								Details of Gri	d Events di	uring the Mont	h of June 2	022 in Northern Region	
SI No	Category of Grid Event	Affected Area	Time and Date of occurrence	Time and Date of	Duration		ration / loss of load the Grid Event	% Loss of generation Antecedent Genera Regional Grid durin	tion/Load in the	Antecedent Genera Regional	tion/Load in the Grid*	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)	And the second	of Grid Event	Restoration	(HH:MM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	HIMACHAL PRADESH	02-Jun-2022 19:45	02-Jun-2022 20:58	1:13	120	0	0.243	0.000	49439	62775	1.] 220W Pong(BBMB) substation have double main transfer hus scheme. During antecedent condition, 66MW Unit-385 and 220W feeders to Baira, Jahandhar-L Dasuya-III were connected to 220W bus-1 and 66MW Unit-4 and 220W feeders to Jasor, Jahandhar-L Dasuya-IV were connected to 220W bus-2. 2.) At 19x5Hxr. Phase Cr of UNITS a Pong(BB) damaged, which led to bus bar protection of 220W bus1 at Pong(BB). 3.] Due to ripping of 220W bus-1, 66MW Unit-385 and 220W feeders to Baira, Jahandhar-L Dasuya-III tripped as they were connected to 220W bus-1 damaged. Which led to bus bar protection of 220W bus-2. 5.] Other elements connected at 220W bus-2 were remained in service. 6.] As per PMLI, YA phase to earth fault which cleared within 80ms is observed. As per SCADA, change in generation of approx. 120MW is observed at Pong(BBMB).	1] 220 KV Jalandhar-Pong (BB) CK-1 2) 220 KV Bairasiul(NH; Pong(BB) (PG) CK-1 3) 220 KV Pong(BB)-Dasuya(PS) (BBMB) CK-1 220 KV Jalands-Pong (BB) CK-2 230 KV Jalands-Pong (BBMB) 6) 66MW Unit-3 st Pong(BBMB)
2	GD-1	RAJASTHAN	05-Jun-2022 13:03	05-Jun-2022 15:25	2:22	670	500	1.222	0.796	54806	62843	1.) In antecadent condition, 250 MW Suratgarh TPS - UNIT 2, UNIT 4 & UNIT 6, 400/220 KV 315 MVA ICT 1 & ICT 2 at Suratganfi[MVUN] were carrying 175MW, 255MW, 253MW, 197MW & 196MW respectively. 2.) As reported, at 13:03 hrs, 250 MW Suratgarh TPS - UNIT 2 along with 400/220 KV 315 MVA ICT 1 & ICT 2 at Suratgarh[IVUN] tripped on over current protection operation. 3.) As per the verbal communication with Suratgarh SCTPS, 400/220 KV 315 MVA ICT 2 loading went up to 252MW (602A) which led to tripping of ICT-1 and over the rotection operation followed by tripping of ICT-1. 4.) With the tripping of 250MW Unit-2 (connected at 220KV bus) and 400/220KV 315MVA ICT 1&2.220KV side became deal and 6.6kV supply to 250MW Unit-8 at ab became deal which led to tripping of 250MW Unit-8 at ab became deal which led to tripping of 250MW Unit-8 at ab became deal which led to tripping of 250MW Unit-8 at ab became deal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping of 250MW Unit-8 at bote and edal which led to tripping three at the tripping of 250MW Unit-8 at bote and edal which led to tripping the 250MW ICH at bote at a start at bote and edal which led to tripping three at the 250MW ICH at bote at the 250MW ICH at bote at a start at bote at the at bote at the attemp at the 250MW ICH at the 250MW ICH at bote attemp at the 250MW ICH at t	1) 400/220 KV 315 MVA ICT 1 at Suratgarh(RVUN) 2) 250 MW Suratgarh IY5 - UNIT 5 3) 250 MW Suratgarh IY5 - UNIT 4 4)250 MW Suratgarh IY5 - UNIT 2 5) 400/220 KV 315 MVA ICT 2 at Suratgarh(RVUN)
3	GD-1	J & K	06-Jun-2022 17:51	06-Jun-2022 19:06	1:15	0	80	0.000	0.129	50264	61990	 In antecedent condition, 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 & Ckt-2 and 220 KV Amarganh(NRSS XXIX)- Ziankote(JK) (PDD JK) Ckt-1 & Ckt-2 were carrying 27MW, JDMW, IDDMW & JDDMW respectively. A reported; at J75JIns, 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 tripped on 84 phase to earth fault, fault was in Z A troported; at J75JIns, 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 tripped on 84 phase to earth fault, fault was in Z A the same time, 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped from both ends and 220 KV Amarganh(NRSS XXIX)-Ziankote(JK) (PDD JK) (Ziankote(JK)) (PDD JK) (Ziankote(J	1] 220 KV Amargarh(NRSS XXX)-Ziankote(JK) (PDD JK) Cit-2 2] 220 KV Wagoora/PG-22ankote(JK) (PDD JK) Cit-1 3] 220 KV Amargarh(NRSS XXX)-Ziankote(JK) (PDD JK) Cit-1
4	6D-1	NEW DELHI	07-Jun-2022 15:59	08-Jun-2022 06:47	14:48	295	750	0.511	1.111	57723	67500	 In antecedent condition, CCGT bawarab bus was importing 159 MW from bahadurgarh and 309 MW from Bhiwani. GT-3 and CTG-2 were generating al CCGT and trail generation was 300 MW (110-190). White of this 800 MW power being fee to 315 MAC ICT.4,5,5 & situates at Bawana(OTL) and further to 220 kW Rohin-182, Shahama Bah-3 and QSD-182. The Instructure of the CCGT and trail generation was 300 MW (110-190). White and the CCGT and trail generation was 300 MW (110-190). The Instructure of the CCGT and trail generation was a power being fee to 315 MAC ICT.4,5,7 & situates at Bawana(OTL) and further to 220 kW Rohin-182, Shahama Bah-3 and QSD-182. The Instructure of the CCGT and trail and CCGT was open with ICT-382 on other section. The corresponding bus and 400 KV CCGT - Bahadurgarh moves on common tower after existing from the CCGT gartry. A) 11559 hm r-Phase conductor OCGT - Bhiwania Instructure OCGT - Bhiwania Instructure OCGT - Bhiwania Instructure of CCGT - Bhiwania INST Data Control GDA MW Ingread thereby causing Generation Ioad minarch 4 CCGT - Bhibading GT - 3 and ST - 2 alto tripped on Eshate therepetare bight and under fenguence operation respectively. A confirmed by SUC Dethi and IDT all the 220 KV feedees from Bhiwana IDT) were running in radial mode therefore as for the web. Bai to also to be noted that no tripping has happened at Biawana (DT) and all ICTs and 220 KV CGS remained intact and closed. Restoration was carried out by dosing 400 kV CCGT - Baiwana (DT) interconnector and extending supply to	1) 400 FV Bawana CCGTB(DTL)-Bahadurgarh(PG) (PG) CH-1 2) 400 FV Bawana CCGTB(DTL)-Bhiwan(PG) (PG) CH-1 3) 240KW GTA: LCGT Bawana 4) 254KW STG-2 at CCGT Bawana
5	GD-1	PUNJAB	11-Jun-2022 18:15	11-Jun-2022 19:44	1:29	165	0	0.336	0.000	49047	62691	1. 400/220kV Dehar(BB) have double main single breaker scheme however 400 kV Dehar(BB)-Panchkula(PG) (PG) Ckt & 400 kV Dehar(BB)-Panchkula(PG) (PG) Ckt are connected with both the buses with separate breaker (which also act as bus coupler) just like as double main double breaker scheme. 2. During enteredent condition, 1500/WU Deinstellet debug BD, 200 company grammer and the scheme sc	1) 400 KV Dehar(88)-Panchkula(PG) (PG) CK-1 2) 400 KV Dehar(88)-Pajpura(PS) (PG) CK-1 3) ISSMW Unit-6 at Dehar(88)
