Details of Grid Events during the Month of April 2022 in Northern Region

Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional 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	UTTAR PRADESH	02-Apr-2022 12:12	02-Apr-2022 18:36	6:24	0	0	0.000	0.000	46965	48994	400 KV Noida Sec 148-Noida Sec 123 (UP) Ckt-1 & 2 tripped due to DT received from Noida Sec 123 (UP) end due to problem in control cable. As per PMU, no fault is observed in the system.	1) 400 KV Noida Sec 148-Noida Sec 123 (UP) Ckt-2 2) 400 KV Noida Sec 148-Noida Sec 123 (UP) Ckt-1
2	GI-2	UTTAR PRADESH	06-Apr-2022 21:22	06-Apr-2022 22:24	1:02	0	0	0.000	0.000	47883	53347	400 KV Noida Sec 148-Noida Sec 123 (UP) Ckt-1 & 2 and 400 KV Gr.Noida_2(UPC)-Noida Sec 148 (UP) Ckt-1 & 2 tripped due to failure of DC Source-I at 400kV S/S Noida Sector-148.As per PMU, no fault is observed in the system. In antecedent conditions, 400 KV Gr.Noida_2(UPC)-Noida Sec 148 (UP) Ckt-1 & 2 carrying 126MW & 127MW respectively.	1) 400 KV Noida Sec 148-Noida Sec 123 (UP) Ckt-2 2) 400 KV Noida Sec 148-Noida Sec 123 (UP) Ckt-1 3) 400 KV Gr.Noida_2(UPC)-Noida Sec 148 (UP) Ckt-2 4) 400 KV Gr.Noida_2(UPC)-Noida Sec 148 (UP) Ckt-1
3	GD-1	HARYANA	09-Apr-2022 12:47	09-Apr-2022 15:50	3:03	0	150	0.000	0.323	49037	46496	400 KV Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-2 tripped on R-N phase to earth fault after unsuccessful A/R operation, fault distance was 11.1km & fault current was 13.3kA from Daulatabad end. At the same time, 400 KV Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-1 also tripped from Daulatabad end only. As per PMU, R-N phase to earth fault with unsuccessful A/R observed. As per SCADA, change in demand of approx. 150MW is observed in Haryana control area. In antecedent condition, 400 KV Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-1 & Ckt-2 were carrying approx. 206MW & 208MW respectively.	1) 400 KV Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-1 2) 400 KV Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-2
4	GD-1	HIMACHAL PRADESH	09-Apr-2022 16:33	09-Apr-2022 17:48	1:15	620	100	1.299	0.204	47743	49028	At 16:25 Hrs, 400kV Kala Amb-Wangtoo ckt tripped on Y-B phase to phase fault. As 400 KV Wangto_GIS(HP)-Sorang(Greenko) (Greenko) Ckt-1 & 400 KV Nathpa Jhakri(SJ)-Karcham Wangtoo(JSW) (HBPCL) Ckt-1 were already under shutdown, all the power of Karcham and Baspa generation was evacuating from 400 KV Nathpa Jhakri(SJ)-Karcham Wangtoo(JSW) (HBPCL) Ckt-2 and 400 KV Karcham Wangtoo(JSW)-Wangto_GIS(HP) (HPPTCL) Ckt-1 & Ckt-2 (via 400/220 kV 315 MVA ICT 1&2 at Wangto_GIS(HP)). Further at 16:33 Hrs, 400 KV Nathpa Jhakri(SJ)-Karcham Wangtoo(JSW) (HBPCL) Ckt-2 tripped on R-Y phase to phase fault. Due to loss of evacuation path, all the running units of Karcham and Baspa HEP tripped and 400kV Karcham Wangtoo S/s became dead. As per PMU, R-Y phase to phase fault is observed. As per SCADA, loss of generation of approx. 440MW at Karcham Wangtoo HEP and 180MW at Baspa HEP and change in load of approx. 100MW is observed in HP control area. In antecedent condition, 400 KV Nathpa Jhakri(SJ)-Karcham Wangtoo(JSW) (HBPCL) Ckt-2 and 400 KV Karcham Wangtoo(JSW)-Wangto_GIS(HP) (HPPTCL) Ckt-1 & Ckt-2 were carrying 615MW, 16MW & 15MW respectively.	1) 250 MW Karcham Wangtoo HPS - UNIT 3 2) 400 KV Nathpa Jhakri(SJ)-Karcham Wangtoo(JSW) (HBPCL) Ckt-2 3) 250 MW Karcham Wangtoo HPS - UNIT 1 4) 400 KV Baspa(JP)-Karcham Wangtoo(JSW) (HBPCL) Ckt-1 5) 400/220 kV 315 MVA ICT 2 at Wangto_GIS(HP) 6) 400/220 kV 315 MVA ICT 1 at Wangto_GIS(HP) 7) 400 KV Baspa(JP)-Karcham Wangtoo(JSW) (HBPCL) Ckt-2 8) 400 KV Karcham Wangtoo(JSW)-Wangto_GIS(HP) (HPPTCL) Ckt-1 9) 250 MW Karcham Wangtoo HPS - UNIT 1 10) 250 MW Karcham Wangtoo HPS - UNIT 3
