									Details of	Grid Events d	uring the M	Ionth of June 2023 in Northern Region	💱 ग्रिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation the G	n / loss of load during Grid Event	% Loss of generation Antecedent Genera Regional Grid durin	a / loss of load w.r.t ation/Load in the ng the Grid Event	Antecedent General Regional	tion/Load in the Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
1	GI-1 to GD-5) GI-2	Rajasthan	04-Jun-2023 00:10	04-Jun-2023 01:24	1:14	Loss(MW)	Dand Loss (MW)	Loss(MW)	(ATW)	(MW) 48075	(MW) 56181	() As reported, at 00-10m; multiple 755W lines at Bhadia[0(0)] i.e., 755W Bhadia2-Faselganh2 ckt-1 & 2 and 765W Bhadia2-Ajmer ckt-1 tripped during have built instance of 0.9 mits, and the tripping are as follows: 755W Bhadia2-Tashiggank2 ckt-1 gave during have to earch fault full stemed in some 2 at Faselganh2 as type OR) with fault distance of 50.9 mits, and fault current of 144 from Bhadia[2(G)]. 755W Bhadia2-Tashiggank2 ckt-1 gave during have to earch fault full stemed in some 2 at Fastelganh2 as type OR) with fault distance of 50.9 mits, and fault current of 144 from Bhadia[2(G)]. 755W Bhadia2-Tashiggank2 ckt-1 gave during have to earch fault full stemed in some 2 at Fastelganh2 as type OR) with fault distance of 71.68 mits. 765W Bhadia2-Tashiggank2 ckt-1 gave during management R-M lault (full stemed in some 2 at Fastelganh2 as type OR) with fault distance of 71.68 mits. 765W Bhadia2-Tashiggank2 ckt-1 gave during thase to earch fault with fault distance of 90.9 mits, and fault current of 144 from Bhadia2(PG). 765W Bhadia2-Tashiggank2 ckt-1 gave during management R-M lault (fault stemed in some 2 at Fastelganh2 as type OR) with fault distance of 71.68 mits. 8.4 (0.010) 765W Bhadia2-Tashiggank2 ckt-1 distance curred on 756W Bhadia2-Fastelganh2 ckt-2 and line successfully auto-recidend. Then at 00:10:16:820Hs, again R 8.4 (0.010) 765W Bhadia2-Tashiggan2 ckt-1 tripped on permanent R-M fault with unsuccessful auto-recioe. 8.1 As 00:10:20:20Diss, 755W Bhadia2-Ajmer ckt-1 tripped on permanent R-M fault with unsuccessful auto-recioe. 8.1 As 00:20:20Diss, 755W Bhadia2-Ajmer ckt-1 tripped on permanent R-M fault with unsuccessful auto-recioe. 8.1 As 00:20:20Diss, 755W Bhadia2-Ajmer ckt-1 tripped on permanent R-M fault with unsuccessful auto-recioe. 8.1 As 00:20:20Diss, 755W Bhadia2-Ajmer ckt-1 tripped on permanent R-M fault with unsuccessful auto-recioe. 8.1 As per SCADA, no generation/0 dos is observed in Rajas	1] 7554Y Bhadlu2(PG) Fatehgarh2(PG) C4:-1 2) 7554Y Bhadlu2(PG) Fatehgarh2(PG) C4:-2 3) 7554Y Bhadlu2(PG) Ajmer(PG) C4:-1
2	GI-1	Rajasthan	05-Jun-2023 08:37	05-Jun-2023 11:26	2:49	175	D	0.382	0.000	45767	51259	I) Total generation of 230W TPGR_encusted through 220 IV TATA Noorar SL_BIN PG (TPGEL)-Bilaner(PG) (TPGEL) CLL As per PMU, during antecedent to addition at 223X TFGEL wat ~7724NU, and a structure of 15 NA and Fault 3A resported. 224X TATA Noorar SL_BIN PG (TPGEL) CLL tripped on 8-N phase to earth fault with fault current of 15 NA and fault distance (PG) in TeGEL water(PG) and TeGEL (CLL tripped on 8-N phase to), and fault and fault and the structure of the structure of 15 NA and fault and the structure of the s	1) 220 KV TATA Noossar SL_BIKN PG (TPGEL)-Billaner(PG) (TPGEL) Ckt
3	GI-2	Haryana	06-Jun-2023 00:10	06-Jun 2023 08:46	8:36	D	0	0.000	0.000	48645	60550	I 400/220kV Daulatabad(Har) 5/s has one and half breaker bus scheme. 400/220kV 315MVA (CT-1,2.3&4 and 400kV Daulatabad-Ohanonda D/C were connected at 400kV Bus-2 and the rest of the elements i.e., 400kV Daulatabad-Gargaon(HG) D/C & 400kV Daulatabad-Ohanonda D/C were connected at 400kV Bus-2. and the rest of the elements i.e., 400kV Daulatabad-Gargaon(HG) D/C & 400kV Daulatabad-Ohanonda D/C were connected at 400kV Bus-2. and the rest of the elements i.e., 400kV Daulatabad-Gargaon(HG) D/C & 400kV Daulatabad-Ohanonda D/C were connected at 400kV Bus-2. I So Jet 740-200k, B Hy and So can the ON D/C Gargaon(HG) D-Daulatabad(HV) (HV) CH-2. On this fault, A/R started at Daulatabad end, bl rether isotropic from both end on DT received from Gargaon(HG) end within "Somece of A/R start. D is right at 000kV Bus-2. D is real-started at 000kV Bus-2. D is right at 000kV Bus-2. D is right at 000kV Bus-2. D is right at 000kV Bus-2. D is D is portioned on 00 AUX Bus-2. D is right at 000kV Bus-2. D is D is portioned on 00 AUX Bus-2. D is D is portioned on 00 AUX Bus-2. D is D is portioned on 00 AUX Bus-2. D is D is portioned on 00 AUX Bus-2. D is D is portioned on 00 AUX Bus-2. D is D is D is D is D is protection. D is	11 400 KV Gurgaon/PGI Davlatabad(M) (HV) CK-1 21 400 KV Gurgaon/PGI Davlatabad(M) (HV) CK-2 31 4007 Ku; 24 davlatabad(MV) 41 400/22 XV 315 MVA ICT 41 calvalatabad(HV) 51 400/22 XV 315 MVA ICT 31 calvalatabad(HV) 61 400/22 XV 315 MVA ICT 2 at Davlatabad(HV)
4	GI-2	Uttar Pradesh	06-Jun-2023 23:59	07-Jun-2023 00:35	0:36	D	170	0.000	0.280	49804	60627	i) 460/122W Mau(UP) has double main transfer hus scheme at both 400W & 122W Mext. During anterdent condition, 400/122 W 200 MVA ICT 1.8.2 at Mau(UP) wher carrying approx. 105MW & 400/132 W 200 MVA ICT 1.8.2 at Mau(UP) has double main transfer hus at another hus. i) A reported, a 253 Phon 00B hum, 257 yeshes CT at Mau end of 122W Mau-Semari Jamaipur etc 2 damaged. On this full, 400/122 W 200 MVA ICT 1.8.2 at Mau(UP) both ripped on over current earth full protection operation. At the same time, 122W Mau-Semari Jamaipur etc. 2 damaged on the full, 400/122 W 200 MVA ICT 1.8.2 at Mau(UP) both ripped on over current earth full protection operation. At the same time, 122W Mau-Semari Jamaipur etc. 2 alor toget. A vool MuA ICT 3.8.2 at Mau(UP) hon-directional CFF protection started, however trip signal is not high. Details of protection operation in ICT-2 end to be reviewed. v) As per SOLDA, Change in demand of approx. 170MW is observed in UP control area. v) As per SOLDA, Change in demand of approx. 170MW is observed in UP control area.	1) 132W Mau-Semari Janalgur dd-2 2) 400/132 W 200 MVA ICT 1 et Mau(UP) 3) 400/132 W 200 MVA ICT 2 et Mau(UP)
5	GI-1	Haryana	06-Jun-2023 01:06	06-Jun-2023 04:14	3:08	D	240	0.000	0.418	46363	57451	I) 220/66V PalwelHit15 (5) has double main bus scheme. III AF reported, at 02 00/m, R-pohase common jumper abus likelator of 220/66V 100MA ICT-1 gat disconnected from suggestion insulator string due to breaking of natworker of supervision insulators string during high speed wind and subsequently it touched the 8-plass of 220V bus, which resulted in bus fault. 220 V Printula (GPT)-phase/INV) (VIVPNI) C4:1 & 2 tripped during the event. III) A per 078 IT Abus(IST) (GPT) 220V Pintulas (GPT)-phase and 53X hin 8-plass and fault clearing time of approx. 420ms. VI) A per 0781 at Pintula, R-9A double phase to ground fault with the delayd clearance of 320mser is doserved. VI) As per 7502 AF bindla, R-9A double phase to ground fault with the delayd clearance of 320mser. 400ms. VI) As per 7502 AF bindla, R-9A double phase to ground fault with the delayd clearance of 320mser. Is doserved.	1) 220 XV Prithala (GPTL)-Palwal(W) (HVPHL) CH-1 2) 220 XV Prithala (GPTL)-Palwal(W) (HVPHL) CH-2
6	GD-1	Himachal Pradesh	09-Jun-2023 16:01	09-Jun-2023 17:11	1:10	60	D	0.104	0.000	57580	65913	I) During antecedent condition, 220X/ Buchil-Lahal ckt was already under shutdown in order to avoid reverse power flow, 35 MW Buchil-Hahal ckt was already under shutdown in order to avoid reverse power flow, 35 MW Buchil-Hahal ckt was already under shutdown in order to avoid reverse power flow, 35 MW Buchil-Hahal ckt was already under shutdown in order to avoid reverse power flow, 35 MW Buchil-HS (IPP) - UNT 1 2 Korpet and E024 DOWN of generation was exacuting through 220 KV Chamera_Buchil Ckt. II) As reported, at E031 hrs, 220 KV Chamera_BitHyHauchil(BL) (LL) Ckt tripped on EN phase to earth fault during heavy rain and thunderstorm. Due to this III) As per FAUL at Jahandhar(FQ). EVH 15 at Zireped due to los of evacuation path. III As per FAUL on change in demand to betweed in H eXourcia Path. IV) As per SADA, on change in demand to betweed in H eXourcia Path. IV) As per SADA, seneration loss of approx. EXMW is observed at Buchil HPS(PP).	1] 220 KV Chamera_3(NH)-Budhil(LB) (LB) CX 2] 35 MW Budhil H65 (EP) - UNIT 1 3] 35 MW Budhil H65 (EP) - UNIT 2