6	GI-2	UTTAR PRADESH	11-Jun-2022 23:00	12-Jun-2022 00:03	1:03	0	0	0.000	0.000	51734	71057	 400/220XV Mustifiansagr/UIP jubitation have double main transfer bus scheme at both 405KV & 220KV level. During entecedent condition, 400/220 kV 315 MVA.ICT 3 & 500 MVA.ICT 4 at Mustifiansagr/UIP, 220VI 32XV 160MVA.ICT 2 at Mustifiansagr/UIP, 220KV Mustifiansagr-Beathatikain etk 220KV Mustifiansagr-Chalt etk were connected to 220K bus- and 400/220 kV 35 MVA.ICT 2 & ICT at Mustifiansagr-Shanit etk 200KV Mustifiansagr-Shanit etk 200KV Mustifiansagr-Mate at Motipizarn etk, 220KV Mustifiansagr-Janasith etk 220XV 22XV 150MVA.ICT - were connected to 220KV Bus-1. 2 At 2300Kr yr Lof of 220KV Mustifiansagr-Shanit etk 200XI 22XV 150MVA.ICT - Were connected to 220KV Bus-1. 2 At 2300Kr yr Lof of 220KV Mustifiansagr-Shanit etk 200XV 30KVA.ICT - 200XV Bus-1. 2 At 250KV at 10 for 10 dia 20KV Mustifiansagr-Shanit etk 200XV 30KVA.ICT - 20KV Mustifiansagr-Shanit etk 200XV 30KVA.ICT - 20KV Mustifiansagr-Shanit etk 200XV 30KVA.ICT - 20KV 40KVA.ICT - 20KVA.ICT - 20KV 40KVA.ICT - 20KV 40KVA.ICT - 20KV 40KVA.ICT - 20KV 40KVA.ICT - 20KVA.ICT - 20KV 40KVA.ICT - 20KVA.ICT - 20KVA	1) 400/220 kV 315 MVA ICT 3 at Muzaffarnagar(UP) 2) 400/220 kV 315 MVA ICT 3 at Muzaffarnagar(UP) 3) 400/220 kV 315 MVA ICT 3 at Muzaffarnagar(UP)

								Details of Gri	d Events d	uring the Mont	h of June 2	022 in Northern Region	
SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence	Time and Date of	Duration	Loss of gener during t	ation / loss of load he Grid Event	% Loss of generation Antecedent Genera Regional Grid durir	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	Restoration	(HH:MM)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	and a construction on the construction part and spaces construction	
7	GD-1	PUNJAB	13-Jun-2022 12:18	13-Jun-2022 14:50	2:32	530	0	0.927	0.000	57203	69435	220XV Guru Gobind Singh TPS (Ropar) have double main single breaker bus scheme. Bus 1 is divided into three part (Bus1A, Bus1B, Bus1C) by two bus sectionalisers. 2. During antecedent condition, 210 MW Guru Gobind Singh TPS (Ropar) - UNIT 3, UNIT 4 & UNIT 5 were generating approx. 187MW, JOSMW & 151MW respectively. 3. As reported, at 121Mm; LBB protection of bus coupler breaker (connected to bus1A & bus2) maloperated which led to the tripping of Bus1A & Bus-2. Due to tripping of aforementioned buses, 210 MW Guru Gobind Singh TPS (Ropar) - UNIT 3, UNIT 3 at 201MT 5 and 220V this connected to Bus1Frahma, Ghulai, Gogandi, Gary, Mark, Muhal & Gobine T tripping 4. Due to tripping of aforementioned UNITs, generation tas of approx. 530MW is observed (ap er SOLON), 5. 220V bus1B & envires Via have buses.	1) 210 MW Guru Gobind Singh TPS (Ropar) - UNIT 5 2) 210 MW Guru Gobind Singh TPS (Ropar) - UNIT 3 3) 210 MW Guru Gobind Singh TPS (Ropar) - UNIT 4
8	GD-1	UTTRAKHAND	15-Jun-2022 10:19	15-Jun-2022 11:59	1:40	140	0	0.239	0.000	58490	70383	I. In antecedent condition, 70MW Dhauligangs Unit-3 & 4, 220kV Dhauligangs-CB Canj ckt (carrying 110MV) were connected 12 220kV Bus-1 at Dhauligang HEP and 70MW Dhauligangs Unit-1 & 2, 220kV Dhauligangs – Pithongath ckt (carrying 157MW) were connected to 220kV Bus-2 at Dhauligangs Unit-1 & 2, 220kV Dhauligangs – Pithongath Ckt (carrying 157MW) were connected to 220kV Bus-2 at Dhauligangs HEP. 220kV Pithongarh-Almora ckt was carrying 67MW during antecedent condition. 2. At DI352:390 (as per 50E), 220kV Pithongarh-CB Ganj ckt (was opened to avail shutdown. At the same time, oscillations also observed (as per 9MU pito of frequency and voltage at Pithongarh- 3. With the opening of 220kV Pithongarh-CB Ganj ckt, HW loading of 220kV Dhauliganga-CB Ganj ckt & 220kV Pithongarh- Amora ckt rose to 153MW & 137MW respectively (ag per 50CA), 1 puther after approx. Issees, at 10:1929:161(ag per 50CA), 123kV Pithongarh- Amora kt rose to 153MW & 137MW respectively (ag per 50CA), 1 puther after approx. Issees, at 10:1929:161(ag per 50CA), 123kV Pithongarh- Amora kt rose to not or current protection. a further after approx. Astec at 10:1923:161 per 50CB, 123kV Pithongarh- Amora kt rose to not or current protection. a further after approx. Astec at 10:1923:161 per 50CB, 123kV Pithongarh- Amora kt rose to 10:1923:161 per 50CB, 123kV Pithongarh- Buset Status (ad basered). a further after approx. Astec at 10:1923:161 per 50CB, 200k, per PMU, not furth observed. a further after approx. Astec at 10:1923:161 per 50CB, bus coupler breaker at Dhauliganga opened (on SPS openition) and 70MW Dhauliganga Unit-1 & 2 tripped on loss of evacuation path.	1) 132 KV Pithoragan(PG)-Almora(PTCUL) (PTCUL) Ckt-1, 2) 70 MW Dhauliganga HPS - UNIT 1 3) 70 MW Dhauliganga HPS - UNIT 1
9	GD-1	J&K	17-Jun-2022 18:27	17-Jun-2022 20:51	2:24	220	O	0.472	0.000	46572	57921	220KV Kishenganga(NHPC) HEP have double main single breaker bus scheme. 2. During anteredent condition, 220 KV Kishenganga(NH)-Wagoora/PC) (FG) CE4: (carrying 65MW), 220 KV Kishenganga(NH)- Delina/PCD) (FO) CE4: (carrying 79MV), 130 MV Kishenganga: VUNT 1 & WUNT 2 were connected at 220KV Bus 1 and 220KV Kishenganga(NH)-Wagoora/PC) (FG) CE4: (carrying 65MV), 220 KV Kishenganga(NH)-Delina/PCD) (FO) CE4: (carrying 99MV), 2.3 LV Xishenganga(NH)-Wagoora/PC) (FG) CE4: (carrying 65MV), 220 KV Kishenganga(NH)-Delina/PCD) (FO) CE4: (carrying 99MV), 2.4 L32 X714Y, 754, 754 basis to phase bus folds four four company of µmper between isolator and bus: 0 f1 DBWV Kishenganga-UNIT 1.4 spe FMU at New Wanpoh, 49 phase to phase four is observed which cleared within R0ms. 4. On this to study, bus bar protection 0220V Bus 1: at Kishenganga HEP potented and 220 KV Kishengang(HH)-Wagoora/PG) (FG) CE4: 1, 220 KV Kishengang(HH)-Wagoora/PG) (FG) (CE4: 21 in MW Kishenganga-UNT 1: & UNIT 2 al tripped. 5. At the same time 220 KV (Skiengang(HH)-Wagoora/PG) (FG) (CE4: 21 in MW Kishenganga HEP). 6. As per SCADA, generation loss of approx. 220MW is observed due to tripping of 110 MW Kishenganga-UNIT 1 & UNIT 2	1] 220 KV Kishenganga(NH)-Wagoora(PG) (PG) C41-1 2] 220 KV Kishenganga(NH)-Wagoora(PG) (PG) C41-2 3] 220 KV Kishenganga(NH)-Delina(PDD) (PG) C41-2 4) 120 MW Kishenganga - UNIT 1, 110 MW Kishenganga - UNIT 2
10	GD-1	J & K	18-jun-2022 15:11	18-Jun-2022 16:01	0:50	0	90	0.000	0.156	50663	57573	During antecedent condition, 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+1.8. CK+2 were carrying 194W each. Z. At 1527 brs, 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+1.9 CMB and that during inclement weather condition, fault durace was 4. Mik Afaut current was ArA Aforo Barn each. A. At the same time, 220 KV Kishenpur/PG)-Barn(JK) (PDD JK) CK+2 also tripped from Barn end ony. A. At reported by SLDT-KI, load loss of approx. 90MW occurred, which was restored by charging 220 KV Kishenpur/PG)-Barn(JK) (PD JK) CK+2 at 16:01hrs.	1) 220 KV Kishenpur(PG)-Bern(IX) (PDD IK) CK-1 2) 220 KV Kishenpur(PG)-Bern(IK) (PDD IK) CK-2