5	GD-1	HARYANA	11-Apr-2022 17:21	11-Apr-2022 20:18	2:57	0	165	0.000	0.326	46455	50658	220 KV Manesar(PG)-Mau(HV) (HVPNL) Ckt-1 & Ckt-2 both tripped on B-N phase to earth fault, fault distance was 8.3km & fault current was 8.8kA from Mau end. As per PMU, multiple B-N fault is observed. as per SCADA, change in demand of approx. 165MW is observed in Haryana control area. In antecedent condition, 220 KV Manesar(PG)-Mau(HV) (HVPNL) Ckt-1 & Ckt-2 were carrying 50Mw & 115MW respectively.	1) 220 KV Manesar(PG)-Mau(HV) (HVPNL) Ckt-1 2) 220 KV Manesar(PG)-Mau(HV) (HVPNL) Ckt-2
6	GD-1	UTTRAKHAND	13-Apr-2022 16:23	13-Apr-2022 16:53	0:30	70	0	0.144	0.000	48527	49304	220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-1 tripped on R-Y phase to phase fault. At the same time, 220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-2 also tripped on PLCC maloperation. Further, 33MW Unit-1 & Unit-3 at Singoli Bhatwari also tripped due to loss of evacuation path. As per PMU, R-Y phase to phase fault is observed. As per SCADA, change in generation of approx. 70MW is observed at Singoli Bhatwari HEP. In antecedent condition, 220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-1 & Ckt-2 were carrying 35MW each.	1) 220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-2 2) 220 KV Singoli Bhatwari(Singoli(LTUHP))-Srinagar(UK) (PTCUL) Ckt-1
7	GD-1	RAJASTHAN	13-Apr-2022 16:45	13-Apr-2022 17:11	0:26	140	0	0.293	0.000	47853	49554	765 KV Bhadla_2 (PG)-Fatehgarh_II(PG) (PFTL) Ckt-2 tripped on R-N fault during heavy wind storm, fault distance was 2km from Bhadla_2 end. At the same time, 765 KV Bhadla_2 (PG)-Fatehgarh_II(PG) (PFTL) Ckt-1 also tripped on R-N fault along with 220kV Fatehgarh2-Renew Sunbright Solar Ckt-1 from Renew Sunbright end, 220 KV Adani Renew Solar Park - PSS3 & PSS4_ckt. As per PMU, R-N & Y-N fault with delayed clearance in 400ms is observed. As per SCADA SOE, it seems that 765 KV Bhadla_2 (PG)-Fatehgarh_II(PG) (PFTL) Ckt-2 tripped on R-N fault with unsuccessful A/R operation from Bhadla_2 end & no A/R operation from Fatehgarh_2 end, further after 600ms 765 KV Bhadla_2 (PG)-Fatehgarh_II(PG) (PFTL) Ckt-1 tripped on R-N fault with delayed clearance of approx. 400ms. As per SCADA, change in solar generation of approx. 140MW is observed due to tripping of 220kV Fatehgarh2-Renew Sunbright Solar Ckt-1. In antecedent condition, 765 KV Bhadla_2 (PG)-Fatehgarh_II(PG) (PFTL) Ckt-1 & Ckt-2 were carrying 421MW & 424MW respectively.	1) 220 KV Renew SunBright SL_FGARH_PG (RSBPL)-Fatehgarh_II(PG) (RENEW SUN BRIGHT (RSBPL)) Ckt-1 2) 220 KV Adani RenewPark_SL_FGARH_FBTL (AREPRL)-AHEJ4L PSS 3 HB_FGRAH_FBTL (AHEJ4L) (AREPRL) Ckt-1 3) 220 KV Adani RenewPark_SL_FGARH_FBTL (AREPRL)-AHEJ4L PSS 4 HB_FGRAH_FBTL (AHEJ4L) (AREPRL) Ckt-1 4) 765 KV Bhadla_2 (PG)-Fatehgarh_II(PG) (PFTL) Ckt-2 5) 765 KV Bhadla_2 (PG)-Fatehgarh_II(PG) (PFTL) Ckt-1