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SI No.	Category of Grid Event (GI 1or 2/	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation the G Generation	n / loss of load during rid Event	% Loss of generation Antecedent Genera Regional Grid duri % Generation	n / loss of load w.r.t ation/Load in the ing the Grid Event % Load Loss	Antecedent Genera Regional	tion/Load in the Grid ^o Antecedent Load	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
7	GI-1 to GD-5)	Jammu & Kasmir and Ladakh	09-jun-2023 15:30	09-Jun-2023 19:31	4:01	Loss(MW)	0	0.185	0.000	(MW) 59332	(MW) 66437	I) During antecedent condition, 110 MW Kishenganga - UNIT 1 & 3 were generating approx. 110MW each. 110 MW Kishenganga - UNIT 2 was already under shutdown. 110 MW Kishenganga - UNIT 3, 220 W Kishenganga/INI)-Geland(PDD) [PC] (C4:1 and 220 W KishengangA)NH: VagoorJRG [PC] (C4:2 were connected to 220 W bis 2 M schenganga/INI) and rest of the elements were connected to 220 W bis Kishenganga/INI). 11 M Kishenganga/INI. 11 M Kishenganganga/INI. 11 M Kishengang	1) 2201V Bus 2 at Kishenganga(NH) 2) 2201V Kishenganga(NH)-Ginia(PD) (PG) CK-1 3) 110 MV Kishenganga(NH)-Wagoora(PG) (PG) CK-2 4) 220 KV Kishenganga(NH)-Wagoora(PG)
8	GD-1	Haryana	09-Jun-2023 21:09	09-Jun-2023 22:35	1:26	0	370	0.000	0.551	52604	67125	I) 220/132XV Mohana/Haryana) has double main bus scheme at both 220KV & 132KV level. There are six 220KV lines connected at 220KV level i.e., 220KV Mohana-Sampal (PG) D/C, 220KV Mohana-Sampal PG) D/C, 220KV Mohana-Sampal PG,	11 220 KV Mohawa(IVI) Sonipat(PC) (IVIPNL) Cit-1 21 220 KV Mohawa(IVI) Sonipat(PC) (IVIPNL) Cit-2 21 220KV MohawaSampla cit-1 4) 220KV MohawaSampla cit-2
9	GI-2	Uttar Pradesh	10-Jun-2023 16:15	10-Jun-2023 16:51	0:36	o	130	0.000	0.202	55771	64245	I) 400/132kV Mau(UP) has double main transfer bus scheme at both 400kV & 132kV level. During antecedent condition, 400/132 kV 200 MVA ICT 1 & 2 at Mau(UP) were carrying approx. 70MW & 400/132 kV 200 MVA ICT 1 & 3 vas carrying "86MW. Bus at 132kV ide were numing in split mode. ICT-1 & 2 vere connected to one bus and ICT-1 was at another bus. B) as reported, at ICIS in son 10h. hus, B) phase CT at Mau end of 132kV Mau-Semari Jamaipur ckt 2 damaged. On this fault, 400/132 kV 200 MVA ICT 1 & 2 at Mau(UP) both tripped on over current earth fault protection operation. At the same time, PN protection also operated in ICT-1. B) as per PMU as DN, v Phy hate to earth tault with diseled elearnee CT 20mes; to bothered. IV) As per DM of 400/132kV ICT-2 at Mau(UP), trip signal is not high. SIDC UP has been communicated regarding the same and to review the protection operation details. V) As per 5CADA, Change in demand of approx. 130MW is observed in UP control area. V) As reported, damaged Fah CT has been replaced on 11m June 2023 and testing of ICT-1 w.r.I. PRV protection operation has also been done, testing results were found ok and ICT-1 was charged at 18.24hrs on 13th Jun23.	1) 1328/ Mau-Semari Jamalyur ddi-2 2) 400/132 W 200 MWA (CT 1 at Nau(UP) 3) 400/132 W 200 MWA (CT 2 at Mau(UP)
10	GI-2	Punjab	10-Jun-2023 11:32	10-Jun-2023 12:23	0:51	0	385	0.000	0.563	60081	68344	I) 400/220KV Patiala/PG) has double main transfer bus scheme at 220kV level. During antecodent condition, 400/220 kV 315 MVA KT 1 & 2 and 400/220 kV 500 MVA KT 3 at Fatial/PG) was complete was in closed condition. II) A reported, 2004 Work 1 3 at Fatial/PG) was under planned outge which was received at 11:19 hrs of 100.5203. At 112:3, recoint 2004 Work 13 at Fatial/PG) estimation of the planned outge which was received at 11:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:19 hrs, at 112:4, recoint 100.5203. At 112:3, recoint 2004 Work 14:2, recoint 2004 Work 14:19 hrs of 100.5203. At 112:3, recoint 2004 Work 14:2, recoint 2004 Work 14:4, recoint 14:1,	1) 2200V Bus 1 at Patiala[PG] 2) 2200V Bus 2 at Patiala[PG] 2) 220V Patiala[PG]Abbonal[85] [PSTL] (K-1 4) 220 V Patiala[PG]Abbonal[85] [PSTL] (K-2 4) 220 V Patiala[PG]Abbana][85] [PSTL] (CH-1 6) 220 V Patiala[PG]-habbana][85] [PSTL] (CH-2 7) 220 V Patiala[PG]-habbana][85] [PSTL] (CH-2 8] 400/2200V 3250WA (CT-2 H Patiala[PG) 30] 400/2200V 500MVA (CT-2 H Patiala[PG) 30] 400/2200V 500MVA (CT-3 at Patiala[PG)
11	GD-1	Himachal Pradesh, Haryana	13-Jun-2023 18:52	13-Jun-2023 20:37	1:45	0	110	0.000	0.179	49760	61331	I) 220/132V Prijore(HP) has double main bus scheme at both 220kV & 132VV level. During antecedent condition, power was coming through 220kV Panchula(HR) – Prijore(HR) Ct 1 & 2. Tom Panchula) and to Prijore and and power was going out from Prijore and to Badd end through 220kV Badd(HP) – Prijore(HR) Ct 1 & 3. Tom Panchula) end to Tripice and and power was going out from Prijore and to Badd end through 220kV Badd(HP) – Prijore(HR) Ct 1 & 3. Tom Panchula) end to Tripice end and power was being feel to the 132kV feeders at Prijore through 220kKV 200 MVA (F-1 & 3. at Badd(HP) – Prijore(HR) Ct 1 & 8. Zhom Panchula) How Through 220kV Badd(HP) – Prijore(HR) Ct 1 & 8. Zhom Panchula) Heading the compared for the tripice power flow through 220kV Badd(HP) – Prijore(HR) Ct 1 & 8. Zhom Panchula) Hoped form Prijore end for stdrp promode. (HP) – Prijore(HR) Ct 1 & 8. Zhom Panchula) Hoped form Prijore end for stdrp promode. (HP) – Prijore(HR) Ct 1 & 8. Zhom Panchula) Hoped form Prijore end for stdrp promode. (HP) – Prijore(HR) Ct 1 & 8. Zhom Panchula) Hoped form Prijore end for stdrp promode. (HP) – Prijore(HR) Ct 1 = 2. ZDKV Badd(HP) – Prijore(HR) Ct 1 = 1. Zhou Panchula) Heading HP – Ripore(HR) Ct 1 = 1. Zhou Panchula) Hoped form Prijore end for stdrp promode. (HP) – Prijore(HR) Ct 1 = 2. ZDKV Badd(HP) – Prijore(HR) Ct 1 = 1. Zhou Panchula) High Chan Panch	1] 2200/ Panchkula(HB) - Prigore(HB) CK 1 2] 2200/ Panchkula(HB) - Prigore(HB) CK 2 3] 2200/ Badd(HP) - Prigore(HB) CK 1 4] 2200/ Badd(HP) - Prigore(HB) CK 2
12	GD-1	Punjab	14-Jun-2023 20:08	15-Jun-2023 00:39	4:31	0	115	0.000	0.180	52021	63848	I) 220/66/V Khasa(PS) has single bus scheme at both 220KV & 66/V level. During antecedent condition, power was coming through 220 KV Amritsar(PS); Masaa(PS) (PSTCI), Clst. 18.2 from Amritsar end to Xhasa end and power was going out from Khasa end to Chogawan and Civil lines. Amritsar end through 220 KV Chogawan(PS) - Khasa(PS) (PSTCI) Cl et and 220 KV Khasa[PS)-Civil lines. Amritsar (PS) (PSTCI) At respectively, Remaining power was being field to the 6KV feeders at through 220 KV Chogawan(PS) - Athssal(PS) (PSTCI) At and 220 KV Khasa[PS)-Civil lines. Amritsar (PS) (PSTCI) cl et respectively, Remaining power was being field to the 6KV feeders at through 220 KV Chogawan(PS) - Athssal(PS) (PSTCI) cl et and 220 KV Khasa[PS)-Civil lines. Amritsar (PS) (PSTCI) cl et figle 50 km / 20 KV Khasa[PS) (PSTCI) cl et and 220 KV Khasa[PS) (PSTCI) (PSTC	1] 220 KV Chogawan(PS) «Rhassa(PS) (PSTCL) ckt 2] 220 KV Absas(PS)-Cvil linet Amritasr (PS) (PSTCL) ckt 2] 220 KV Absas(PS)-(PShissa)(SS) (PSTCL) Ckt-1 4] 220 KV Amritsar(PG)-Khassa(PS) (PSTCL) Ckt-2