11	GI-2	RAJASTHAN	21-Jun-2022 15:24	21-Jun-2022 17-26	2:02	O	0	0.000	0.000	46244	56639	4. 400/220W Bikaner(R5) have one and half breaker bus scheme. 2. During antecedent condition, 400 KV Bikaner(R5)-Deedwana(MT5) (R5) Ck+1, 400/220 KV 315 MVA ICT 1 & ICT 2 at Bikaner(R5) and 125 MVA Bus Reactor No 2 at 4000V Bikaner(R5) Here connected to 4000V Bus-2 and 400kV lines to Merta, Sikan-Ck+132, Multiplicy, SCTF Sci-122 and STTS were connected to 4000 VB Bus-1. 3. At 1524 hrs, during wind storm/nand storm, Towner no 91 & 92 of 400 VV Bikaner(R5)-Deedwana(MT5) (R5) Ck+1. So genetational of the sci-1. 3. At 1524 hrs, during wind storm, Towner no 91 & 92 of 400 VV Bikaner(R5). Deedwana(MT5) (R5) Ck+1. So genetational of the sci-1. 3. At 1524 hrs, during wind storm, Towner no 91 & 92 of 400 VV Bikaner(R5). The science of	1) 400 KV Bikaner-Bhadia (KS) Ckt-1 2) 400 KV Bikaner(KS) Silar(PG) (KS) Ckt-1 3) 400 KV Bikaner(KS) (FG) (KS) Ckt-1 4) 400 KV Bikaner(KS) (FG) (KS) (KS) (KS) (KS) (KS) (KS) (KS) (KS
12	GD-1	HIMACHAL PRADESH	22-Jun-2022 16:15	22-jun-2022 16:40	0:25	50	0	0.098	0.000	51064	61003	 220KV Ad Hydro -Nailagarh ckt & 220KV AD Hydro-Photal ckt are on same tower. During antecedent condition, 56MV MVU Unit 1 at AD Hydro was not running and 96MWU Unit 2 was generating around 45MW. At 1615 Jrs, R-N Jakas to earth fault occurred on 220kV Ad Hydro-Nailagarh ckt at distance around 9.2km from AD Hydro eard. As per FMD, R-N Jakas to earth fault occurred on 220kV Ad Hydro-Naila et al distance practosition reserved. At the same time, 220kV AD Hydro-Photal ckt also tripped from Photal end only. As per the information received, Photal end distance practosition rely sensed R-N fault no.2 visit visitance 23Mm. With the tripping of both the time, 52MM JMV Unit 2 at AD Hydro tripped due to loss of exacuation path. A per SCNDA, change in generation of approx. 50MW is observed at AD Hydro HEP. 	1) 220 KV AD hydro(AD)-Mallagarh(PG) (ADHPL) CK-1 2) 220 KV AD hydro(AD)-Phozal(HP) (ADHPL) CK-1

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	(GI 1or 2/ GD-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)	ntecedent Load (MW)		
13	GI-2	RAJASTHAN	22-Jun-2022 17:10	22-Jun-2022 18:32	1:22	0	0		0.000	47977	59061	1. At 17:10:26 hrs, 765 KV Bikaner-Moga (PG) Ckt-2 was manually opened due to high voltage on account of voltage regulation. 2. In antecedent condition, 5CADA Bus voltage at 755KV Fatehgarh.2, Bhadia, Bhadia2, Bikaner & Ajmer was 818KV, 824KV, 818KV, 829KV & 810KV respectively. 3. With the opening of 755 KV Bikaner-Moga (PG) Ckt-2, rise in voltage by 4-5KV is observed as per PMU which sustained for around 5-secs. 4. A around 17:10:31hrs, 755 KV Fahefgarh.11(PG)-Bhadia(PG) (FBT) Ckt-1, 765 KV Ahmer-Bhadia_2 (PG) Ckt-1, 765 KV Bhadia-Bikaner (PG) Ckt-1 and 765 KV Bikaner-Moga (PG) Ckt-1 all tripped on over voltage protection operation.	11 765 KV Bikaner-Moga (PG) Ckt-1 21 765 KV Bikaner-Moga (PG) / Attehgarh. JI(PG) (PFTL) Ckt-1 31 765 KV Attehgarh. JI(PG) Antola(PG) (FBTL) Ckt-1 40 5 KV Bhalds Banter (PG) Ckt-1 5) 765 KV Aujmer-Bhadia_2 (PG) Ckt-1
14	GI-2	HARYANA	28-Jun-2022 14:50	28-Jun-2022 16:20	1:30	0	D	0.000	0.000	59609		LoOV220KV Bhiwani(BB) have double bus double breaker bus scheme. LoOV220KV Bhiwani(BB) have double bus double breaker bus scheme. LA 14530FX, ryh CT of 400KV Bhiwani-Hissar dta bus dauble and and caused bus fault. As per PMU, Y-N phase to earth fault which have and whihin 80ms. Jo An this bus fault, bus bar protection of Bus-1 operated and resulted into tripping of all the breakers connected to Bus-1 A. At the same time. AdXVB BhiwaniF(B) at the perform and performance of LBB protection and 400KV Bhiwani-Rajpura ckt from Rajpura end only on DT recrived from Bhiwani(BB) end.	1) 400 KV Bhiwan(IB)-Hissar(PG) (PG) Cit-1 2) 400 KV Bhiwan(IG) FibiWan(IB) (PG) Cit-1 3) 400KV Bus 1 at Bhiwan(IB) 4) 400 KV Bhiwan(IB)-Rapura(PS) (PG) Cit-1
15	GD-1	UTTRAKHAND	29-Jun-2022 11:38	29-Jun-2022 11:52	0:14	0	500	0.000	0.692	58677	72293	1. At 11:35 hrs, 220kV Pantnagar-Barellly ckt-1 was taken under emeregncy shutdown to attend hotspot. 2. At 11:40 hrs, 400/220KV 315MVA ICT1 & ICT2 at Kashipur trigped on over current earth fault protection operation. As per PMU, no fault is observed. 3. As per SCANL bodle sof. a pporce. SOD MW occurred in Uttarakhand control area. 4.in antecedent condition, 400/220KV 315MVA ICT1 & ICT2 at Kashipur and 220kV Kashipur-Pantnagar were carrying 280MW, 280MW & 43MW respectively	1) 400/220 kV 315 MVA ICT 1 at Kashjour(UK) 2) 400/220 kV 315 MVA ICT 2 at Kashjour(UK)
16	GD-1	RAJASTHAN	29-Jun-2022 15:09	29-Jun-2022 15:52	0:43	820	O	1.377	0.000	59551	73880	At 15:09%, 220kV fatehgsh2.Renew Iharthand3 ckt tripped on B-N fault. As reported, B phase jumper of line, found open al location no. SA. Sper FMUI at Renew Jumrhand3 ckt tripped on B-N fault. As reported, B phase jumper of line, found open antecedent condition, Renew Junkhand3 was generating approx. 27MW. 2. Further after approx. 120ms (ap Ex CASA OSC), 220/38V ISOMVA. (C1 - 24 Renew Sunwave and 220/38V ISOMVA IC1 - 24 Renew Sunbright tripped from IV (33KV) side. In antecedent condition, Renew Sunwave and 220/38V ISOMVA IC1 - 24 Renew Sunbright tripped from IV (33KV) side. In antecedent condition, Renew Sunwave and Renew Sunbright were generating approx. 21MW & 25.0MW respectively. 3. As per SCADA, solar generation of op approx. 20MW is observed during the event (247MW at Renew Jinkrhand3, 24.0WW at Renew Januek, 12ZWW at Renew Sunhfright and 25.5MW at Renew Jinkrhand3, 4. Oue to sudden drop in generation of "820MW, over voltage coccured. On this over voltage, 755 KV Fatelgarh, II(PG)- Bhadlife() (FBT) (L1 tripped on over voltage of approx. 20KV is observed. Phase voltage rose from 453kV ("785kV line voltage) to 473kV ("R20kV line voltage).	1) 765 KV Fatehgarh_III(PG)-Bhadia(PG) (FBTL) Ckt-1 2) 220 KV Fatehgarh_III(PG)-Renew_Jhanhand 3 SL_PGARH_PG (RSE3PL) (ISELSPL) Ckt-1

							Details	of Grid E	vents du	ring the Mon	th of Ju	ne 2022 in Western Region	
SI No		Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	load during t	ration / loss of he Grid Event	load w.r.t A Generation/ Regional Gri Grid I	Load in the d during the	Antecedent Generati the Regional C	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	GD-1	WR	02-Jun-22 18:46	02-Jun-22 21:15	2:29	136	-	0.002	-	68468	58142	At 18:46 Hrs/02-06-2022, 220 kV Bhuj- Baranda tripped on B-E fault at Baranda end only. Generation loss of 136 MW occurred at Baranda (ASIPL) Wind Power station due to loss of evacuation path.	Tripping of 1.220 kV Bhuj- Baranda
2	GD-1	WR	04-Jun-22 02:57	04-Jun-22 05:50	2:53	224	-	0.003	-	68881	58367	At 02:57 Hrs/04-06-2022, 220 kV Bhuj-Gadhsisa tripped on Y-E fault. Generation loss of 224 MW occurred at Gadhsisa (Renew Power) Wind Power station due to loss of evacuation path.	Tripping of 1.220 KV Bhuj- Gadhsisa
