD-I	Dharmanagar area of Tripura Power System	27-Sep-21 16:42	27-Sep-21 16:52	0:10:00	0	10	0.0	0.0	2583	2337	Dharmanagar area of Tripura Power System was connected with the rest of NER Grid through 132 kV Dharmanagar-PK Bari Line. 132 kV Dharmanagar - Dullavchera Line was under planned shutdown from 09:00 Hrs on 27.09 2021. At 16:42 Hrs on 26.09 2021, 132 kV Dharmanagar-PK Bari Line tripped. Due to tripping of this element, Dharmanagar area of Tripura Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in the area.	132 kV Dharmanagar-PK Bari Line
31	GD-I	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	28-Sep-21 08:52	28-Sep-21 09:14	0:22:00	0	10	0.0	0.0	2359	2041	Pasighter, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Along-Pasighat Line. At 08:52 Hs on 28:09:2021.123 kV Along-Pasighat Line tripped. Dae to tripping of this element, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Along-Pasighat Line
32	GD-I	Kohima area of Nagaland Power System & Karong area of Manipur Power System	28-Sep-21 13:23	28-Sep-21 13:42	0:19:00	0	23	0.0	0.0	2391	2463	Kohinna area of Nagaland Power System & Karong area of Manipur Power System were connected with the rest of NER Grid through 122 kV Imphal (Yarembani)-Karong line, 132 kV Kohima-Woha line & 132 kV Dimapur(PG)-Kohima line, 132 kV Kohima-Meltri in uwa sunde shadowa due to tower on the verge of oillape. At 13:32 Hrs on 28.09 2021, 32 kV Imphal (Yarembam)-Karong line, 132 kV Kohima-Woha line & 132 kV Dimapur(PG)- Kohima line tripped. Due to tripping of these elements,Kohima area of Nagaland Power System & Karong area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Imphal (Yurembam)-Karong & 132 kV Karong-Kohima, 132 kV Kohima-Wokha & 132 kV Dimapur(PG)-Kohima lines
33	GD-I	Mokokchung (DoP, Nagaland) area of Nagaland Power System	28-Sep-21 17:16	28-Sep-21 17:52	0:36:00	21	26	0.0	0.0	2674	2592	Mokokchung (DoP, Nagaland) area of Nagaland Power System was connected to the rest of NER Grid through 132 kV Mokokchung(PG)-Mokokchung(DoP, Nagaland) DiC Lines and 132 kV Doyang-Mokokchung (DoP, Nagaland) Line. At 1716 Hrs oz 82.09 2021, 132 kV Doyang-Mokokchung (DoP, Nagaland) Line and 132 kV Mokokchung (PG)- Mokokchung(DoP, Nagaland) DiC Lines tripped. Due to tripping of these elements, 132 kV Mokokchung (PG)- Mokokchung (DoP, Nagaland) DiC Lines tripped. Due to tripping of these elements, 132 kV Mokokchung (DoP, Nagaland) area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in the area.	132 kV Doyang-Mokokchung (DoP, Nagaland) line, 132 kV Mokokchung(PG)- Mokokchung(DoP, Nagaland) D/C lines
34	GI 2	Assam	02-Sep-21 16:12	02-Sep-21 18:00	1:48:00	231	0	0.1	0.0	2428	2562	BgTPP Unit 2 tripped at 16:12 hours on 02-09-21 due to Air Pre-Heater Gear Box damage. Revision done from Block No. 73 on 02-09-21.	BgTPP Unit 2
35	GI 2	Assam	04-Sep-21 05:11	04-Sep-21 06:30	1:19:00	50	0	0.0	0.0	2145	2456	BGTPP Unit 3 tripped at 05:11 hours on 04-09-21 due to flame failure. Revision done from Block No. 27 on 04-09-21.	BGTPP Unit 3
36	GI 1	Assam	04-Sep-21 16:20	04-Sep-21 18:00	1:40:00	26	0	0.0	0.0	2715	2512	Khandong Unit 1 & 2 tripped at 16:20 hours on 04-09-21 due to high thrust bearing temperature: Revision done from Block No. 73 on 04-09-21.	Khandong Unit 1 & 2
37	GI 2	Assam	11-Sep-21 13:15	11-Sep-21 15:00	1:45:00	10	0	0.0	0.0	2245	2550	AGBPP Unit 7 tripped at 13:15 hours on 11-09-21 due to Exhaust pressure high. Revision done from Block No. 61 on 11-09-21.	AGBPP Unit 7
38	GI 2	Assam	22-Sep-21 06:35	22-Sep-21 08:00	1:25:00	29	0	0.0	0.0	2811	3254	AGBPP Unit 4 tripped at 06:35 hours on 22:09-21 due to tripping of gas Compressor 4. Revision done from Block No. 33 on 22- 09-21.	AGBPP Unit 4

							<u>Deta</u>	ils of Grid Ev	vents during	the Month of	September	r 2021 in Nort	h Eastern Region	
	Category of Ga Event	rid		Time and Date of				ation / loss of load he Grid Event		tion / loss of load w.r.t aeration/Load in the		eneration/Load in the jonal Grid		
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
39	GI 2	Assam		23-Sep-21 05:25	23-Sep-21 07:00	1:35:00	110	0	0.0	0.0	2447	2156	BgTPP Unit 3 tripped at 05:25 hours on 23-09-21 due to Combustion problem. Revision done from Block No. 29 on 23-09-21.	BgTPP Unit 3
40	GI 2	Assam		23-Sep-21 12:22	23-Sep-21 14:00	1:38:00	94	0	0.0	0.0	2657	2854	BgTPP Unit 1 tripped at 12:22 hours on 23-09-21 due to flame failure. Revision done from Block No. 57 on 23-09-21.	BgTPP Unit 1