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	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	(MW)		
13	Gi-1	Punjab	18-Jun-2023 00:07	18-jun-2023 01:30	1:23	O	350	0.000	0.516	52638	67807	(1) 220/132/66KV Wadali(F)S) and 220/132/66KV Werpal(FS) has double main bus scheme at 220KV level. (1) A reported, at 0007hr, 220/132KV KT 1 & & at Wadal/FS) tripped (exact reason of tripping yet level. (220/132KV CT) 4. & S at Verpal(FS) along with all the 133KV feeders at Verpal(FS) alon tripped and 132KV buses at Verpal(FS) became dead. (1) A per SCADA (5, 123KV Wadal-Batt ds 1-1, 2 & 3, 132KV Wadal-Hargo ds 1-1 and 132/11KV CT 2 at Wadal/FS) alon tripped during the same time. (1) A per SCADA (5, 123KV Wadal-Batt ds 1-1, 2 & 3, 132KV LS 1-1 and 132/11KV CT 2 at Wadal/FS) alon tripped during the same time. (1) A per SCADA (5, 123KV Wadal-Batt ds 1-1, 2 & 3, 132KV LS 1-1 and 132/11KV CT 2 at Wadal/FS) alon tripped during the same time. (1) A per formation received from SCAC Z, 20KV Verpal(FS)Amritist(FG) (st 1. A per SCADA, during the same time. (2) A per liftormation received from TCC2, 20KV Verpal(FS)Amritist(FG) (st 1. A per SCADA, during the same time. (3) A per liftormation received from TCC2, 20KV Verpal(FS)Amritist(FG) (st 1. Tripped only from Verpal(FS) end and line remained darged from Amritist(FG) end. (3) A per liftormation received from TCC2, 20KV Verpal(FS)Amritist(FG) (st 1. tripped only from Verpal(FS) end and line remained darged from Amritist(FG) end. (3) A per liftormation received from TCC2, 20KV Verpal(FS)Amritist(FG) (st 1. tripped only from Verpal(FS) end and line remained darged from Amritist(FG) (end) (st 2. R. P) phase to earth full thermation received from TCC2, 20KV Verpal(FS)Amritist(FG) (end) (st 2. R. P) phase to earth full time that the same time. (3) A per liftormation received from TCC2, 20KV Verpal(FS)Amritist(FG) (end) (st 2. R. P) phase to earth full thermation is observed at 00.07hrs and R-N phase to earth full with delayed clearance of 420msec is observed at 00.07hrs and R-N phase to earth full with delayed clearance of 420msec is observed at 0.07hrs and R-N phase to earth	1) 220/1324V (CT 1 at Wadala(PS) 2) 220/1324V (CT 4 at Wadala(PS) 3) 220/1324V (CT 4 at Wadala(PS) 4) 220/1324V (CT 4 at Wepal(PS) 6) 220/1324V (CT 4 at Wepal(PS) 6) 220/1324V (CT 4 at Wepal(PS) 6) 220/124V (CT 4 at Wepal(PS) 6) 220/124V (CT 4 at Wepal(PS) 7) 220/124V (CT 4 at Wepal(PS) 7) 220/142V (CT 4 at Wepal(PS) 7) 220/142V (CT 4 at Wadala(PS) 7) 220/142V (CT 4 at Wepal(PS) 7) 220/14
14	GD-1	J&K	19-Jun-2023 08:28	19-Jun-2023 11:44	3:16	D	190	0.000	0.329	12580.51111	57677	I) During antecedent condition, active power loading of 220 KV Kishenpur (PG)-Barrig(XI (PDD JK) CK-1.8.2 was approx. 98MW each. II) As reported, at 08.20m; 220 KV Kishenpur (PG)-Barrig(XI (PDD JK) CK-1.8.2. tripped on B-XP phase foult from Barn end only. III) As reported, at 08.20m; 200 KV Barrig(XI (Stahenpur (PG) (Stat.1.8.2.1.5.1) KV (Barrig) (Stat.1.8.2.1) KV (Stat.1.8.2	1) 220 IVV Kishenpur(PG)-Barn(JK) (POD JK) CK-1 2) 220 IVV Kishenpur(PG)-Barn(JK) (POD JK) CK-2
15	GD-1	Rajasthan	20-lun-2023 05:21	20-Jun-2023 07:36	2:15	O	280	0.000	0.480	13178.68333	58276	I) 400):20W Batangarh (Paj) has double nuin & transfer bus scheme at 220W side. II) During an transferent condition, 400):225 W 315 MVA ICT 2 at Batangarh (Ra) of toxice and created B-4 phase to earth bus fault on 220W batangarh (Ra) (Ra) (Ra) (Ra) (Ra) (Ra) (Ra) (Ra)	1) 400/220 kV 315 MVA (CT 2 at Ratangarh(R5) 2) 220 VV Ratangarh(R5)-Siark(P6) (PG) Ck -1 3) 220 VV Ratangarh-Badru (R0) (Sk - 4) 220 VV Ratangarh-Badru (R0) (Sk -1 2) 220 VV Ratangarh-Ratangarh 220 (Na) (Sk -1 6) 220 VV Ratangarh-Khetri (Raj) Ck -1
16	GD-1	J&K	25-lun-2023 16:36	25-lun-2023 18:25	1:49	0	230	0.000	0.440	7191.232639	52294	(I) During antecedent condition, 220 KV MiriBazr(PDD) NewWanpoh(PG) (PDD JI) Ck-1, 220kV Pampore- MiriBazar D/C were not in service. 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-1 were not in service. 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-1 were not in service. 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2 to the 23th June 2023 for routine maintenance of the line. Active power loading of 20 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2 to tripped on R-M fault in line. Not power loading of 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2 tripped on R-M fault in line. Not to tripping of 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2 tripped on R-M fault in line. Not to tripping of 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2 tripping to MiriBazra Sk got affected. Not power loading of 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2 tripping to MiriBazra Sk got affected. Not power loading of 220 KV MiriBazr(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2 tripping to MiriBazra Sk got affected. Not power load box of papers. 230KW occurred in JiKs control area. Not power load box of papers. 230KW occurred in JiKs control area. Not power load box of papers. 230KW occurred in JiKs control area. Not power load box of papers. 230KW occurred in JiKs control area. Not power load box of papers. 230KW occurred in JiKs control area. Not power load box of papers. 230KW occurred in JiKs control area. Not power load box of papers. 230KW occurred in JiKs control area. Not power load of JiTzhiwn, SOWM load wer stedeed by the Jimging 220K Pampore- Mirbazar D/C and complete load of Mirbazar restore at JB-25 hrs with the charging of 220 KV MirBazar(PDD)-NewWanpoh(PG) (PDD JIC) Ck-2.	1) 220 KV Mir Bazar(POD)-HewWanpoh(PG) (PGD JK) Cik-2
17	GD-1	J&K	26-Jun-2023 14:56	26-Jun-2023 17:56	3:00	0	225	0.000	0.369	54411	61047	(I) During antecedent condition, active power loading of 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+1.8.2 was approx. 112MV each. Both the circuit are on same tower and line length is 35km. (I) Jarreported, at JLSG/m, 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+2 topped on R+7 phase to phase fault. Fault currents were In="GMA 8.jk="34k and fault distance was "20km from Kishenpur end. At the same time, 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 also tripped. Fault distance "32km from Kishenpur end at the same time, 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 also tripped. Fault distance "32km from Kishenpur end at the same time, 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 tripped on R+7 data in 2-1 from Kishenpur end instantanceus) and 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 tripped on R+7 data in 2-2 (TOK Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 tripped on R+7 data in 2-2 (TOK Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 tripped on R+7 data in 2-2 (TOK Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 tripped on R+7 data in 2-2 (TOK Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 tripped on R+7 data in 2-2 (TOK Kishenpur/PG)-Barn(JK) (PDD JK) CK+1 also tripped at 20-38hrs on phase to earth fault and revived back at 21-28hrs, 20 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+2 was taken under shutdown and both the circuits revived at 04-20 krs.	1) 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) CK-1 2) 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) CK-2
18	GI-2	Uttar Pradesh	26-Jun-2023 06:37	26-Jun-2023 08:37	2:00	O	O	0.000	0.000	44268	49165	1) 400/220KV Shahjahangur (PG) has double main transfer bus scheme at 220KV level. During antecedent condition, 400/220 KV 500 MVA KT 1 & 2 at Shahjahangur (PG) were carrying approx. 40WW and 36MW respectively. Bus coupler was in closed condition. III) As reported, at 06:37 hrs, bus far protection of 220KV Bin-2 operated on RA hus fluid and dements connected to bus-2 Le, 400/220 KV 500 MVA KT 1 & 5 ShahjahangrUF() Sh	1) 220(V, But 2 at: Shahjahanpur(PG) 2) 400(22 0X 950 NV) KC 1 at Shahjahanpur(PG) 3) 220 VX Asiyu (PJ-Shahjahanpur(PG) (JP) Ck-2 4) 220 KV Shahjahanpur(PG)-Shahjahanpur(UP) (UP) Ck-1

									Details of	Grid Events d	uring the M	lonth of June 2023 in Northern Region	जिड-इंडिया GRID-INDIA
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of	Time and Date of Restoration	Duration	Loss of generatio the G	n / loss of load during rid Event	% Loss of generation Antecedent Genera Regional Grid durin	n / loss of load w.r.t ation/Load in the ng the Grid Event	Antecedent Genera Regional	ntion/Load in the Grid*	Brief details of the even (are fault and post fault system condition)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)		Grid Event		(HH:MM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	n Antecedent Load (MW)		
19	GD-1	Punjab	29-Jun 2023 21:07	29-tun 2023 22:50	1:43	o	995	0.000	1.512	47358	65805	I) As reported, at 21:07hrs, earth wire of 220 KV Moga/PG)-Mehai-Kalan(PS) (PSTCI). Cls-1 & 2 snapped between Moga 5/s Gantry and tower location no. 1. This led to bus bus protection operation of 220KV bus -1 at Moga/PG) due to foult in 220 KV Moga/PG)-Mehai-Kalan(PS) (PSTCI). Cls-2. Due to this, 220 KV Moga/PG)-Mogar/PG)-Mehai-Kalan(PS) (PSTCI). Cls-1: Context at 220KV Bus 2) 1900 due to 0 Trevelved at Moga/PG) in due to this, 220 KV Moga/PG)-Mehai-Kalan(PS) (PSTCI). Cls-1: Contexted at 220KV Bus 2) 1900 due to 0 Trevelved at Moga/PG) in due to the meter to the start of the start Bus 20 KV Moga/PG)-Mehai-Kalan(PS) (PSTCI). Cls-1: Contexted at 220KV Bus 2) 1900 due to 0 Trevelved at Moga/PG) in due to the start Bus 20 KV Moga/PG)-Altwa/PS) (PSTCI). Cls-1: Contexted at 220KV Bus 2) 1900 due to 0 Trevelved at Moga/PG) end. At the same time, 220 KV Moga/PG)-Altwa/PS) (PSTCI). Cls-1: Contexted at 220KV Bus 2) 1900 due to 10 Trevelved at Moga/PG) end. At the same time, 720 KV Moga/PG)-Altwa/PG) end. At the same time, 720 KV Moga/PG) (PSTCI). Cls-1: A fault distance was 0.5m from Moga/PG) end. At the same time, 740 Adube plasta to earth fault (Te-32 Adb), Var-1: All Why this full destance time of 95ms is between in 220 KV Moga/PG) (PstCI). Variant PST-840 adube plasta to earth fault (Te-32 Cdb), Var-1: All Why this full destance time of 95ms is between in 220 KV Moga/PG) (PstCI). Variant PST-840 adube plasta to earth fault (Te-32 Cdb), Var-1: All Why this full destance time of 95ms closered in 220 KV Moga/PG) (PstCI). Variant PST-840 adube plasta to earth fault (Te-32 Cdb), Variant PST-840 adube plasta to earth at the same time, Reason yet to be shared).	1) 220 KV Mogu/PGI-Mehai- Kalan/PSI (PSTCL) CK-1 2) 220 KV Mogu/PGI-Mehai- Kalan/PSI (PSTCL) CK-2 3) 220 KV MoguPGi-Alipwal/PSI (PSTCL) CK-3 4) 220 KV MoguPGi-Magan/PSI (PSTCL) CK-4 5) 400/220 KV 500 MVA (CT 1 at MoguPG) 6) 400/220 KV 315 MVA (CT 4 at MoguPG)