3	GI-1	WR	05-Jun-22 04:35	05-Jun-22 07:57	3:22	210	-	0.003	-	67192	57572	At 04:35 Hrs/05-06-2022, 220 kV KAPS 1&2 Bus 2 and all the elements connected to it tripped on Bus bar protection operation due to damaged R phase isolator of 220 kV Vav 2 line. There was a generation loss of 210 MW due to the event.	Tripping of 1. 220 KV KAPS 1&2 Bus 2 2. 220 KV KAPS 1&2- Bus 2 3. 220 KV KAPS 1&2- Halderwa 2 4. 220 KV KAPS 1&2- Halderwa 2 4. 220 KV KAPS 1&2- Vapi 2 5. 220 MW KAPS 1&2 Unit 2
4	GD-1	WR	05-Jun-22 04:41	05-Jun-22 08:10	3:29	197	-	0.003	-	67008	57591	At 04:41 Hrs/05-06-2022, 220 kV KAPS 1&2 Bus 1 and all the elements connected to it tripped on Bus bar protection operation due to damage of 220 kV Bus 1 post insulator. With this tripping, 220 kV KAPS 1&2 station became dark. Prior to the event, 220 kV KAPS 1&2 Bus 2 tripped at 04:35 Hrs on BB protection operation. There was a generation loss of 197 MW due to the event.	Tripping of 1. 220 KV KAPS 18.2 Bus 1 2. 220 KV KAPS 18.2 - Vau 1 3. 220 KV KAPS 18.2 - Haldarwa 1 4. 220 KV KAPS 18.2 - Vapi 1 5. 220 MW KAPS 18.2 Unit 1
5	GI-2	WR	05-Jun-22 04:43	05-Jun-22 07:29	2:46	-	-	-	-	66793	57461	At 04:43 Hrs/05-06-2022, 400 kV Veloda Bus 2 and all the elements connected to it tripped on Bus bar protection operation due to flashover of Y phase fly-over insulator string of 400/220 kV Veloda ICT 2. There was no load loss due to the event.	Tripping of 1. 400 KV Veloda Bus 2 2. 400/220 KV Veloda ICT 2 3. 400 KV Veloda- Banaskantha 2 4. 400 KV Veloda- Ranchodpura S/c 5. 400 KV Veloda- Charanka 1
6	GI-2	WR	05-Jun-22 06:18	05-Jun-22 07:29	1:11	-	-	-	-	66429	58697	At 06:18 Hrs/05-06-2022, 400 kV Veloda Bus 1 and all the elements connected to it tripped on Bus bar protection operation due to flashover of 400 kV Bus coupler Y phase fly-over insulator. There was no load loss due to the event.	Tripping of 1. 400 KV Veloda Bus 1 2. 400/220 KV Veloda ICT 1 3. 400 KV Veloda-Banaskantha 1 4. 400 KV Veloda-Kansari 5/c 5. 400 KV Veloda-Charanka 2
7	GI-1	WR	09-Jun-22 10:02	09-Jun-22 10:20	0:18	-	250	-	0.004	64316	59418	At 10:02 Hrs/09-06-2022, 220 kV Mapusa- Ponda tripped on B-E fault (connected to 220 kV Ponda Bus 1 & 220 kV Ponda Bus coupler was in open condition). As 220 kV Mapusa- Ponda was the only source connected to 220 kV Bus 1 (220 kV Amona-Ponda 1 which was normally connected to Bus 1 was under planned outage since 08:43 Hrs), load connected to 220 kV Ponda Bus 1 was fed from 110 kV Tivim and resulted in tripping of 220/110 kV Tivim ICTs on Overload. As informed by SLDC Goa, there was a load loss of 250 MW.	Tripping of 1. 220 KV Mapusa- Ponda 2.220/110 KV Thivim ICTs 1,2&3
8	GD-1	WR	09-Jun-22 20:21	10-Jun-22 18:31	22:10	184	-	0.003	-	69606	57476	At 20:21 Hrs/09-06-2022, 220 kV Bhuj- Naranpar tripped on B-E fault. With this tripping 220 kV Naranpar went dark. There was a generation loss of 184 MW at Naranpar(GIWEL) Wind power station.	Tripping of 1. 220 KV Bhuj – Naranpar
9	GD-1	WR	09-Jun-22 22:50	10-Jun-22 22:44	23:54	145	-	0.002	-	71078	58490	At 22:50 Hrs/09-06-2022, 220 kV Bhuj- Vadva tripped on 86B relay mai-operation at Bhuj end. With this tripping 220 kV Vadava went dark. There was a generation loss of 145 MW at Vadva(GiWEL) Wind power station. Line test charged at 02:51 Hrs/10-06-22 but line tripped again due to 86 B relay operation at Bhuj end.	
10	GI-1	WR	11-Jun-22 22:47	11-Jun-22 23:09	0:22	-	239	-	0.004	67664	54921	At 22:47 Hrs/11-06-2022, Y phase PT of 220 kV Gurur Bus 1 blasted and resulted in tripping of all the elements connected to 220 kV Bus 1&2 at Gurur s/s. There was a load loss of 239 MW due to the event.	Impping of 1. 220 kV Gurur- Bhilai 1&2 2. 220 kV Gurur- Kurud 1&2 3. 220 kV Gurur- Barsoor 4. 220/122 kV Gurur (Ctr. 1.282
11	GD-1	WR	13-Jun-22 13:55	13-Jun-22 15:16	1:21	535	-	0.008	-	67575	57478	At 13:55 Hrs/13-06-2022, while charging of 220KV Bhuj-Ratadiya Line-1 from Bhuj SS, 220 KV Bhuj Bus-1 Section A tripped which led to tripping of 220 KV Bhuj-Vadva, 220 KV Bhuj-Naranpar and 400/220 KV Bhuj (CT-4. At the same time 220 KV Bhuj-Gabhisa and 220 KV Bhuj-Khara tripped, resulting wind generation loss of 353 MW. Prior to the event, 220KV Bhuj-Ratadiya 1 was under emergency outage for attending Hotspot at Ratadiya end.	Tripping of 1. 220 KV Bhuj Bus 1 Section A 2. 220 KV Bhuj- Vadava 3. 220 KV Bhuj- Naranpar 4. 400/220 KV Bhuj ICT A 5. 220 KV Bhuj- Gadhsisa 6. 220 KV Bhuj- Alfanar

							Details	of Grid F	ents du	ring the Mon	nth of Ju	ine 2022 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)		ration / loss of he Grid Event	% Loss of generation/ load w.r.t / Generation/ Regional Grid	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)		Evin			Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
12	GD-1	WR	14-Jun-22 19:28	15-Jun-22 17:53	22:25	21	-	0.000	-	69704	56883	At 19:28 Hrs/14-06-2022, 220 kV Bhuj- Naranpar tripped on B-E fault and resulted in generation loss of 21 MW at Naranpar(GIWEL) wind power station.	Tripping of 1. 220 kV Bhuj- Naranpar
13	GI-2	WR	15-Jun-22 23:23	16-Jun-22 00:40	1:17	-	-	-	-	70809	56255	At 23:23 Hrs/15-06-2022, 765 kV Dharamjaygarh Bus 2 and 765 kV Dharamjaygarh-Jharsuguda 1 tripped on BB protection operation due to failure of R phase CT of 733 Main Bay.	Tripping of 1. 765 kV Dharamjaygarh Bus 4 2. 765 kV Dharamjaygarh- Jharsuguda 1
14	GI-1	WR	18-Jun-22 00:38	18-Jun-22 01:57	1:19	167.7	-	0.003	-	64315	55067	At 00:38 Hrs/18-06-2022, 220/33 kV Alfanar ICTs 1&2 tripped on Neutral Over current protection during the Y phase LA failure of 33 kV Feeder 4. There was a generation loss of 167.7 MW at Nanavalka(Alfanar) wind power station.	Tripping of 1. 220/33 kV Nanavalka (Alfanar) ICT 1&2
15	GI-1	WR	19-Jun-22 13:08	19-Jun-22 14:06	0:58	-	499	-	0.010	56882	52208	At 13:08 Hrs/19-06-2022, All Lines & ICTs connected to 220 kV Padghe Bus sections 1&3 along with Bus Coupler tripped due to decapping of Y phase stub bus suspension string above 50 MVA 220/22 KV BHEL T/F Bay.As reported by MSETCL, there was a load loss of 499 MW	Tripping of 1. 400/220 KV Padghe ICTS 1,2,3&5 2. 220/100 KV Padghe ICTS 1,2,3&4 3. 220 KV Padghe Bus sections 1&3 4. 220 KV Padghe- hambul 5. 220 KV Padghe- PAL
16	GD-1	WR	22-Jun-22 15:51	22-Jun-22 19:48	3:57	230	700	0.004	0.013	57597	53219	At 15:51 Hrs/22-06-2022, 400 kV Gandhar Bus 2 & 400 kV Gandhar. Hazira 2 tripped on Busbar protection operation due to flashover of R-ph 89A isolator at Gandhar end. Prior to the event, 400 kV Gandhar Hazira 1 tripped at 15:45 Hrs on R-E fault. With these tripping, 400 kV Hazira station went blackout. As informed by AMNSIL, Island field to separate due to issue in DC system and collarged due to load-generation imbalance. There was a load loss of 700 MW and captive generation loss of 230 MW at AMNSIL.	Tripping of 1. 400 KV Gandhar Bus 2 2. 400 KV Gandhar- Hazira 1&2