8	GD-1	HARYANA	20-Apr-2022 09:13	20-Apr-2022 11:27	2:14	0	80	0.000	0.150	48727	53280	220 KV Charkhi Dadri(BB)-Mahindergarh(HV) (HVPNL) Ckt-1 & 220 KV Charkhi Dadri(BB)-Lulahir(HV) (HVPNL) Ckt-1 both tripped on df/dt relay operation. As per PMU, no fault observed and no rate of change of frequency in the range of 0.2Hz/sec observed. As per SCADA, change in load of approx. 80MW is observed in Haryana control area. In antecedent condition, 220 KV Charkhi Dadri(BB)-Mahindergarh(HV) (HVPNL) Ckt-1 & 220 KV Charkhi Dadri(BB)-Lulahir(HV) (HVPNL) Ckt-1 were carrying 83MW & 8MW respectively.	1) 220 KV Charkhi Dadri(BB)-Mahindergarh(HV) (HVPNL) Ckt-1 2) 220 KV Charkhi Dadri(BB)-Lulahir(HV) (HVPNL) Ckt-1
9	GD-1	J & K	21-Apr-2022 03:59	21-Apr-2022 05:05	1:06	0	90	0.000	0.176	43781	51117	220 KV Kishenganga(NH)-Wagoora(PG) (PG) Ckt-2 tripped on R-N phase to earth fault after unsuccessful A/R operation, fault distance was 9.6km & fault current was 12.26kA. At the same time, 220 KV Kishenganga(NH)-Wagoora(PG) (PG) Ckt-1 also tripped on B-N phase to earth fault after unsuccessful A/R operation, fault distance was 9.6km & fault current was 12.26kA. As per PMU, R-N phase to earth fault with unsuccessful A/R operation followed by B-N phase to earth fault with unsuccessful A/R operation is observed. As per SCADA, change in load of approx. 90MW is observed in J&K(UT) control area. In antecedent condition, 220 KV Kishenganga(NH)-Wagoora(PG) (PG) Ckt-1 & Ckt-2 were carrying approx. 60MW each.	1) 220 KV Kishenganga(NH)-Wagoora(PG) (PG) Ckt-1 2) 220 KV Kishenganga(NH)-Wagoora(PG) (PG) Ckt-2
10	GD-1	HARYANA	24-Apr-2022 18:00	24-Apr-2022 19:28	1:28	0	270	0.000	0.529	43968	51043	220 KV Sohna Road (GPTL)-Badshahpur(HV) (HVPNL) Ckt-1 & Ckt-2 both tripped on R-Y phase to phase bus fault. Lines tripped on Z-4 distance protection operation at Badshahpur end as bus bar protection is not in service there. 220 KV Sohna Road (GPTL)-Badshahpur(HV) (HVPNL) Ckt-1 tripped from Sohna Road end on DT received from Badshahpur end but 220 KV Sohna Road (GPTL)-Badshahpur(HV) (HVPNL) Ckt-2 didn't trip from Sohna Road end. As per PMU, R-Y phase to phase fault with delayed clearance in 240ms is observed. As per SCADA, change in load of approx. 270MW is observed in Haryana control area. In antecedent condition, 220 KV Sohna Road (GPTL)-Badshahpur(HV) (HVPNL) Ckt-1 & 220 KV Sohna Road (GPTL)-Badshahpur(HV) (HVPNL) Ckt-2 were carrying approx. 134MW each.	1) 220 KV Sohna Road (GPTL)-Badshahpur(HV) (HVPNL) Ckt-1 2) 220 KV Sohna Road (GPTL)-Badshahpur(HV) (HVPNL) Ckt-1

Details of Grid Events during the Month of April 2022 in Northern Region

Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional 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)		
11	GI-2	HARYANA	25-Apr-2022 19:09	26-Apr-2022 08:02	12:53	0	0	0.000	0.000	46443	53820	400 KV Deepalpur(JHKT)-Kabulpur(HV) (HVPNL) Ckt-1 & Ckt-2 both tripped during burning of wheat waste parali by farmers in between mid span of tower no. 53-54. As per PMU & SOE, 400 KV Deepalpur(JHKT)-Kabulpur(HV) (HVPNL) Ckt-1 tripped on B-N phase to earth fault after unsuccessful A/R operation. Further after 22 secs, 400 KV Deepalpur(JHKT)-Kabulpur(HV) (HVPNL) Ckt-2 also tripped on B-N phase to earth fault after unsuccessful A/R operation. In antecedent condition, 400 KV Deepalpur(JHKT)-Kabulpur(HV) (HVPNL) Ckt-1 & Ckt-2 were carrying 44MW each.	1) 400 KV Deepalpur(JHKT)-Kabulpur(HV) (HVPNL) Ckt-1 2) 400 KV Deepalpur(JHKT)-Kabulpur(HV) (HVPNL) Ckt-2