							Details (of Grid E	vents dui	ring the Mon	th of Ju	ne 2023 in Western 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 gener load during t	ration / loss of he Grid Event	% Loss of gene load w.r.t A Generation/ Regional Gri Grid I	eration / loss of Antecedent Load in the d during the Event	Antecedent Genera the Regional	ttion/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)		
1	GI-2	WR	04-Jun-23 14:32	04-Jun-23 15:17	0:45	-	81	-	0.002	63854	53546	At 14:32 Hrs/04.06.2023, 400 kV Lonikhand-Pune tripped due to wave trap blast at Lonikhand end and 400 kV Lonikhand-Lonikhand-II 1 tripped due to LA blast at Lonikhand end. At the same time 400 kV Lonikhand-Chakan and 400 kV Karjat-Lonikhand-II 1&2 also tripped due to reverse zone protection and Overvoltage ST1 protection respectively.Load loss of 81 MW occured due to the event.	Tripping of 1. 400 kV Lonikhand-Pune 2. 400 kV Lonikhand-Lonikhand-II 1&2 3. 400 kV Lonikhand-Chakan 4. 400 kV Karjat-Lonikhand-II 1&2
2	GI-2	WR	04-Jun-23 15:20	04-Jun-23 19:48	4:28	1260	-	0.020	-	64330	52843	At 15:20 hrs/04.06.2023, multiple elements at 765/400kV Kotra PS tripped due to multiple equipment failures on the account of heavy rains and thunderstorm. Total Generation loss of 1260 MW occurred due to tripping of units at SKS (2*300 MW) (due to loss of evacuation path), REGL (1*600 MW) and DB Power (1*600 MW) (due to generator protection). 765/400kV ICT-2,3 & 4 and 765kV BR-2 tripped on differential protection. 765kV Kotra-Champa D/C, 400kV Kotra- SKS D/C, 400kV Kotra-Lara 2 & 400kV Kotra-REGL 2 tripped on distance protection operation.	Tripping of 1. 765 kV Kotra-Champa 1&2 2. 765 kV Kotra-Bus Reactor 2 3. 765/400 kV Kotra-ICT 2,3&4 4. 400 kV Kotra- Lara 2 5. 400 kV Kotra- REGL 2 6. 400 kV Kotra- SKS 1&2 7. SKS Unit 1,2 (300 MW each) 8. REGL unit 1 (600 MW) 9. DB Power Unit 1(600 MW)
3	Gl-1	WR	11-Jun-23 14:48	11-Jun-23 15:28	0:40	-	-	-	-	70128	61843	At 14:48 Hrs/11-06-2023, 220 kV Borivali- Tarapur line tripped on R-E fault from Tarapur end. As the fault was not cleared from Borivali end, 220 kV Borivali Bus 1 and all the elements connected to it tripped on LBB protection operation. There was no load loss due to the event.	Tripping of 1.220kV Borivali-Tarapur 2.220kV Borivali - Boisar 3.220kV Borivali - Kharghar 4.220kV Borivali - Bhandup 5.220kV Borivali - Adani Borivali 1 7.220kV Borivali - Adani Goria 1 8.220kV Borivali - Adani Aarey 2
4	GI-2	WR	13-Jun-23 09:46	13-Jun-23 10:13	0:27	-	-	-	-	70427	60866	At 09:46 Hrs / 13-06-2023, 400kV Padghe Nagothane 1 tripped on Y-B Fault. At the same time R- phase CT (towards Bus side) of 400 kV Dabhol-Nagothane 1 failed & resulted in Bus bar protection operation and tripping of all connected feeders along with Bus coupler at 400 kV Nagothane. Load loss of 160 MW occurred due to LTS operation at Wadhkal region due to the event.	Tripping of 1. 400 kV Nagothane-Padghe 1&2 2. 400 kV Nagothane-Buses 1&2 3. 400 kV Dabhol-Nagothane 1&2 4. 400/220 kV Nagothane-ICTs 1,2&3
5	GI-1	WR	13-Jun-23 13:30	13-Jun-23 16:16	2:46	280	-	0.004	-	71471	61063	At 13:30 Hrs / 13-06-2023, 220 kV Ratadiya-Bhuj 2 conductor snapped from the B-Phase CT side jumper clamp and touched gantry of 220kV Ratadiya Bus 1. This resulted in Bus bar protection operation and tripping of the line along with 220/33 kV Ratadiya-ICTs 2&4. As Bus coupler was kept in open condition, Generation loss of 280 MW occured at Ratadiya (AGEMPL) wind power station.	Tripping of 1. 220 kV Ratadiya-Bhuj 2 2. 220 kV Ratadiya Bus 1 3. 220/33 kV Ratadiya ICTs 2&4
6	GD-1	WR	13-Jun-23 17:46	13-Jun-23 18:17	0:31	-	170	-	0.003	72782	59196	At 17:46 Hrs / 13-06-2023, 220 kV Kala – New Kharadpada 1 tripped on R-E fault. 220 kV Kala- New Kharadpada 1 was already under planned shutdown. 220 kV Bus Coupler at 220 kV Kharadpada was in open condition and the load on 220 kV Kharadpada Bus 2 was fed radially from Kala s/s through New Kharadpada. With the tripping of 220 kV Kala – New Kharadpada 2, 220 kV New Kharadpada substation went dark. 220 kV New Kharadpada-Kharadpada D/C became dead and H/T later by site. Load loss of around 170 MW is occured due to the event.	Tripping of 1. 220 kV Kala-New Kharadpada 1 2. 220 kV Kharadpada-New Kharadpada 1&2 3. 220 kV New Kharadpada-Reliance 1&2

							Details	of Grid E	vents dur	ring the Mon	th of Ju	ne 2023 in Western Region	जिड-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 gene load during t	ration / loss of the Grid Event	% Loss of generation load w.r.t / Generation Regional Grid	eration / loss of 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)		
7	GD-1	WR	15-Jun-23 16:36	15-Jun-23 18:03	1:27	-	-	-	-	69518	58686	At 16:36 Hrs / 15-06-2023, 220 kV Bachhau-Bhuvad 1&2 tripped at 16:36 hrs on B phase to earth fault. Prior to the event, WTGs were manually stopped by site due to high wind speed because of Biparjoy cyclone. No generation was present at Bhuvad (ReNew) wind station during the event.	Tripping of 1. 220 kV Bachhau-Bhuvad 1&2 2. 220/33 kV Bhuvad-ICT 1&2
8	GD-1	WR	15-Jun-23 18:49	15-Jun-23 21:15	2:26	5	-	0.000	-	68762	56724	At 18:49 Hrs / 15-06-2023, 220 kV Bhuj-Dayapar 1 tripped on B phase to earth fault. Generation loss of 5 MW occured at 220 kV Dayapar (INOX) wind station due to loss of evacuation path.	Tripping of 1. 220 kV Bhuj-Dayapar 1
9	GD-1	WR	16-Jun-23 01:23	16-Jun-23 06:19	4:56	-	-	-	-	69469	57709	At 01:23 Hrs / 16-06-2023, 220 kV Bhuj-Naranpar 2 tripped on B phase to earth fault. Prior to the event, WTGs were auto cut out due to high wind speed because of Biparjoy cyclone. No generation was present at 220 kV Naranpar (GIWEL-III) wind power station during the event	Tripping of 1. 220 kV Bhuj-Naranpar 1
10	GD-1	WR	16-Jun-23 06:23	16-Jun-23 17:59	11:36	-	-	-	-	66883	56556	At 06:23 Hrs / 16-06-2023, 220 kV Bhuj-Gadhsisa 1 tripped on Y-B phase to phase fault due to broken wave trap isolator pad clamp. Prior to the event, WTGs were manually stopped by site due to high wind speed because of Biparjoy cyclone. No generation was present at Gadhsisa (ReNew AP2) wind power station during the event	Tripping of 1. 220 kV Bhuj-Gadhsisa 1
11	GD-1	WR	16-Jun-23 08:05	16-Jun-23 09:58	1:53	-	-	-	-	62256	54794	At 08:05 Hrs / 16-06-2023, 220 kV Jamkhambaliya-Khakharda 1 tripped on vector surge protection operation due to Biparjoy cyclone effect. Prior to the event, WTGs were auto cut out due to high wind speed because of Biparjoy cyclone. No generation was present at Khakharda (Apraava) wind power station during the event	Tripping of 1. 220 kV Jamkhambaliya-Khakharda 1
12	GD-1	WR	16-Jun-23 09:22	16-Jun-23 12:07	2:45	-	-	-	-	62005	55432	At 09:22 Hrs / 16-06-2023, 220 kV Bachhau-Ostro 1 tripped on B phase to earth fault.At the same time 220 kV Bachhau-Ostro 1 also tripped. Prior to the event, WTGs were out due to high wind speed because of Biparjoy cyclone. No generation was present at Ostro (ReNew) wind power station during the event	Tripping of 1. 220 kV Bachhau-Ostro 1&2
13	GD-1	WR	16-Jun-23 10:23	16-Jun-23 17:01	6:38	-	-	-	-	60256	56252	At 10:23 Hrs / 16-06-2023, 220 kV Jamkhambaliya-Khakharda 1 tripped on vector surge protection operation due to Biparjoy cyclone effect. Prior to the event, WTGs were auto cut out due to high wind speed because of Biparjoy cyclone. No generation was present at Khakharda (Apraava) wind power station during the event	Tripping of 1. 220 kV Jamkhambaliya-Khakharda 1
14	GD-1	WR	16-Jun-23 11:11	16-Jun-23 11:46	0:35	-	-	-	-	60024	55917	At 11:09 Hrs / 16-06-2023, 765/400 kV Lakadia-ICT 1 tripped on DC earth fault.Prior to the event, 765/400 kV Lakadia-ICT 2 tripped at 06:54 hrs / 16-06-2023 on Buchholz relay operation. With the tripping of these 765/400 kV Lakadia ICTs, 400 kV Jamkhambaliya was radially connected to 400 kV Bachhau through 400 kV Lakadia. At 11:11 hrs, 400 kV Bachhau-Lakadia 1&2 tripped on B phase to earth fault and Y-B phase to phase fault respectively. With these tripping, 400 kV side of Lakadia & 400/220 kV Jamkhambaliya substations became dark. No generation loss was reported during the event.	Tripping of 1. 765/400 kV Lakadia-ICT 1 2. 400 kV Bachhau-Lakadia 1&2 3. 400 kV Jamkhambaliya-Lakadia 1&2 4. 220 kV Jamkhambaliya-Sidhpur 1
15	GD-1	WR	16-Jun-23 11:55	16-Jun-23 13:27	1:32	30.9	-	0.001	-	60768	54982	At 11:55 Hrs / 16-06-2023, 220 kV Bhuj-Nanavalka 1 tripped on R phase to earth fault due to insulation failure at Tower 10/15. Generation loss of 30.9 MW occured at 220 kV Nanavalka (Alfanar) wind power station due to loss of evacuation path.	Tripping of 1. 220 kV Bhuj-Nanavalka 1

							Details	of Grid E	vents du	ring the Mont	th of Ju	ne 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 gene load during t	ration / loss of he Grid Event	% Loss of generation load w.r.t A Generation Regional Grid	eration / loss of Antecedent 'Load in the id 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)		Extin			Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
16	GD-1	WR	16-Jun-23 14:15	16-Jun-23 19:06	4:51	-	-	-	-	61122	55386	At 14:15 Hrs / 16-06-2023, 220 kV Bhuj-Baranda 1 tripped on B phase to earth fault. Prior to the event, all WTGs tripped due to high wind speed because of Biparjoy cyclone. No generation was present at 220 kV Baranda (Avikaran) wind power station during the event	Tripping of 1. 220 kV Bhuj-Baranda 1
17	GD-1	WR	16-Jun-23 14:15	16-Jun-23 15:48	1:33	-	-	-	-	61122	55386	At 14:15 Hrs / 16-06-2023, 220 kV Bhuj-Kotda Madh 1 tripped due to false DT signal recieved at Kotda Madh end. Prior to the event, all WTGs tripped due to high wind speed because of Biparjoy cyclone. No generation was present at 220 kV Kotda Madh (Alfanar) wind station during the event	Tripping of 1. 220 kV Bhuj-Kotda Madh 1
18	GD-1	WR	16-Jun-23 17:20	16-Jun-23 23:08	5:48	20	-	0.000	-	64867	55094	At 17:20 Hrs / 16-06-2023, 220 kV Bhuj-Kotda Madh 1 tripped due to false DT signal recieved at Kotda Madh end. Generation loss of 20 MW occured at 220 kV Kotda Madh (Alfanar) wind power station due to loss of evacuation path.	Tripping of 1. 220 kV Bhuj-Kotda Madh 1
19	GD-1	WR	30-Jun-23 03:34	30-Jun-23 15:19	11:45	37.3	-	0.001	-	56406	46115	At 03:34 Hrs / 30-06-2023, 220 kV Bhuj-Kotda Madh 1 tripped on R phase to earth fault. Generation loss of 37.3 MW occurred at Kotda Madh (Alfanar) wind power plant due to the event,	Tripping of 1. 220 kV Bhuj-Kotda Madh 1
20	GI-1	WR	30-Jun-23 03:42	30-Jun-23 17:34	13:52	173.4	-	0.003	-	56244	46120	At 03:42 Hrs / 30-06-2023, 220 kV Bhuj-Ratadia 2 tripped on R phase to earth fault due to R phase suspension insulator got punctured at tower number 3. Generation loss of 173.4 MW occurred at Ratadia (AGEMPL) wind power plant due to the event,	Tripping of 1. 220 kV Bhuj-Ratadia 2 2. 220 kV Ratadiya Bus 1 3. 220/33kV Ratadiya ICT-2 & 4