17	GI-2	WR	28-Jun-22 01:12	28-Jun-22 05:12	4:00	-	-	-	-	63943	51003	At 01:12 Hrs/28-06-2022, 400 kV Asoj Buses 1 & 2 on Bus bar protection operation due to snapping of Bph flyove jumper of 400 kV Bus coupler. There was no load loss due to the event.	Tripping of 1. 400 kV Asoj- Chorania 2 2. 400 kV Asoj- Kosamba 3. 400 kV Asoj- SSP 4. 400 kV Asoj- Indore 18.2 5. 400 kV Asoj - Vadodara 18.2 6. 400/220 kV Asoj ICTs 1,2,38.4

								Details o	of Grid E	vents during	the Mont	h of June 2022 in Southern Region	
Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	Loss of gener load during th		% Loss of gener load w.r.t A Generation/I Regional Grid d Eve	ntecedent Load in the uring the Grid	Antecedent Generati Regional		Brief details of the event (pre fault and post fault system conditions)	Name of Elements (Tripped/Manually opened)
	(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	Karnataka	05-Jun-22 19:16	05-Jun-22 20:04	48mins	13	86	0.03%	0.22%	38039	39164	Complete Outage of 220KV/110KV Mahalingapura SS and 220kV/110KV Soudatti SS of KPTCI: During antecedent conditions, 220KV/110KV Soudatti SS was radially fed from 220kV/110KV Mahalingapura SS. At 220kV/110KV Mahalingapura SS, all 220kV elements were connected to 220K Bas 2. As per the reports submitted, the triggering incident was R-N Fault in 220KV Narendra Mahalingapura Line-2. At Mahalingapura end, 'r-pole of the branker failed to open leading to LBB operation. All the elements connected to 220kV Bus-2 tripped. This led to complete outage of 220kV/110kV Mahalingapura SS and 220kV/110kV Soudatti SS.	2. 220kV Mahalingapura Athani 3. 220kV Mahalingapura Kuduchi
2	GD-1	Karnataka	07-Jun-22 13:57	07-Jun-22 14:15	18 mins	0	0	0.00%	0.00%	44753	44607	Complete Outage at 220kV/110kV Haveri SS of KPTCL: In the antecedent condition, all the elements were connected to Bus-2 at 220kV Haveri SS and Bus coupler was in closed condition. As per the reports submitted, the triggering incident was the failure of B phase Bus-1 string insulators. However Bus Bar did not operate at Haveri end. Since Haveri Bus-1 did not clear the fault, this led to the tripping of all the lines connected to Haveri at remote ends and Bus coupler got tripped on EF. This led to the complete outage at 220kV/110kV Haveri SS.	2. 220kV Haveri - Narendra Line
3	GD-1	Tamil Nadu	08-Jun-22 08:34	08-Jun-22 10:18	1 hrs 44 mins	67	6	0.16%	0.01%	42098	43957	Complete Outage of 400KV/110KV Thappugundu SS of TANTRANSCO: During antecedent conditions, 400KV Anaikadavu Thappugundu line-2 was under outage. As per the reports submitted, triggering incident was R-N fault in 400kV Anaikadavu Thappugundu Line-1 and the line got tripped. Tripping of the only connected line resulted in complete outage of 400KV/110KV Thappugundu SS.	1. 400kV Anaikadavu Thappugundu Line-1
4	GD-1	Telangana	17-Jun-22 00:53	17-Jun-22 01:49	56 mins	o	0	0.00%	0.00%	35524	38249	Complete Outage of 400kV/11kV Tippapur SS and 400kV/11kV Medaram SS of TSTRANSCO: During antecedent conditions, 400kV Singareni Ramadugu line 2, 400kV Kamadugu-Gajwel line 1, 400kV Medaram Ramadugu line 2, 400kV Tippapur Ramadugu line 2, 400kV Tippapur Ramadugu line 2 and 400kV Tippapur Chandulapur line 1 were under outage. While charging 400kV Singareni Ramadugu line 1 at 00:53 hrs, 400kV Ramadugu-Medaram 1, 400kV Ramadugu-Tippapur 1, 400kV Tippapur-Jangon 1 and 400kV Tippapur Chandulapur-2 tripped on over voltage. Tripping of all connected lines resulted in complete outage of 400kV/11kV Tippapur SS and 400kV/11kV Medaram SS.	2. 400kV Medaram Ramadugu-1
5	GD-1	Andhra Pradesh	18-Jun-22 12:38	18-Jun-22 13:01	23 mins	0	220	0.00%	0.50%	39671	43672	Complete Outage of 220kV/132kV Neliore AP SS of APTANSCO: As per the reports submitted, the triggering incident was Y-N fault in 220kV Manubolu Neliore Line-3. At both ends, A/R initiated and Y-pole opened. After 400ms, the relay could still sense the current in Y-phase and lab operated. All the elements connected to 220kV Bus tripped. Since 220kV Neliore AP SS was under single bus operation, this led to complete outage of 220kV/132kV Neliore AP SS.	2. 220kV Nellore_AP-Atmakur-1 and 2
6	GD-1	Tamil Nadu	21-Jun-22 14:53	21-Jun-22 15:16	23 mins	277	120	0.64%	0.29%	43492	40691	Complete Outage of 230kV/110kV Theni SS of TANTRANSCO: As per the reports submitted, the triggering incident was LV side insulator failure of 230kV/120kV Auto Transformer 2 at Theni SS. Immediately, LBB operated and all the elements connected to 230kV Bus tripped. Since 230kV Theni SS was under single bus operation. This resulted in complete outage of 230kV/110kV Theni SS.	1. 230 kV Theni-Sabarigiri 2. 230 kV Theni-Sembatty 3. 230kV Theni-Chikkanoorni 4. 230kV/110kV Auto Transformer-1,2&3
7	GD-1	Telangana	21-Jun-22 19:34	21-Jun-22 21:14	1 hrs 40 mins	0	150	0.00%	0.36%	40171	42121	Complete Outage of 220kV/132kV Medchal SS of TSTRANSCO: As per the reports submitted, the triggering incident was 220kV BBP operation at 220kV/132kV Medchal SS and all the elements connected to bus bar tripped. Since 220kV Medchal was under single bus operation, this resulted in complete outage of 220kV/132kV Medchal SS.	
8	GD-1	Andhra Pradesh	24-Jun-22 02:41	24-Jun-22 15:46	13 hrs 5 mins	0	0	0.00%	0.00%	37673	36109	Complete Outage of 400kV RYTPP Generating Station of APGENCO: During antecedent conditions, 400kV Kalikiri RYTPP Line-2 was under outage. The triggering incident was tripping of 400kV Kalikiri RYTPP Line- 1 on over voltage stage-1 protection at RYTPP end and DT was received at Kalikiri end. Since both 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.	1. 400kV Kalikiri RYTPP Line-1
9	GD-1	Kerala	25-Jun-22 05:46	25-Jun-22 07:34	1 hrs 48 mins	0	404	0.00%	1.09%	37954	37164	Complete Outage of 220kV/110kV/11kV Areacode S5, 220kV/110kV/11kV Kanhirode S5, 220kV/110kV/11kV Orkattery, 220kV/110kV/31kV Taiparamba S5, 220kV/110kV/11kV Mylatty S5 and 220kV/110kV/1kW Anabalathara S5 of KSB: As per the reports submitted, the triggering incident was farth wire snapping and falling on 220kV Bus-2 and 280kV/110kV/11kV Areacode S5. 220kV Bus-2 and Bus-2 B4D Pourted and all the elements connected to the Buses tripped resulting in complete outage of 220kV/110kV/11kV Areacode S5. Beause of radial connection, this also resulted in complete outage of 220kV/110kV/11kV Kanhirode S5, 220kV/110kV/11kV Orkattery, 220kV/110kV/11kV Tailparamba S5, 220kV/110kV/11kV Mylatty S5 and 220kV/110kV Ambalathara S5.	3. 220kV Areakode- Oraktteri 4. 220kV Areakode- Kanhirode 5. 220kV Areakode- Elankur
10	GI-2	Andhra Pradesh	02-Jun-22 03:49	02-Jun-22 12:27	8 hrs 38 mins	0	0	0.00%	0.00%	40799	39209	Tripping of 400kV Bus-3 of 400kV/220kV Kalpakka SS of APTRANSCO: As per the reports submitted, 400kV Bus-3 B-phase differential protection operated at Kalpakka SS due to B-phase isolator failure. Immediately, BBP operated and all the elements connected to 400kV Bus-3 get tripped at 400kV/220kV Kalpakka SS.	