								Details of	f Grid Ev	ents during th	e Month	of June 2023 in Southern Region	👔 गिड-इंडिया GRID-INDIA
Sl No.	Category of Grid Event (GI lor 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	Loss of generation during the G Generation Loss(MW)	n / loss of load Frid Event Load Loss (MW)	% Loss of gener load w.r.t A Generation/Load Grid during th % Generation Loss(MW)	ration / loss of ntecedent in the Regional e Grid Event % Load Loss (MW)	Antecedent Generati Regional (Antecedent Generation (MW)	on/Load in the Grid Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Name of Elements (Tripped/Manually opened)
1	GD-1	Kerala	03-Jun-23 23:36	03-Jun-23 23:41	5mins	0	377	0.00%	0.77%	46118	49250	Complete Outage of 220kV/110kV Ambalathara SS, 220kV/110kV/11kV Kanhirode SS, 220k/110kV/11kV Mylatty SS, 220kV/110kV/33kV Taliparamba SS, and 220kV/110kV Thalassery SS of KSEB: 220kV/110kV Ambalathara SS, 220kV/110kV/11kV Kanhirode SS, 220k/110kV/11kV Mylatty SS, 220kV/110kV Arabado Paraologu SS, and 220kV/110kV/11kV Kanhirode SS, 220kV/10kV Arabado Paraologu SV, and Paraologu SS, and 220kV/10kV Arabado Paraologu SS, and 220kV/10kV Kanhirode Arakode and 220kV Arabado Paraologu SS, 20kV/110kV/11kV Kanhirode SS, 220kV/110kV/11kV Kanhirode SS, 220kV/11	1, 220kV Kanhirode Areakode 2. 220kV Kanhirode Orkattery
2	GD-1	Tamil Nadu	06-Jun-23 10:59	06-Jun-23 12:03	1 hrs 4 mins	49.8	63	0.09%	0.12%	52462	53706	Complete Outage of 230kV/110kV/22kV Karaikudi_TN of TANTRANSCO: During antecedent conditions, all elements were connected to 230kV Bus-2 at 230kV/110kV/22kV Karaikudi_TN. As per the reports submitted, the triggering incident was an R-phase Bus side jumper cut in 230kV Karaikudi_TK Karaikudi_TG line-2. Immediately, 230kV Bus-2 BBP operated and all the elements connected to the Bus tripped. This resulted in a complete outage of 230kV/110kV/22kV Karaikudi_TN SS.	1. 230kV Karaikudi_TN Karaikudi_PG line-1&2 2. 230kV Karaikudi_TN Kavanur line-1,2,3&4 3. 230kV Karaikudi_TN Valuthur 4. 230kV Karaikudi_TN NT Kudy Line-1 4. 230kV/110kV Karaikudi_TN Transformer-1,2&3
3	GD-1	Karnataka	06-Jun-23 19:25	06-Jun-23 20:31	54mins	0	730	0.00%	1.49%	42379	48923	Tripping of 220kV Bus-2 of 400kV/220kV Hoody SS and Complete Outage of 220kV/66kV Exora SS, 220kV/66kV EDC SS, 220kV/66kV HAL SS, 220kV/66kV Vikas Tech Park SS and 220kV/66kV Sarjapur SS of KPTCL: As per the reports submitted, the triggering incident was B-N fault in 220kV Bus-2 at 400kV/220kV Hoody SS. This resulted in loss of power supply of 220kV Bus-2 of 400kV/220kV Hoody SS which further led to complete loss of supply at 20kV/66kV Exora SS, 220kV/66kV EDC SS, 220kV/66kV HAL SS, 220kV/66kV Vikas Tech Park SS, and 220kV/66kV Sarjapur SS.	1. 400kV/220kV Hoody ICT-2&3 2. All the lines connected to 220kV Hoody Bus-2
4	GD-1	Karnataka	07-Jun-23 09:47	07-Jun-23 10:22	35mins	0	135	0.00%	0.27%	52670	49457	Complete Outage of 220KV/66KV A'Halli SS of KPTCL: During antecedent conditions, 220KV Anthrasanahalli Nelamangala Line was under outage. The triggering incident was R-phase jumper cut in 220kV Anthrasanahally Tumkur Line-1 &2 and the lines tripped. Subsequently, the 220kV Anthrasanahally MRS Shimoga line was hand tripped inorder to control over loading. Tripping of all these lines resulted in complete outage of 220kV/66kV A'Halli SS.	1. 220kV Anthrasanahally Tumkur Line-1 &2 2. 220kV Anthrasanahally MRS Shimoga line
5	GD-1	Telangana	08-Jun-23 08:20	08-Jun-23 13:52	5hrs 32mins	0	0	0.00%	0.00%	48318	46256	Complete Outage of 400kV Yadadri TPS generating station of TSGENCO and 400kV/220kV Damarcherla SS of TSTRANSCO: 400kV Yadadri TPS generating station is radially connected to 400kV/220kV Damarcherla SS. As per the reports submitted, the triggering incident was OS usplyf lailure at 400kV/220kV Damarcherla SS. acuins all the CTDs of lines and transformers to operate and all these elements tripped. Tripping of all these lines and transformers at 400kV/220kV Damarcherla SS resulted in complete outage of 400kV Yadadri TPS generating station and 400kV/220kV Damarcherla SS.	1. 400kV Yadadri TPS Damarcherla line-1&2 2. 400kV/220kV Damarcherla ICT-1&2 3. 220kV Damrcherla Miryalaguda line-1&2
6	GD-1	Tamil Nadu	10-Jun-23 17:22	10-Jun-23 17:36	14mins	0	200	0.00%	0.43%	47635	46037	Complete Outage of 230kV/110kV/11kV Kadaperi SS of TANTRANSCO: 230kV/110kV/11kV Kadaperi SS was operating with single bus at 230kV level. As per the reports submitted, the triggering incident was B-N fault in 110kV Kadaperi SP Koil Feder and the fault was not cleared at Kadaperi end. Subsequently, remote ends of all 230kV lines connected to 230kV/110kV/11kV Kadaperi SS cleared the fault on the operation of DEF protection. Tripping of all 230kV lines resulted in a complete outage of 230kV/110kV/11kV Kadaperi SS.	1. 230kV Kadaperi Kalivendapattu 2. 230kV Kadaperi Sriperumbudur line-1&2 3. 230kV Kadaperi Panur 4. 230kV Kadaperi Porur 5. 230kV/110kV Kadaeri Auto transformer-1,2&3
7	GD-1	Karnataka	11-Jun-23 11:53	11-Jun-23 19:53	8hrs	830	0	1.65%	0.00%	50232	47451	Complete Outage of 400kV YTPS Generating Station of KPCL: During antecedent conditions, 400kV BPS YTPS line-1 was under LC. As per the repports submitted, the triggering incident was YB fault in 400kV YTPS BPS line-2. Tripping of the only connected line resulted in complete outage of 400kV YTPS generating station.	1. 400kV YTPS BPS line-2

								Details o	f Grid Ev	ents during th	e Month	of June 2023 in Southern Region	👔 गिर-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	Loss of generatic during the C	on / loss of load Grid Event	% Loss of gene load w.r.t A Generation/Load Grid during th	ration / loss of intecedent in the Regional te Grid Event	Antecedent Generati I Regional (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)		
8	GD-1	Tamil Nadu	11-Jun-23 11:49	11-Jun-23 12:32	43mins	35	47	0.07%	0.10%	50236	47454	Complete Outage of 230kV/110kV/22kV Karaikudi_TN of TANTRANSCO: During antecedent conditions, all elements were connected to 230kV Bus-1 at 230kV/110kV/22kV Karaikudi_TN. As per the reports submitted, the triggering incident was an R-phase Bus side jumper cut between 230kV Karaikud_TN Kavanur line-2 and 230kV Karaikud_TN Karaikudi_PG line-2 at 230kV Karaikudi_TN ad. Inmediately. 230kV Bus-1 BBP operated and all the elements connected to the bus tripped. This resulted in a complete outage of 230kV/110kV/22kV Karaikudi_TN SS.	1. 230kV Karaikudi_TN Karaikudi_PG line-1&2 2. 230kV Karaikudi_TN Kavanur line-1,2,3&4 3. 230kV Karaikudi_TN V Aluthur 4. 230kV Karaikudi_TN N T Kudy Line-1 4. 230kV/110kV Karaikudi_TN Transformer-1,2&3
9	GD-1	Karnataka	12-Jun-23 18:20	12-Jun-23 19:26	1hr 6mins	0	163	0.00%	0.35%	41479	46021	Complete Outage of 220kV/66kV Exora SS, 220kV/66kV Sarjapur SS and 220kV/66kV Vikas Tech Park SS of KPTCL : As per the reports submitted, the triggering incident was R-N fault in 220kV Hoody Malur line. Since the line is radially feeding 220kV/66kV Exora SS, 220kV/66kV Sarjapur SS and 220kV/66kV Vikas Tech park SS, tripping of this line resulted in complete outage of 220kV/66kV Exora SS, 220kV/66kV Sarjapur SS and 220kV/66kV Vikas Tech Park SS.	1. 220kV Hoody Malur
10	GD-1	Tamil Nadu	16-Jun-23 14:48	16-Jun-23 15:25	37mins	0	100	0.00%	0.17%	54400	57672	Complete Outage of 230kV/110kV Acharapakkam SS of TANTRANSCO: As per the reports submitted, the triggering incident was B-N fault in 230kV Acharapakkam Villupuram line. Subsequently, 230kV Acharapakkam Maps line tripped on over loading at MAPS end. Tripping of both lines resulted in complete outage of 230kV/110kV Acharapakkam SS.	1. 230kV Acharapakkam Villupuram 2. 230kV Aharapakkam MAPS
11	GI-2	Tamil Nadu	03-Jun-23 15:02	03-Jun-23 16:56	1hr 54mins	0	0	0.00%	0.00%	51769	56162	Tripping of 400kV Bus-1 of 400kV/230kV/110kV SVChatram SS of TANTRANSCO: As per the reports submitted, the triggering incident was LBB maloperation in 400kV Pondy SV Chatram line at SV Chatram end causing all the Main CBs connected to Bus-1 to trip. At the same time, due to non-availability of Tie CB, DT was sent to remote ends of 400kV Alamathy SVChatram Line-2 and 400kV NCTPS SV Chatram Line-2 and both these lines tripped.	1. 400kV Alamathy SV Chatram Line-2 2. 400kV NCTPS SV Chatram Line-2
12	GI-1	Tamil Nadu	05-Jun-23 17:53	05-Jun-23 18:23	30mins	275	o	0.63%	0.00%	43486	48350	Tripping of 230kV Bus of 230kV/110kV Sanganeri SS of TANTARNSCO: 230kV/110kV Sanganeri SS is operating with single bus configuration at 230kV level. As per the reports submitted, the triggering incident was LBB operation at Sanganeri end while hand-tripping 230kV kayathar Sanganeri. This resulted in tripping of all the elements connected to 230kV Bus. 110kV Bus was intact during the event.	1. 230kV Kayathar Sanganeri 2. 230kV Sanganeri SR Pudur 3. 230kV Sanganei Udayathur 4. 230kV Sanganeri Abishegapatty 5. 230kV/110kV Sanganeri Transformer-1&2
13	GI-1	Karnataka	10-Jun-23 16:10	10-Jun-23 19:15	3 hrs 5 mins	0	0	0.00%	0.00%	51007	51245	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. At 16:10hrs, 220kV Munirabad Lingapur line-1 was hand tripped, and subsequently, 220kV Munirabad Lingapur line-2 tripped at Munirabad end as the Bus Coupler tripped on over current 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-1&2
14	GI-1	Andhra Pradesh	17-Jun-23 13:43	17-Jun-23 14:54	1hr 11mins	0	o	0.00%	0.00%	53795	54721	Tripping of 220kV Bus-2 of 220kV Vizag Switching Station of APTRANSCO: As per the reports submitted, the triggering incident was Y-M fault in 220kV Bus-2 at 220kV Vizag Switching Station. Immediately, 220kV Bus-2 BBP operated and all the elements connected to 220kV Bus-2 tripped.	1. 400kV/220kV Gajuwaka ICT-1&2 2. 220kV VSS MRS line-1&2 3. 220kV VSS Kalpakka line-2