11	Gi-1	Tamil Nadu	02-Jun-22 11:45	02-Jun-22 12:10	25 mins	0	0	0.00%	0.00%	49693	48449	Tripping of 230kV Bus of 230kV/110kV Sembatty SS of TANTRANSCO: 230kV/110kV Sembatty SS has single Bus configuration at 230kV level. As per the reports submitted, the triggering incident was B-M fault in 230kV Mywadi Sembatty line. At Mywadi end, fault was sensed in 20ne-1, A/R operated and line tripped on persistent fault. At Sembatty end, fault was sensed in 20ne-1, Poole got opened and A/R initiated. B-phase current was observed even after opening the pole, LBB operated and all the elements connected to 230kV/Bus tripped. This resulted in tripping of 230kV Bus of 230kV/110kV Sembatty SS. 110kV Bus was intact during the event.	2. 230kV Mywadi Sembatty 3. 230kV Sembatty Karaikudi_PG

								Details o	of Grid E	vents during	the Mont	h of June 2022 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 th		% Loss of gener load w.r.t A Generation/I Regional Grid d Eve	ntecedent Load in the uring the Grid	Antecedent Generati		Brief details of the event (pre fault and post fault system conditions) (Tripped/Manually opened)
	(GI lor 2/ GD-1 to GD-5)				Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)		Antecedent Load (MW)	
12	GI-2	Andhra Pradesh	09-Jun-22 16:20	09-Jun-22 18:56	2 hrs 36 mins	0	0	0.00%	0.00%	48223		Tripping of 400kV/200kV Rayaka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO: As per the reports submitted, triggering incident was Rus-3 Y-phase CT 1 400kV/220kV Kajpakka S5 of APTRANSCO:
13	GI-2	Karnataka	15-Jun-22 17:56	15-Jun-22 18:21	25 mins	0	0	0.00%	0.00%	37857	41935	Tripping of 400kV Bus-1 at 400kV/220kV Nelamangala SS of KPTCL: In the antecedent conditions due to link rod cut in the limb to R-ph Breaker 1. 400/220kV Nelamangala Edital - d 400kV Neelamangala-Hassan line the limb was closed without opening. With the closing of isolator for preparatory works, voltage was 1. 400 kV Nelamangala - Bdadi - and 2 d 400 kV Neelamangala-Hassan feeder. As per the reports submitted, the triggering incident was the closing 1. 400 kV Nelamangala - Bdadi - and 2 d 400 kV Nelamangala - Haysan feeder. As per the reports submitted, the triggering incident was the closing 1. 400 kV Nelamangala - Myoor 2 - and 2 d 400 kV Nelamangala - Haysan feeder. As per the reports submitted, the triggering incident was the closing 1. 400 kV Nelamangala - Myoor 2 - and 2 d 400 kV Nelamangala - Myoor 2 - and 2 d 400 kV Nelamangala - Myoor 2 - and 2 - d 400 kV Nelamangala - Myoor 2 - and 2 - d 400 kV Nelamangala - Myoor 2 - and 2 - d 400 kV Nelamangala - submitted - d 400 kV Nelamangala - submitted - d 400 kV Nelamangala - d
14	GI-2	Karnataka	17-Jun-22 16:51	17-Jun-22 18:53	2 hrs 02 min	0	0	0.00%	0.00%	39465	44264	Tripping of 400kV Bus-2 at 400kV/220kV Guttur SS of KPTCL: As per the reports submitted, the triggering incident was the maloperation of 2. 400 kV Kaiga- Guttur-2 Zone 2 Bus Bar protection operation in 400kV Bus-2 at 400kV/220kV Guttur SS. Immediately, all the elements connected to the Bus-2 tripped. 3. 400 kV Guttur - Narendra-2 4. 400kV/220kV Guttur CT-2

						Detai	ls of Gı	rid Even	ts during	the Month	of June 2	2022 in Eastern 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 of load duri Ev	ng the Grid	of load w.r. Generation Regional Gr	eneration / loss t Antecedent h/Load in the rid during the Event	Antecedent Genera 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	Atri	14-06-2022 14:57	14-06-2022 15:50	00:53	0	100	0.00%	0.41%	28416	24370	At 14:57 Hrs, 220 kV Bus-1 & 2 at Atri tripped. As informed, switchyard lighting cable snapped and fell on 220 kV Bus-2 at Atri. Both 220 kV Buses tripped and total power failure occurred at Atri S/s. Around 100 kW load loss at Atri. Backi and Khurda reported by Odicha SLDC	220 kV Bus-1 & 2 at Atri 220 kV Atri-Pandiabili-D/c 220 kV Atri-Narendrapur D/c 220 kV Mendhasai-Atri-1
2	GD-1	Chatra	17-06-2022 11:36	17-06-2022 14:00	02:24	0	20	0.00%	0.09%	27946	21740	At 11:36 Hrs, 220 kV Daltonganj-Chatra D/c tripped due to R_N fault leading to total power failure at 220/132 kV Chatra S/s. Load loss of 20 MW reported during the event by Jharkhand SLDC. Inclement weather reported at Daltonganj and Chatra.	220 kV Daltonganj-Chatra D/c
3	GD-1	Chatra	18-06-2022 09:05	18-06-2022 09:55	00:50	0	15	0.00%	0.07%	27326	20764	At 09:05 Hrs, 220 kV Daltonganj-Chatra D/C tripped due to B_N fault leading to total power failure at 220/132 kV Chatra S/s. Load loss of 15 MW reported during the event by Jharkhand SLDC. Inclement weather reported during the event at Daltonganj and Chatra.	220 kV Daltonganj-Chatra D/c
4	GD-1	Meramundali	20-06-2022 16:31	20-06-2022 17:10	00:39	890	15	3.30%	0.07%	26934	20100	At 16:30 Hrs, R_ph fault occurred in 400 kV New Duburi-Meramundali-2 & B_ph fault occurred in 400 kV New Duburi-Meramundali-1. While clearing the fault of 400 kV New Duburi-Meramundali-2, tie bay of the line at Meramundali remained stuck, which does not have LBB protection. This led to tripping of all elements in 400 kV Bus-1 at Meramundali. 40 kV SUPL 5/K, 400 kV GMR (STU)5/K became dead. U#3 (350 MW) at GMR and U#1 (600 MW) at JITPL tripped. Total 890 MW generation loss occurred, and 15 MW net load loss occurred at JSPL.	400 kV Meramundali-Lapanga-2 400 kV Meramundali-Mendhasal-1 400 kV Meramundali-GMR (STU)
5	GD-1	Daltonganj, Chatra, Garhwa	22-06-2022 15:25	22-06-2022 17:58	02:33	0	120	0.00%	0.53%	29254	22539	At 15:25 Hrs on 22nd June 2022, 220 kV Bus-1 & 2 at Daltonganj tripped on bus bar protection. Power supply to 220/132 kV Garhwa and Chatra 5/s and radially fed downstream areas interrupted. As reported by SLDC Jharkhand, 120 MW load loss occurred at Daltonganj, Garhwa and Chatra.	220 kV Bus-1 & Bus-2 at Daltonganj 400/220 kV ICT-1 & 2 at Daltonganj 20 kV Daltonganj-Gartwa-0/c 220 kV Daltonganj-Gartwa-0/c 220 JK Daltonganj-Chatra D/c 20/132 kV ICT-1 & 2 at Daltonganj 132 kV Daltonganj-Daltonganj D/c

						D	etails of Grid	Events duri	ing the Month	of June 2	022 in North	Eastern Region	
	Category of Grid		Time and Date of			Loss of gene	eration / loss of load		tion / loss of load w.r.t veration/Load in the		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)	the Grid Event Load Loss (MW)	Antecedent Gen % Generation Loss(MW)	wration/Load in the % Load Loss (MW)	Reg Antecedent Generation (MW)	ional Grid Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
												Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Myntdu Leshka - Khielinfat D/C lines. At 22:13 hrs on 01.06.2022, 132 kV Myntdu Leshka - Khielinriat D/C lines tripped . Due to tripping of these elements, Leshka	
1	GD-I	Leshka Generating Station of Meghalaya Power System	01-Jun-22 22:13	01-Jun-22 22:33	0:20:00	70	0	2.35%	0.00%	2976	2995	Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path. Power supply was extended to Leshka Generating Station of Meghalaya Power System by charging 132 kV Leshka-	132 kV Myntdu Leshka - Khleihriat D/C lines
												Khleihriat(ME) 1 line at 22:33 hrs. on 01.06.22. Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Myntdu Leshka - Khleihriat D/C lines.	
2	GD-I	Leshka Generating Station of Meghalaya Power System	02-Jun-22 03:07	02-Jun-22 03:15	0:08:00	48	o	2.11%	0.00%	2279	2271	Lesma - Kniennat UV, Lines. At 03:07 hrs on 02.06.2022, 132 kV Myntdu Leshka - Khielhriat D/C lines tripped . Due to tripping of these elements, Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of exacutation 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 Leshka- Khleihrat(ME) 1 line at 03:15 hrs. on 02:06:22	
												Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System were connected with the rest of NER Grid through 132 KV Alzwai-Lungmual line. 132 kV Lunglei - Meiriat was under shutdown to avoid overloading of 132 kV Alzawi-Lungmual line.	
3	GD-I	Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System	02-Jun-22 14:46	02-Jun-22 15:13	0:27:00	0	24	0.00%	1.00%	2521	2408	At 1446 hrs on 02.06 2022, 132 VV Alzwal-Lungmual line tripped. Due to tripping of this element, Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	132 kV Aizwal-Lungmual line
												Power supply was extended to Lungmual and Medriat (P&ED Mizoram) areas of Mizoram Power System by charging 132 kV Aizwal-Lungmual line at 15:13 hrs on 02.06.22.	
4	GD-I	Dhaligaon, Barpeta and part load of Bornagar area of Assam Power System	11-Jun-22 22:05	11-Jun-22 22:09	0:04:00	0	60	0.00%	2.14%	2243	2800	Dhaligaon, Barpeta and part load of Bornagar area of Assam Power System were connected with the rest of NER Grid through 132 kV BTS - Ohaligaon JD(lines. 132 kV Nalibari-Barpeta line was kept open by Assam for system requirements. At 22:05 hrs on 11.06 z022, 132 kV BTS - Dhaligaon DJC lines tripped. Due to tripping of these elements, Dhaligaon, Barpeta and part load of Borzogar area of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Dhaligaon, Barpeta and part load of Bornagar area of Assam Power System by charging 132 kV BTS*. Ohaligaon DJC lines at 22:00 hrs on 11.06 22.	132 kV BTPS - Dhaligaon D/C lines
5	GD-1	Dhaligaon, Barpeta and part load of Bornagar area of Assam Power System	11-Jun-22 23-08	11-jun-22 23:31	0:23:00	0	40	0.00%	1.54%	2326	2604	Dhaligion, Barpeta and part load of Bornagar area of Assam Power System were connected with the rest of NER Grid through 132 kV 8175 - Ohaligion D/C lines. 132 kV Nalbair-Barpeta line was kept open by Assam for system requirements. At 23.08 hrs on 11.06.2022, 232 kV 8175 - Dhaligion D/C lines tripped. Due to tripping of these elements, Dhaligion, Barpeta and part load of Bornagar area of Assam Power System were separated from rest of NER Grid thusequently collapsed due to no source available in these areas. Power supply was extended to Dhaligion, Barpeta and part load of Bornagar area of Assam Power System by charging 132 kV 8175 - Ohaligion Iline at 233 its no 11.06 622.	132 kV BTPS - Dhaligaon D/C lines
6	GD-I	Leshka Generating Station of Meghalaya Power System	12-Jun-22 20:46	12-Jun-22 21:07	0:21	84	0	3%	0%	2583	2749	Leshka Generating Station of Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka - Khlehriat D/C lines. At 20.46 hrs on 12.06.22, 132 kV Myntdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these elements, Leshka Generating Station of Meghalaya Power System was separated from rest of KER Grid and subsequently collapsed due to loss of	132 kV Myntdu Leshka - Khleihriat D/C lines
												evacuation path. Power supply was extended to Leshka Generating Station of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khlehrint 11 line at 21.07 hrs on 12.06.22.	
7	GD-I	Lumshnong & Amrit Area of Meghalaya Power System	12-Jun-22 20:46	12-Jun-22 22:35	1:49	0	30	0%	1%	2583	2749	Lumshnong & Amrit Area of Meghalaya Power System was connected with rest of NER grid through 132 kV Lumshnong- Panchgram and 132 kV Khlehriat-Lumshnong lines. At 2046 hr so 01.206.22, 132 kV Lumshnong-Panchgram and 132 kV Khlehriat-Lumshnong lines tripped. Due to tripping of these elements, Lumshnong & Amrit Area of Meghalaya Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power supply was extended to Lumshnong & Amrit Area of Meghalaya Power System by charging 132 kV Khlehriat-Lumshnong line at 22-35 hrs on 12.06.22.	132 LV Lumshnong-Panchgram and 132 LV Khleihriat- Lumshnong lines.
8	GD-I	Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System	14-Jun-22 15:03	14-Jun-22 15:50	0:47:00	0	30	0.00%	1.53%	2252	1956	Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System were connected with the rest of NER Grid through 132 VA Zaavi - Lungmual line. 132 VV Lunglei - Melriat line was under shutdown to avoid overloading of 132 VA Xizavi-Lungmual line. 115:03 hrs on 14.06.22. 132 VM Xizavi-Lungmual line tripped. Due to tripping of this element, Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. Power was extended to Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System by charging 132 VA Xizavi-Lungmual line at 15:50 hrs on 14.06.22	132 kV Alzawi-Lungmual line

						D	etails of Grid	Events dur	ing the Month	of June 2	022 in North	Eastern Region	
No.	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)		ration / loss of load he Grid Event Load Loss (MW)		tion / loss of load w.r.t neration/Load in the % Load Loss (MW)		eneration/Load in the gional Grid Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
												Leshka Generating Station of Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka - Khleihriat D/C lines.	
9	GD-I	Leshka Generating Station of Meghalaya Power System	14-Jun-22 17:03	14-Jun-22 17:15	0:12:00	84	0	3.53%	0.00%	2380	2045	At 17:03 hrs on 14.06.22, 132 kV Myntdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these elements, Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of exacutation 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 - Bileitriat 1 line at 17:15 hrs on 14:06:22.	
												Leshka Generating Station of Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka - Khleihriat D/C lines.	
10	GD-I	Leshka Generating Station of Meghalaya Power System	15-Jun-22 04:05	15-Jun-22 04:11	0:06:00	84	0	2.89%	0.00%	2905	1511	At 04.05 hrs on 15.06.22, 123 kV Myndu Leshka - Khleihriat D/C lines tripped. Due to tripping of these elements, Leshka Generating Station of Meghalaya Power System was 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 1 line at 04:11 hrs on 15.06.22.	
												Dimapur (DoP, Nagaland) area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) D/C lines.	
11	GD-I	Dimapur (DoP, Nagaland) area of Nagaland Power System	15-Jun-22 09:22	15-Jun-22 10:06	0:44:00	0	21	0.00%	1.17%	3008	1795	At 09:22 hrs on 15.06.22, 132 kV Dimapur (PG) - Dimapur (PGP, Nagaland) D/C lines trigged. Due to trigging of these elements, Dimapur (OP, Nagaland) 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 (DoP, Nagaland) D/C lines
												Power was extened to Dimapur (DoP, Nagaland) area of Nagaland Power System by charging 132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 line at 10:06 hrs on 15:06:22	
												Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System were connected with the rest of NER Grid through 132 KV Aizavi – Lungmual line. 132 kV Lunglei – Meiriat line was under shutdown to avoid overloading of 132 kV Aizavi-Lungmual line.	
12	GD-I	Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System	16-Jun-22 12:00	16-Jun-22 12:18	0:18:00	0	28	0.00%	1.68%	2546	1669	At 12:00 hrs on 16.06.22, 132 kV Alzawi-Lungmual line tripped. Due to tripping of this element, Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Aizawl-Lungmual line
												Power was extended to Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System by charging 132 kV Aizawl- Lungmual line at 12:18 hrs on 16:06:22	
												Dhaligaon, Barpeta and part load of Bornagar areas of Assam Power System were connected with the rest of NER Grid through 12 Vk BTPS - Dhaligaon D/C lines. 132 kV Nalabari-Barpeta & 132 kV Gossaigaon-Gauripur lines were kept open by Assam on system requirements.	
13	GD-I	Dhaligaon, Barpeta and part load of Bornagar areas of Assam Power System	16-Jun-22 23:06	16-Jun-22 23:12	0:06	0	34	0%	2%	3044	1755	At 23:06 hrs on 16.06.2022, 132 kV BTPS - Dhaligaon D/C lines tripped. Due to tripping of these elements, Dhaligaon, Barpeta and part load of Bornagar areas of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV BTPS - Dhaligaon D/C lines
												Power supply was extended to Dhaligaon, Barpeta and part load of Bornagar areas of Assam Power System by charging 132 kV BTPS - Dhaligaon D/C lines at 23:12 hrs on 16:06:22.	
												Leshka Generating Station of Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka - Khleihriat D/C lines.	
14	GD-I	Leshka Generating Station of Meghalaya Power System	17-Jun-22 07:03	17-Jun-22 07:17	0:14	84	0	3%	0%	3016	1633	A 07:03 hrs on 17.06.22, 123 kV Myndu Leshka - Khleihriat D/C lines tripped. Due to tripping of these elements, Leshka Generating Statution of Meghalaya Power System was 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 1 line at 07:17 hrs on 17.06.22.	
												Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System were connected with the rest of NER Grid through 132 KV Aizawi – Luangmual line. 132 kV Lunglei – Meiriat line was under shutdown to avoid overloading of 132 kV Aizawi-Lungmual line.	
15	GD-I	Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System	17-Jun-22 20:25	17-Jun-22 21:22	0:57	0	29	0%	1%	3126	2299	At 20:25 hrs on 17.06.22, 132 kV Alzawi-Lungmual line tripped. Due to tripping of this element, Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Aizawl-Lungmual line
												Power was extended to Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System by charging 132 kV Aizawi- Lungmual line at 21:22 hrs on 17.06.22	
												Lungmual and Meiriat (P&ED Mizoram) areas of Mizoram Power System were connected with the rest of NER Grid through 132 KV Aizawi - Luangmual line. 132 kV Lunglei - Meiriat was under shutdown to avoid overloading of 132 kV Aizawi-Lungmual line.	
16	GD-I	Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System	18-Jun-22 00:41	18-Jun-22 00:53	0:12	o	14	0%	1%	3066	1528	At 00:41 hrs on 18.06.22, 12.21 VAIzowk-Lungmual line tripped. Due to tripping of this element, Lungmual and Melrias (P&ED Milozrani) areas of Malozrani Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas	132 kV Alzawl-Lungmual line
												Power was extended to Lungmual and Melriat (P&ED Mizoram) areas of Mizoram Power System by charging 132 kV Aizawi- Lungmual line at 00:53 hrs on 18.06.22	

						Details of (Frid Events d	uring the Montl	1 of June 2	022 in North 1	Eastern Region	
No.	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Loss of generation / loss of lo during the Grid Event Generation Loss(MW)	Antecedent			eneration/Load in the cional Grid Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
									(111)		EPIP-II area and New Umtru Generating station of Meghalaya Power System were connected with rest of NER grid through 132 KV Killing-EPIP II D/C, 132 KV Umtru-EPIP II D/C, 132 KV New Umtru-EPIP II, 132 KV New Umtru-Jimtru, 132 KV EPIP II-EPIP I D/C Lines.	
17	GD-I	EPIP-II and New Umtru Generating station of Meghalaya Power System	18-Jun-22 08:48	18-Jun-22 09:43	0:55	40 20	1%	1%	2961	1695	At 08:48 hrs on 18:05:22, 132 kV Killing-EPIP II D/C, 132 kV Umtru-EPIP II D/C, 132 kV New Umtru-EPIP II, 132 kV New Umtru- Umtru, 132 kV EPIP II-D/C lines tripped. Due to tripping of these elements, EPIP-II area and New Umtru Generating station of Meghalaya Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation immarch in these areas:	132 kV Killing-EPIP II D/C, 132 kV Umtru-EPIP II D/C, 132 kV New Umtru-EPIP II, 132 kV New Umtru-Umtru, 132 kV EPIP II - EPIP I D/C IIes.
											Power supply was extended to EPIP-II area and New Umtru Generating station of Meghalaya Power System by charging 132 KV EPIP II - EPIP I at 09:43 hrs on 18.06.22	
											Leska Generating station of Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka - Khleihriat D/C lines.	