						Det	ails of (Grid Eve	nts durin	g the Montl	ı of June	e 2023 in Eastern Region	ि ग्रिड-इंडिया GRID-INDIA
SI No	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of gen of load dur Ev	eration / loss ing the Grid ⁄ent	% Loss of ge of load w.r. Generation Regional Ge Grid	eneration / loss .t Antecedent n/Load in the rid during the l Event	Antecedent Gener the Region	ration/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	Chandil	10.06.2023 17:00	16.06.2023 17:29	00:29	0	170	0.00%	0.71%	28176	23927	At 17:00 Hrs, 220 KV Ramchandrapur-Chandil tripped due to operation of LBB at Chandil 5/s leading to total supply failure at Chandil 5/s as 220 kV Ranchi-Chandil was under breakdown and 220 kV Santaldih-Chandil was switched off to limit loading of 220 kV Ramchandrapur-Chandil, which remained as the only source for Chandil. Around 170 MW load los occurred at Chandil.	220 kV Ramchandrapur-Chandil
2	GD-1	Lapanga, OPGC	10.06.2023 17:27	10.06.2023 19:09	01:42	580	0	2.03%	0.00%	28542	24579	At 16:21 Hrs, 400 kV Meramundali-Lapanga-1 tripped due to Y_N fault. Subsequently, at 16:25 Hrs, 400 kV Meramundali-Lapanga-2 tripped due to R_B_N fault. While taking charging attempt of 400 kV Meramundali-Lapanga 1 at 17:27 Hrs, 400 kV Side of Lapanga S/s and 400 kV OPGC S/s became dead. U#4 at OPGC also tripped due to loss of evacuation path. Generation loss of around 585 MW occurred at OPGC.	400 kV Meramundali-Lapanga D/c 400 kV Lapanga-Sterlite D/c 400 kV Jharsuguda-OPGC D/c 400/220 kV ICT-1&2 at Lapanga 660MW U#4 at OPGC
3	GD-1	Atri, Narendrapur	16.06.2023 10:40	16.06.2023 11:11	00:31	0	244	0.00%	0.94%	30517	26051	At 10:02 Hrs, HVDC Talcher-Kolar Pole-1 blocked, leading to high loading of 400 kV TSTPP-Meramundali D/c and 400 kV Meramundali-Mendhasal D/c. To control loading of these lines, load reconfiguration was being done in downstream at Narendrapur and Atri. Load of Aska, New Aska and Purushottampur which were fed from Bhanjnagar was shifted to Narendrapur. Entire load of Narendrapur and Atri was put on single line i.e., 220 kV Therubali-Narendrapur. This line got overloaded and tripped, leading to total supply failure at Narendrapur and Atri S/s. Total 244 MW load loss occurred at Narendrapur and Atri.	220 kV Therubali-Narendrapur 220 kV Narendrapur-Atri D/c 220 kV Atri-Infocity 220/132 kV ATR-1&2 of Narendrapur 220/132 kV ATR-1&2 at Atri 132 kV Atri-Samuka 132 kV Atri-Banki
4	GD-1	Teesta-3, Dikchu	28.06.2023 02:28	28.06.2023 02:56	00:28	1410	0	4.96%	0.00%	28420	21099	At 02:28 Hrs, Resistive fault struck 400 kV Rangpo-Teesta 3 and 400 kV Rangpo- Dikchu and both lines tripped. 400 kV Teesta 3-Dikchu also tripped at the same time. All six units at Teesta 3 and two units at Dikchu tripped leading to generation loss of around 1410 MW (Teesta 3: 1304 MW, Dikchu-106 MW)	400 kV Teesta 3-Dikchu 400 kV Rangpo-Dikchu 400 kV Teesta 3-Rangpo

							D	etails of Grid	Events dur	ing the Month	of June 2	2023 in North 1	Eastern Region	🕡 ग्रिड-इंडिया GRID-INDIA
F	Cat	egory of Grid		Time and Data of			Loss of gene	ration / loss of load	% Loss of genera	ntion / loss of load w.r.t	Antecedent G	eneration/Load in the		
s	l No.	Event (GI 1or 2/ D-1 to GD-5)	Affected Area	Time and Date of 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	Zuangtui, Saitual, Serchip, Vankal and Khawzawl areas of Mizoram Power System	06-Jun-23 00:10	06-Jun-23 00:53	0:43:00	0	21	0.00%	0.75%	1785	2811	Zuangtui, Saitual, Serchip, Vankal and Khawzawi areas of Mizoram Power System were connected with rest of NER grid through 132 kV Melriat(PG)-Zuangtui & 132 kV Zuangtui - Saitual lines. 132 kV Lunglei-Serchhip line was under shutdown to avoid overloading of 132 kV Akawi-Lungmual line. At 00:10 Hrs on 60.60.2023, 132 kV Melriat(PG)-Zuangtui & 132 kV Zuangtui - Saitual lines tripped. Due to tripping of these elements, Zuangtui, Saitual, Serchip, Vankal and Khawzawi areas of Mizoram Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Zuangtui, Saitual, Serchip, Vankal and Khawzawi areas of Mizoram Power	132 kV Melriat(PG) -Zuangtui & 132 kV Zuangtui - Saitual lines
													System by charging 132 kV Melriat-Zuangtui line at 00:53 Hrs on 06.06.2023.	
	2	GD 1	Zuangtui, Saitual, Serchip, Vankal and Khawzawi areas of Mizoram Power System	06-Jun-23 01:58	06-Jun-23 02:21	0:23:00	0	18	0.00%	0.62%	1767	2924	Zuangtui, Saituai, Serchip, Vankal and Khawzawi areas of Mizoram Power System were connected with rest of NER grid through 132 kV Meriat(PG)-Zuangtui line.132 kV Lunglei-Serchhip line was under shutdown to avoid overloading of 132 kV Akawi-Lungmual line. 132 kV Zuangtui - Saitual line was under tripped condition since 00:10 Hrs on 06.06.2023, 132kV Melriat(PG)-Zuangtui line tripped. Due to tripping of this element, Zuangtui, Saituai, Serchip, Vankal and Khawzawi areas of Mizoram Power System got separated from rest of NER Grid and Subsequently collapsed due to no source available in these areas. Power supply was extended to Zuangtui, Saituai, Serchip, Vankal and Khawzawi areas of Mizoram Power System by charging 132 kV Melriat-Zuangtui line t02:21 Hrs on 06.06.2023	132 kV Melriat(PG) -Zuangtui line
	3	GD 1	Zuangtui, Saitual, Serchip, Vankal and Khawzawl areas of Mizoram Power System	06-Jun-23 13:40	06-Jun-23 14:15	0:35:00	0	51	0.00%	1.70%	1707	3008	Zuangtui, Saitual, Serchip, Vankal and Khawzawl areas of Mizoram Power System were connected with rest of NER grid through 132 kV Meiriat(PG)-zuangtui line. 132 kV Lunglei-Serchhip line was under shutdown to avoid overloading of 132 kV Alzavi-Lungmual line.132 kV Zuangtui - Saitual line was under tripped condition since 00:10 Hrs on 06.06.2023. At 13:40 Hrs on 06.06.2023. At 13:40 Hrs on 06.06.2023. The Grid and subsequently collapsed due to no source available in these areas Power supply was extended to Zuangtui, Saitual, Serchip, Vankal and Khawzawl areas of Mizoram Power System by charging 132 kV Meiriat-Zuangtui, Saitual, Serchip, Vankal and Khawzawl areas of Mizoram Power System by charging 132 kV Meiriat-Zuangtui line at 14:15 Hrs on 60.60.2023	132 kV Melriat(PG) -Zuangtui line
	4	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	06-Jun-23 17:38	06-Jun-23 18:14	0:36:00	0	25	0.00%	0.82%	2217	3059	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with rest of NER grid through 132 kV Balipara-Tenga line. At 17:38 Hrs on 06.06.2023, 132 kV Balipara-Tenga line tripped. Due to tripping of this element, Tenga, Khup areas and Diskhi HEP of Arunachal Pradesh Power System got separated from rest of NER Grid and subsequently collapsed due to no source available 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 18:14 Hrs on 06:06.2023.	i 132 kV Balipara-Tenga line
	5	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	08-Jun-23 09:39	08-Jun-23 10:40	1:01:00	0	23	0.00%	0.78%	1857	2934	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with rest of NER grid through 132 kV Balipara-Tenga line. At 09:39 Hrs on 08.06.2023, 132 kV Balipara-Tenga line tripped. Due to tripping of this element, Tenga, Khup areas and Dikshi HEP 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 Balipara-Tenga line was declared faulty at 10:40 Hrs on 08.06.2023. Power supply was extended to Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara-Tenga line at 19:15 Hrs on 08.06.2023.	i 132 kV Balipara-Tenga line
	6	GD 1	Lumshnong area of Meghalaya Power System	08-Jun-23 15:24	08-Jun-23 15:32	0:08	0	13	0%	0%	1850	2929	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Khlehriat Lumshnong line. 132 kV Lumshnong-Panchgram line was under planned shutdown since 05:12 Hrs on 08.06.2023. At 15:24 Hrs on 08.06.2023, 132 kV Khliehriat-Lumshnong line tripped. Due to tripping of this element, Lumshnong area of Meghalaya 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 Lumshnong area of Meghalaya Power System by charging 132 kV Khleihriat- Lumshnong line at 15:32 Hrs on 08.06.2023.	t
	7	GD 1	Lumshnong area of Meghalaya Power System	08-Jun-23 15:48	08-Jun-23 16:10	0:22	0	10	0%	0%	1826	2898	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Khleihriat Lumshnong line. 132 kV Lumshnong-Panchgram line was under planned shutdown since 05:12 Hrs on 08.06.2023. At 15:48 Hrs on 08.06.2023, 132 kV Khliehriat-Lumshnong line tripped. Due to tripping of this element, Lumshnong area of Meghalaya 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 Lumshnong area of Meghalaya Power System by charging 132 kV Khleihriat- Lumshnong line at 16:10 Hrs on 08.06.2023.	t- 132 kV Khleihriat-Lumshnong line

						De	etails of Grid	Events dur	ing the Month	of June 2	023 in North	Eastern Region	शिड-इंडिया GRID-INDIA
	ategory of Grid		Time and Data of			Loss of gener	ation / loss of load	% Loss of genera	tion / loss of load w.r.t	Antecedent G	eneration/Load in the		
SI No.	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)	Generation Loss(MW)	Load Loss (MW)	Mitecedent Ger % 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, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with rest of NER grid through 132 kV Balipara-Tenga line.	
8	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	08-Jun-23 21:55	08-Jun-23 22:47	0:52:00	0	16	0.00%	0.50%	2135	3169	At 21:55 Hrs on 08.06.2023, 132 kV Bailpara-Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas and Dikshi HEP 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 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 22:47 Hrs on 08.06.2023.	
												Rokhia area of Tripura Power System was connected with rest of NER grid through 132 kV Monarchak - Rokhia and 132 kV Rokhia -Agartala D/C lines.	
9	GD 1	Rokhia area of Tripura Power System	09-Jun-23 05:40	09-Jun-23 06:24	0:44:00	19	8	1.12%	0.33%	1701	2392	At 05:40 Hrs on 09.06.2023, 132 KV Monarchak - Rokhia and 132 kV Rokhia -Agartala D/C lines tripped. Due to tripping of these elements, Rokhia area of Tripura Power System got separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	132 kV Monarchak - Rokhia and 132 kV Rokhia - Agartala D/C lines
												Power supply was extended to Rokhia area of Tripura Power System by charging 132 kV Rokhia - Agartala 1 line at 06:24 Hrs on 09.06.2023.	
												Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Daporijo- Ziro line.	
10	GD 1	Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	10-Jun-23 12:02	10-Jun-23 13:04	1:02:00	0	22	0.00%	0.88%	1748	2503	At 12:02 Hrs on 10.06.2023, 132 kV Daporijo - Ziro Line tripped. Due to tripping of this element, Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System got separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Daporijo - Ziro line
												Power supply was extended to the Daporizo, Basar, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Daporijo - Ziro line at 13:04 Hrs on 10.06.23.	
												New Umtru Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV EPIP II - New Umtru and 132 kV Umtru - New Umtru lines.	
11	GD 1	New Umtru Generating Station of Meghalaya Power System	12-Jun-23 22:00	12-Jun-23 22:23	0:23:00	36	0	1.30%	0.00%	2759	3036	At 22:00 Hrs on 12.06.2023, 132 kV EPIP II - New Umtru and 132 kV Umtru - New Umtru lines tripped. Due to tripping of these elements, New Umtru Generating Station of Meghalaya Power System got separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path.	132 kV EPIP II - New Umtru and 132 kV Umtru - New Umtru lines
												Power supply was extended to New Umtru Generating Station of Meghalaya Power System by charging 132 kV EPIP II - New Umtru line at 22:23 Hrs on 12:06:2023.	
												Leshka Generating Stations of Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka - Khieliniat D/C lines.	
12	GD 1	Leshka Generating Station of Meghalaya Power System	13-Jun-23 23:01	13-Jun-23 23:22	0:21	84	0	3%	0%	2941	2914	At 23:01 Hrs on 13.06.2023, 132 KV Myntdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these elements, Leshka Generating Stations of Meghalaya Power System got separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path.	132 kV Myntdu Leshka - Khleihriat D/C lines
												Power supply was extended to Leshka Generating Station of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khleihriat D/C lines at 23:22 Hrs on 13.06.2023.	
												Leshka Generating Stationof Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka - Khleihriat D/C lines.	
13	GD 1	Leshka Generating Station of Meghalaya Power System	14-Jun-23 03:08	14-Jun-23 03:25	0:17	42	0	2%	0%	2623	2311	At 03:08 Hrs on 14.06:2023, 132 VM Myndud Leshka- Khleihriat 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.	132 kV Myntdu Leshka - Khleihriat D/C lines
												Power supply was extended to Leshka Generating Station of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khielinriat 1 line at 03:25 Hrs on 14.06.2023.	
												Ningthoukhong, Churachandrapur and Thanlon areas of Manipur Power System were connected with rest of NER grid through 132 KV Lottak - Ningthoukhong, 132 KV Imphal (PG) - Ningthoukhong and 132 KV Ningthoukhong - Churachandpur JOC lines. 132 KV Kakhing - Churachandpur and 132 KV Elangkangpokpi - Churachandpur were under tripped condition since 12:21 Hrs on 08.06.2023.	
14	GD 1	Ningthoukhong, Churachandrapur and Thanlon areas of Manipur Power System	15-Jun-23 11:02	15-Jun-23 11:51	0:49	0	19	0%	1%	2281	1753	At 11:02 Hrs on 15.06.2023, 132 kV Loktak - Ningthoukhong, 132 kV Imphal (PG) - Ningthoukong and 132 kV Ningthoukhong - Churachandpur D/C lines tripped. Due to tripping of these elements, Ningthoukhong, Churachandrapur and Thanlon areas of Manjur Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Loktak - Ningthoukhong, 132 kV Imphal (PG) - Ningthoukong and 132 kV Ningthoukhong - Churachandpur D/C lines
												Power supply was extended to Ningthoukhong, Churachandrapur and Thanlon areas of Manipur Power System by charging 132 kV Imphal (PG) - Ningthoukong line at 11:51 Hrs on 15.06.2023.	

	Details of Grid Events during the Month of June 2023 in North Eastern Region													
	Category of Grid					Loss of generation / loss of load		% Loss of genera	tion / loss of load w.r.t	Antecedent G	eneration/Load in the			
SI No.	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)	during t Generation Loss(MW)	he Grid Event Load Loss (MW)	Antecedent Ger % Generation Loss(MW)	w Load Loss (MW)	Rep Antecedent Generation (MW)	zional Grid Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped	
15	GD 1	Ningthoukhong, Churachandrapur and Thanion areas of Manipur Power System	16-Jun-23 13:25	16-Jun-23 14:07	0:42	o	11	0%	1%	2878	1978	Ningthoukhong, Churachandrapur and Thanion areas of Manipur Power System were connected with rest of Ningthoukhong. 132 kV Loktak - Ningthoukhong, 132 kV Imphal (PG) - Ningthoukong and 132 kV Ningthoukhong - Churachandpur 1 lines. 132 kV Kakching - Churachandpur and 132 kV Elangkangpokpi - Churachandpur were under tripped condition since 12:21 krs on 08.06 2023. Also, 132 kV Ningthoukhong - Churachandpur 2 line was under outage since 11:02 Hrs on 15.06.2023 At 13:25 Hrs on 16.06.2023, 132 kV Loktak - Ningthoukhong, 132 kV Imphal (PG) - Ningthoukong and 132 kV Ningthoukhong - Churachandpur 1 lines tripped. Due to tripping of these elements, Ningthoukhong, Churachandpur and Thanion areas of Manipur Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Ningthoukhong, Churachandrapur and Thanion areas of Manipur Power	132 kV Loktak - Ningthoukhong, 132 kV Imphal (PG) - Ningthoukong and 132 kV Ningthoukhong - Churachandpur 1 lines	
16	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	17-Jun-23 07:07	17-Jun-23 08:01	0:54	16.7	32.7	1%	2%	2852	1676	System by charging 132 kV Imphal (PG) - Ningthoukong line at 14:07 Hrs on 16.06.2023. Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with rest of NER grid through 132 kV Balipara-Tenga line. At 07:07 Hrs on 17.06.2023, 132 kV Balipara-Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System got separated from rest of NER Grid and subsequently Collapsed use 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 08:01 Hrs on 17.06.2023.	132 kV Balipara-Tenga line	
17	GD 1	Monarchak and Rabindranagar areas of Tripura Power System	18-Jun-23 07:02	18-Jun-23 08:02	1:00	60	3	2%	0%	2733	1804	Monarchak and Rabindranagar areas of Tripura Power System were connected with rest of NER grid through 132 kV Monarchak - Rokhai line. 132 kV Monarchak - Udaipur line was under Planned Shutdown from 06:49 Hrs of 18.06.2023. At 07:02 Hrs on 18.06.2023, 132 kV Monarchak - Rokhia line tripped. Due to tripping of this element, Monarchak and Rabindranagar areas 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 and Rabindranagar areas of Tripura Power System by charging 132kV Monarchak-Udaipur line at 08:02 Hrs on 18.06.2023.	132 kV Monarchak - Rokhla line	
18	GD 1	Panchgram area of Assam Power System	18-Jun-23 08:06	18-Jun-23 08:23	0:17	0	15	0%	1%	2612	1899	Panchgram area of Assam Power System was connected with rest of NER grid through 132 kV Lumshnong - Panchgram, 132 kV Hailakandi - Panchgram and 132 kV Badarpur - Panchagram lines. 132 kV Srikona - Panchgram line was under outage due to tower collapse since 14.01.2019. At 08:06 Hrs on 18.06.2023, 132 kV Lumshnong - Panchgram, 132 kV Hailakandi - Panchgram and 132 kV Badarpur - Panchagram lines tripped. Due to tripping of these elements, Panchgram area of Assam 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 Panchgram area of Assam Power System by charging 132 kV Hailakandi - Panchgram line at 08:23 Hrs on 18.06.2023.	132 kV Lumshnong - Panchgram, 132 kV Hailakandi - Panchgram and 132 kV Badarpur - Panchagram lines	
19	GD 1	Dhaligaon, Barpeta, Jogighopa, Gosaigaon, IOCL load and part load of Bornagar areas of Assam Power System	18-Jun-23 12:29	18-Jun-23 12:35	0:06	0	55	0%	3%	2600	1867	Dhaligaon, Barpeta, Jogighopa, Gosaigaon, IOCL load 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 Nalbari- Barpeta line was under shutdown to avoid overloading of 132 kV BTPS-Dhaligaon D/C lines. Mol 132 kV Gosaigaon - Gauripur line was under shutdown to avoid overloading of 132 kV BTPS- Nalparon D/C lines. At 12:29 Hrs on 18.06.2023, 132 kV BTPS - Dhaligaon D/C lines tripped. Due to tripping of these elements, Dhaligaon, Barpeta, Jogighopa, Gosaigaon, IOCL load and part toad PB 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 extended to Dhaligaon, Barpeta, Jogighopa, Gosaigaon, IOCL load and part load of Bornagar areas of Assam Power System by charging 132 kV BTPS - Dhaligaon 1 line at 12:35 Hrs on 18.06.2023.	132 kV BTPS - Dhaligaon D/C lines	
20	GD 1	Panchgram area of Assam Power System	18-Jun-23 13:00	18-Jun-23 13:23	0:23	0	18	0%	1%	2633	1768	Panchgram area of Assam Power System was connected with rest of NER grid through 132 kV Lumshnong - Panchgram and 132 kV Hailakandi - Panchgram lines. 132 kV Badarpur-Panchgram line was under planned shutdown for installation, wiring, testing of distance relay. 132 kV Srikona - Panchgram was under outage due to tower collapse since 14.01.2019. At 13:00 Hrs on 18.06.2023, 132 kV Lumshnong - Panchgram and 132 kV Hailakandi - Panchgram lines tripped. Due to tripping of these elements, Panchgram area of Assam 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 Panchgram area of Assam Power System by charging 132 kV Hailakandi - Panchgram line at 13:23 Hrs on 18.06.2023.	132 KV Lumshnong - Panchgram and 132 kV Hallakandi - Panchgram lines	