18	GD-I	Leshka Generating Station of Meghalaya Power System	19-Jun-22 09:20	19-Jun-22 09:33	0:13	84 0	3%	0%	2742	1641	At 09:20 hrs on 19:06:22, 132 kV Myndu Leshka - Khleikriat D/C lines tripped. Due to tripping of these elements, Leska Generating station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path.	132 kV Myntdu Leshka - Khleihriat D/C lines
											Pasighat, Roing, Texu & Namsai Areas of Arunachal Power System were connected with the rest of NER Grid through 132 kV Along-Pasighat line.	
19	GD-I	Pasighat, Roing, Tezu & Namsai Areas of Arunachal Power System	19-Jun-22 12:16	19-Jun-22 13:34	1:18	0 13	0%	1%	2144	1750	At 12:16 hrs on 13:06.2022, 132 IV Along-Pasighat line tripped. Due to tripping of this element, Pasighat, Roing, Tetu & Namaia areas of Annachah 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
											Power was extended to Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Along Pasighat line at 13:34 hrs on 13:06:2022.	
											Dimapur (DoP, Nagaland) area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) D/C lines.	
20	GD-I	Dimapur (DoP, Nagaland) area of Nagaland Power System	19-Jun-22 21:32	19-Jun-22 22:18	0:46	0 68	0%	3%	3018	2153	At 21:32 hrs on 19.05.27, 133 VV Dimagur (PO) - Dimapur (DoP, Nagaland) D/C lines tripped. Due to tripping of these elements Dimapur (DoP, Nagaland) are of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) D/C lines
											Power was extended to Dimapur (DoP, Nagaland) area of Nagaland Power System by charging 132 kV Dimapur (PG) - Dimapur (DoP, Nagaland) 1 line at 22:18 hrs on 19.06.22	
											Leshka Generating Station of Meghalaya Power System was connected with rest of NER grid through 132 kV Leska- Khlehriat[NE] 2 line. 132 kV Leska-Khlehriat[NE] 1 line was under outage since 05:55 hrs on 25.06.2022.	
21	GD-I	Leshka Generating Station of Meghalaya Power System	25-Jun-22 06:04	25-Jun-22 06:19	0:15	84 0	3%	0%	2940	2070	At 06:04 hrs on 25.06.22, 132 kV Leska-Khlelhrist(ME) 2 line tripped. Due to tripping of this element, Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path.	132 kV Myntdu Leshka - Khleihriat 2 line
											Power supply was extended to Leihka Generating Station of Meghalaya Power System by charging 132 kV Leska-Khleihriat[ME 2 line at 06:19 hrs on 25.06.22.	
											Tenga, Khupi & Dikshi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Balipara-Tenga line.	
22	GD-I	Tenga, Khupi & Dikshi HEP of Arunachal Pradesh Power System	26-Jun-22 18:19	26-Jun-22 18:35	0:16	13 21	0%	1%	2800	2608	At 18:19 hrs on 26.06.22, 121.24 V Balipara-Tenga line tripped. Due to tripping of this element, Tenga, Khupi & Diskhi HEP of Arunachia Praden Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	132 kV Balipara-Tenga line
											Power supply was extended to Tenga, Khupi & Dikhi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 18:35 hrs of 26:06.22 Leshka Generaling station of Meghalaya Power System was connected with rest of NER grid through 132 kV Myntdu Leshka -	
22	GD-1	Leshka Generating Station of	20 km 22 02-25	28-Jun-22 02:48	0:18	84 0		04	3066	2110	Khleihriat D/C lines At 02:30 hrs on 28.06.22, 132 kV Myntdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these elements, Leshka	122 later and stables. Which and Africa
23	0 <i>0</i> -1	Meghalaya Power System	28-Jun-22 02:30	28-JUN-22 U2:48	U:18	84 0	3%	0%	3006	2110	Generating station of Meghalaya Power System was separated from the rest of NER Grid and subsequently collapsed due to loss of execution path. Power supply was extended to Leshka Generating station of Meghalaya Power System by charging 132 kV Leshka-	132 kV Myntdu Leshka - Khleihriat D/C lines
											Khehrink[ME] I line at 02:48 hrs on 28.06.22. Tenga, Khupi areas & Dikihi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 k0 Balgara - Tenga Line.	
24	GD-I	Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System	28-Jun-22 10:43	28-Jun-22 11:10	0:27	15 6	1%	0%	2949	1986	At 10:43 hrs on 28.06.22, 132 kV Ballpara-Tenga Line tripped. Due to tripping of this element, Tenga, Khupi areas & Dikbhi HEF of Arunahal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	132 kV Balipara - Tenga line
											Power supply was extended to Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 11:10 hrs of 28.06.22	
											Along. Pasighat, Boing, Tezu & Namsal Areas of Arunachal Power System were connected with the rest of NER Grid through 132 KV Daporijo-Along line. XI 16:00 hro no 28.06.2022, 132 KV Daporijo-Along line tripped. Due to tripping of this element, Along, Pasighat, Roing, Tezu &	
25	GD-I	Along, Pasighat, Roing, Tezu & Namsai Areas of Arunachal Power System	28-Jun-22 16:00	28-Jun-22 18:31	2:31	0 13	0%	1%	3053	2043	Namsai areas of Arunachal Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Daporijo - Along line
											132 KV Daporijo - Along line was declared faulty at 18-31 hrs on 28.06.22. Power supply was extended to Along Pasighat, Rolng, Tetu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Daporijo-Along line at 12:16 hrs on 29.06.2022.	

						D	etails of Grid	Events dur	ing the Month	1 of June 2	022 in North 1	Eastern Region
	Category of Grid Event		Time and Date of	Time and Date of	Duration		eration / loss of load the Grid Event		ation / loss of load w.r.t neration/Load in the		neration/Load in the ional Grid	
l No.	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Restoration	(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
										(111)		Nirjuli area of Arunachal Power System was connected with the rest of NER Grid through 132 kV Pare-Lekhi and 132 kV Lekhi- Nirjuli lines. 132 kV Gohpur-Nirjuli line was under shutdown to control overloading of 132 kV Pare-Lekhi line.
26	GD-I	Nirjuli Area of Arunachal Pradesh Power System	28-Jun-22 12:32	28-Jun-22 12:51	0:19	0	20	1%	1%	2945	1993	At 12:32 hrs on 28.06.2022,132 kV Pare-Lekhi and 132 kV Lekhi-Nirjuil lines tripped. Due to tripping of these elements, Nirjuil area of Arunachial Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in this rea.
												132 kV Pare-Lekhi and 132 kV Lekhi-Niriuli lines was declared faultv at 12:51 hrs on 28.06.22 due to tower collaose. 132 kV
27	GI-2	Assam	01-Jun-22 17:28	01-Jun-22 19:00	1:32	15	0	1%	0%	2294	2456	AGBPP Unit 7 tripped at 17:28 hours on 01-06-22 due to tripping of Gas boost compressor. Revision done from Block no. 77 on AGBPP Unit 7 01-06-22
28	GI-1	Tripura	03-Jun-22 07:50	03-Jun-22 09:30	1:40	63	0	3%	0%	2485	2188	AGTCCPP Unit 3, AGTCCPP Unit 6 & AGTCCPP Unit 4 tripped at 07:50 hours on 03:06-22 due to UAT blast. Revision done from Block no. 39 on 03:06-22
29	GI-2	Tripura	07-Jun-22 12:35	07-Jun-22 14:00	1:25	320	0	14%	0%	2230	2438	Palatana Unit GT-1 tripped at 13:27 hours on 07-06-22 due to stator earth fault. and Palatana Unit ST-1 tripped due to tripping of GTG. Revision done from Block no. 57 on 07-06-22
30	GI-2	Assam	10-Jun-22 17:22	10-Jun-22 19:00	1:38	227.5	0	8%	0%	2987	2396	BgTPP Unit 1 tripped at 17:28 hours on 01-06-22 due to AVR fault. Revision done from Block no. 77 on 10-06-22 BgTPP Unit 1
31	GI-2	Tripura	11-Jun-22 13:27	11-Jun-22 15:00	1:33	316	0	12%	0%	2669	2341	Palatana Unit GT-1 tripped at 13:27 hours on 11:06-22 due to Joss of flame and Palatana Unit ST-1 tripped due to tripping of GTG. Revision done from Block no. 61 on 11:06-22 Palatana Unit ST-1
32	GI-2	Assam	11-Jun-22 13:52	11-Jun-22 15:30	1:38	227.5	0	9%	0%	2405	2380	BgTPP Unit 3 tripped at 13:52 hours on 11-06-22 due to low drum level. Revision done from Block no. 61 on 11-06-22 BgTPP Unit 3
33	GI-2	Assam	14-Jun-22 18:06	14-Jun-22 19:30	1:24	144.5	0	5%	0%	3102	2294	Kameng Unit 2 tripped at 18:06 hours on 14-06-22 due to Thrust bearing temperature high. Revision done from Block no. 79 on 14:06-22 Kameng Unit 2
34	GI-2	Assam	16-Jun-22 03:11	16-Jun-22 04:30	1:19	144.5	0	6%	0%	2494	1417	Kameng Unit 2 tripped at 03:11 hours on 16-06-22 due to Thrust pad temparature high. Revision done from Block no. 19 on 16- 06-22
35	GI-1	Tripura	17-Jun-22 22:45	18-Jun-22 00:30	1:45	31	0	1%	0%	2437	2046	AGTCCPP Unit 3 tripped at 22:45 hours on 17-06-22 due to Auxillary Power Failure. Revision done from Block no 3 on 18-06- 22