	Details of Grid Events during the Month of June 2023 in North Eastern Region												
<u> </u>	Category of Grid Event Time and Date of							% Loss of general Antecedent Cor	tion / loss of load w.r.t peration/Load in the	Antecedent G	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
21	GD 1	Dhaligaon, Barpeta, Jogighopa, IOCL load and part load of Bornagar areas of Assam Power System	20-Jun-23 22:37	20-Jun-23 22:42	0:05	0	56	0%	2%	3058	2285	Dhaligaon, Barpeta, Jogighopa, IOCL load 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 Nalbari-Barpeta line was under shutdown to avoid overloading of 132 kV BTPS - Dhaligaon D/C lines. 132 kV Gosaigaon - Dhaligaon line was under shutdown to avoid overloading of 132 kV BTPS - Kokrajhar D/C lines. At 22:37 Hrs on 20.06.2023, 132 kV BTPS - Dhaligaon D/C lines tripped. Due to tripping of these elements, Dhaligaon, Barpeta, Jogitopao, DCL load 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 extended to Dhaligaon, Barpeta, Jogighopa, IOCL load and part load of Bornagar areas of Assam Power System by charging 132 kV BTPS - Dhaligaon 1 line at 22:42 Hrs on 20.06.2023.	132 kV BTPS - Dhaligaon D/C lines
22	GD 1	Rangia, Kamalpur, Amingaon, Naibari, part load of Sishugram, and part load of Bornagar areas of Assam Power System	21-Jun-23 04:59	21-Jun-23 05:29	0:30	0	68	0%	4%	3054	1711	Rangia, Kamalpur, Amingaon, Nalbari, part load of Sishugram, and part load of Bornagar areas of Assam Power System were connected with rest of NER grid through 220 kV Rangia – BTP5 1. B. 132 kV Rangia– Motonga lines. 200K Rangia – BTP5 2 line was declared faulty. 132 kV Rangia – Signating 132 kV Rangia – Tangia and 132 kV Amingaon – AllMS lines were under shutdown to avoid overloading of 220 kV Rangia – BTP5 2 D/C lines. 132 kV Naibari - Barpeta was under shutdown to avoid overloading of 132 kV BTP5 – Dhaligaon D/C lines. At 04:59 Hrs on 21.06.2023, 220 kV Rangia – BTP5 1. & 132 kV Rangia-Motonga lines tripped. Due to tripping of these elements, Rangia, Kamalpur, Amingaon, Nalbari, part load of Sishugram, 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 extended to Rangia, Kamalpur, Amingaon, Nalbari, part load of Sishugram, and part load of Bornagar areas of Assam Power System by charging 132 kV Rangia-Motonga line at 05:29 Hrs on 21.06.2023.	220 kV Rangia - BTPS 1 & 132 kV Rangia- Motonga lines
23	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	21-Jun-23 13:46	21-Jun-23 14:33	0:47	17	23	1%	1%	2622	2285	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with rest of NER grid through 132 kV Balipara - Tenga line. At 13:46 Hrs on 21.06.2023, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System got separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. 132 kV Balipara - Tenga line was declared faulty at 14:33 Hrs on 21.06.2023. Power supply was extended to Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 21:41 Hrs on 21.06.2023.	132 kV Balipara - Tenga line
24	GD 1	Dhaligaon, Barpeta, Jogighopa, Gossaigaon, IOCL Ioad, Bornagar and Nalbari areas of Assam Power System	21-Jun-23 21:06	21-Jun-23 21:12	0:06	0	135	0%	5%	3165	2833	Dhaligaon, Barpeta, Jogighopa, Gossaigaon, IOCL load, Bornagar and Nalbari areas of Assam Power System were connected with rest of NER grid through 132 kV BTPS - Dhaligaon D/C lines. 220 kV Rangia - BTPS D/C lines were under outage due to tower collapse at loc.no. 452, 132 kV Rangia-Nalbari, 132kV Rangia- Bornagar and 132kV Gossaigaon-Gauripur lines were under shutdown to avoid overloading of 132 kV BTPS-Dhaligaon D/C lines. At 21:06 Hrs on 21.06.2023, 132 kV BTPS - Dhaligaon D/C lines tripped. Due to tripping of these elements, Dhaligaon, Barpeta, Jogighopa,Gossaigaon, IOCL load, Bornagar and Nalbari 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 extended to Dhaligaon, Barpeta, Jogighopa,Gossaigaon, IOCL load, Bornagar and Nalbari areas of Assam Power System by charging 132 kV BTPS-Dhaligaon 1 line at 21:12 Hrs on 21.06.2023.	132 kV BTPS - Dhaligaon D/C lines
25	GD 1	Dhaligaon, Barpeta, Jogighopa, Gossaigaon, IOCL Ioad, Bornagar and Nalbari areas of Assam Power System	21-Jun-23 22:34	21-Jun-23 22:39	0:05	0	111	0%	4%	3150	2520	Dhaligaon, Barpeta, Jogighopa,Gossaigaon, IOCL load, Bornagar and Nalbari areas of Assam Power System were connected with rest of NER grid through 132 XV BTPS - Dhaligaon D/C lines. 220 kV Rangia - BTPS D/C lines were under outage due to tower collapse at loc. no. 452, 132 VK Rangia-Nalbari, 132 VK Rangia-Bornagar and 132 VK Gossaigaon-Gauripur lines were under shutdown to avoid overloading of 132 kV BTPS-Dhaligaon D/C lines. At 22:34 Hrs on 21.06.2023, 132 kV BTPS - Dhaligaon D/C lines tripped. Due to tripping of these elements, Dhaligaon, Barpeta, Jogighopa,Gossaigaon, IOCL load, Bornagar and Nalbari 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 extended to Dhaligaon, Barpeta, Jogighopa,Gossaigaon, IOCL load, Bornagar and Nalbari areas of Assam Power System by charging 132 kV BTPS - Dhaligaon 1 line at 22:39 Hrs on 21.06.2023.	132 kV BTPS - Dhaligaon D/C lines

	Details of Grid Events during the Month of June 2023 in North Eastern Region													
	Category of Grid					Loss of gene	ration / loss of load	% Loss of genera	tion / loss of load w.r.t	Antecedent G	eneration/Load in the			
Sl No.	(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)	during t Generation Loss(MW)	he Grid Event Load Loss (MW)	Antecedent Ger % 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	
26	GD 1	400/220 kV Misa Substation and Smaguri areas of Assam Power System	22-Jun-23 23:04	22-Jun-23 23:45	0:41	0	62	0%	2%	3165	2526	400/220 kV Misa Substation and Smaguri areas of Assam Power System were connected with rest of NER grid through 400 kV New Mariani - Misa D/C, 400 kV Balipara - Misa D/C, 400 kV Silchar - Misa 2, 220 kV Misa - PominatXIIIIiag D/C and 220 kV Misa - Samaguri D/C intes. 400 kV Silchar - Misa 1 line was under outage because it tripped on charging attempt after shut down return at 20:08 Hrs on 22.06.2023. At 23:04 Hrs on 22.06.2023, 400 kV New Mariani - Misa D/C, 400 kV Balipara - Misa D/C, 400 kV Silchar - Misa 2, 220 kV Misa - Dimapur D/C, 220 kV Misa - Byrnihat(Killing) D/C and 220 kV Misa- Samaguri D/C lines tripped. Due to tripping of these elements, 400/220 kV Misa Substation and Smaguri 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 extended to 400/220 kV Misa Substation and Smaguri areas of Assam Power System by charging 220 kV Dimagur - Misa ine 2 at 00:45 Hrs on 23.06.2023.	400 kV New Mariani - Misa D/C, 400 kV Balipara - Misa D/C, 400 kV Sichar - Misa 2, 220 kV Misa - Dimapur D/C, 220 kV Misa - Byrnihat(Killing) D/C and 220 kV Misa- Samaguri D/C lines	
27	GD 1	Rangia area of Assam Power System	25-Jun-23 02:16	25-Jun-23 02:40	0:24	0	21	0%	1%	2160	2707	Rangia area of Assam Power System was connected with rest of NER grid through 132 kV Rangia-Motonga line .220 kV BTPS-Rangia D/C lines were under outage due to tower collapse at loc.no. 452. 132/kV Rangia - Sipajhar & 1324 V Rangia - Tagle lines were under shutdown to avoid overloading of 132 kV Sonabi- Ghoramari & 132 kV Sonabi-Depota lines. 132 kV Rangia-KamaJpur D/C lines were under shutdown to avoid overloading of 132 kV Kahilipara - AlIMS line. At 02:16 Hrs on 25.06.2023, 132 kV Rangia-Motonga line tripped. Due to tripping of this element, Rangia area of Assam Power System go separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Rangia area of Assam Power System by charging 132 kV Tangla-Rangia line at 02:40 Hrs on 25.06.2023.	132 kV Rangia-Motonga line	
28	GD 1	Rangia area of Assam Power System	25-Jun-23 11:50	25-Jun-23 11:55	0:05	0	21	0%	1%	2102	2584	Rangia area of Assam Power System was connected with rest of NER grid through 132 kV Rangia-Motonga line. 220 kV BTPS-Rangia D/C lines were under outage due to tower collapse at loc.no. 452. 132kV Rangia - Sipalhar & 132kV Rangia - Taglie lines were under shutdown to avoid overloading of 132 kV Sonabi- Choramar & 132 kV Sonabi-Depota lines. 132 kV Rangia-Kamalpur D/C lines were under shutdown to avoid low volatge at 132kV Rangia Substation. At 11:50 Hrs on 25.06.2023, 132 kV Rangia-Motonga line tripped. Due to tripping of this element, Rangia area of Assam Power System go separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Rangia area of Assam Power System by charging 132 kV Rangia - Motanga line at 11:55 Hrs on 25.06.2023.	132 kV Rangia-Motonga line	
29	GD 1	Rangia area of Assam Power System	25-Jun-23 14:37	25-Jun-23 14:48	0:11	0	21	0%	1%	2101	2650	Rangia area of Assam Power System was connected with rest of NER grid through 132 kV Rangia-Motonga line. 220 kV BTPS-Rangia D/C lines were under outage due to tower collapse at loc.no. 452. 1324V Rangia - Sipalhar & 1324V Rangia - Taglia lines were under shutdown to avoid overloading of 132 kV Sonabil- Ghoramar & 132 kV Sonabil-Depota lines. 132 kV Rangia-Kamalpur D/C lines were under shutdown to avoid overloading of 132 kV Sonabil-Depota lines. 132 kV Rangia-Kamalpur D/C lines were under shutdown to avoid overloading of 132 kV Kahilipara - AIIMS line. At 14:37 Hx on 25.06.2023, 132 kV Rangia-Monoga line tripped. Due to tripping of this element, Rangia area of Assam Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power suplpt was extended to Rangia area of Assam Power System by charging 132 kV Rangia - Tangia line at 14:48 Hx on 25.06.2023.	132 kV Rangia-Motonga line	
30	GD 1	Meluri & Kiphire areas of Nagaland Power System	26-Jun-23 10:24	26-Jun-23 10:53	0:29	15	4	1%	0%	2409	2657	Meluri & Kiphire areas of Nagaland Power System were connected with rest of NER grid through 132 kV Kohima-Meluri line. At 10:24 Hrs on 26.06.2023, 132 kV Kohima-Meluri line tripped. Due to tripping of this element, Meluri & Kiphire areas of Nagaland 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 Meluri & Kiphire areas of Nagaland Power System by charging 132 kV Kohima Meluri line at 10:53 Hrs on 26.06.2023.	132 kV Kohima-Meluri line	
31	GD 1	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System	27-Jun-23 03:52	27-Jun-23 04:30	0:38	7.8	18.8	0%	1%	2349	2424	Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System were connected with rest of NER grid through 132 kV Balipara - Tenga line. At 03:52 Hrs on 27.06.2023, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh 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 Tenga, Khupi areas and Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 04:30 Hrs on 27.06.2023.	132 kV Balipara - Tenga line	

	Details of Grid Events during the Month of June 2023 in North Eastern Region														
	Category of Grid Event	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 during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the		Antecedent Generation/Load in the Regional Grid					
Sl No.	(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)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped		
32	GD 1	Churachandrapur and Thanion areas of Manipur Power System	28-Jun-23 19:03	28-Jun-23 19:57	0:54	0	10	0%	0%	2658	3230	Churachandrapur and Thanion areas of Manipur Power System was connected with rest of NER grid through 132 kV Ningthoukhong -Churachandpur 1 line. 132 kV Kakching - Churachandpur and 132kV Elangkangokpi Churachandpur lines were under outage since 12:21 Hrs on 08.06.2023. Also, 132 kV Ningthoukhong - Churachandpur 2 line was under outage since 11:02 Hrs on 15.06.2023. At 19:03 Hrs on 28.06.2023, 132 kV Ningthoukhong - Churachandpur 1 line tripped. Due to tripping of this element, Churachandrapur and Thanion areas of Manipur Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Churachandrapur and Thanion areas of Manipur Power System by charging 132 kV Ningthoukhong - Churachandpur 1 line at 19:57 Hrs on 28.06.2023.	132 KV Ningthoukhong - Churachandpur 1 line		