12	GD-1	UTTAR PRADESH	25-Apr-2022 22:38	26-Apr-2022 05:24	6:46	500	180	1.139	0.355	43882	50741	There was a R-Y-B bus fault at 220kV Harduaganj on which all 220kV feeders emanating from Harduanganj tripped on Z-4 distance protection operation. As fault was still persisting, 400/220 kV 315 MVA ICT 1 at Harduaganj (UP) tripped on over current protection operation. With the tripping of ICT & all 220kV feeders, 220kV bus at Harduaganj became dead which resulted into tripping of 110 MW Harduaganj-C TPS - UNIT 7, 250 MW Harduaganj-D TPS - UNIT 8 & UNIT-9. As per PMU, R-Y-B three phase fault with delayed clearance in 1960ms is observed. As per SCADA, generation loss of approx. 500MW at Harduaganj TPS and change in load of approx. 180MW in UP control area is observed. In antecedent condition, 400/220 kV 315 MVA ICT 1 at Harduaganj (UP), 110 MW Harduaganj-C TPS - UNIT 7, 250 MW Harduaganj-D TPS - UNIT 8 & UNIT-9 were carrying 17MW, 62MW, 223MW & 223MW respectively.	1) 110 MW Harduaganj-C TPS - UNIT 7 2) 400/220 kV 315 MVA ICT 1 at Harduaganj (UP), 3) 250 MW Harduaganj-D TPS - UNIT 8 4) 250 MW Harduaganj-D TPS - UNIT 9
13	GD-1	RAJASTHAN	28-Apr-2022 12:51	28-Apr-2022 13:59	1:08	0	185	0.000	0.331	53306	55913	220 KV Bassi(PG)-Dausa(RS) (PG) Ckt-2 tripped on B-N phase to earth fault, fault distance was 43km and fault current was 3.28kA from Bassi end. At the same time, 220 KV Sawaimadhopur(RS)-Dausa(RS) (PG) Ckt-1 also tripped and 220 KV Bassi(PG)-Dausa(RS) (PG) Ckt-1 & 220 KV Lalsote(RS)-Dausa(RS) (PG) Ckt-1 both tripped from remote end only on Z-2 distance protection operation. As per PMU, B-N phase to earth fault with delayed clearance in 360ms is observed. As per SCADA, change in load of approx. 185MW is observed in Rajasthan control area. In antecedent condition, 220 KV Bassi(PG)-Dausa(RS) (PG) Ckt-1 & Ckt-2, 220 KV Sawaimadhopur(RS)-Dausa(RS) (PG) Ckt-1 and 220 KV Lalsote(RS)-Dausa(RS) (PG) Ckt-1 were carrying 99MW, 99MW, 2MW & 1MW respectively.	1) 220 KV Bassi(PG)-Dausa(RS) (PG) Ckt-1 2) 220 KV Sawaimadhopur(RS)-Dausa(RS) (PG) Ckt-1, 3) 220 KV Lalsote(RS)-Dausa(RS) (PG) Ckt-1 4) 220 KV Bassi(PG)-Dausa(RS) (PG) Ckt-2
14	GD-1	NEW DELHI	29-Apr-2022 14:43	29-Apr-2022 16:12	1:29	0	440	0.000	0.758	55386	58035	At 14:29 Hrs, 400 KV Dadri(NT)-Loni Harsh Vihar(DV) (NT) Ckt-1 tripped on B-N phase to earth fault. Further at 14:43 Hrs, 400 KV Dadri(NT)-Loni Harsh Vihar(DV) (NT) Ckt-2 tripped from Dadri end only on B-N phase to earth fault. At the same time, 400/220 kV 315 MVA ICT 3 at Loni Harsh Vihar(DV) tripped on over current protection operation from LV side and 220kV Patparganj-Preet Vihar Ckt-1 tripped on E/F protection operation. With the tripping of 00 KV Dadri(NT)-Loni Harsh Vihar(DV) (NT) Ckt-1 & Ckt-2 400/220kV Loni Harsh Vihar became dead. As per PMU, B-N phase to earth fault with no A/R operation is observed. As per SCADA, change in load of approx. 440MW is observed in Delhi control area. In antecedent condition, 400 KV Dadri(NT)-Loni Harsh Vihar(DV) (NT) Ckt-2 & 400/220 kV 315 MVA ICT 3 at Loni Harsh Vihar(DV) were carrying 441MW & 150MW respectively.	1) 400 KV Dadri(NT)-Loni Harsh Vihar(DV) (NT) Ckt-2 2) 400/220 kV 315 MVA ICT 3 at Loni Harsh Vihar(DV)
15	GD-1	PUNJAB	30-Apr-2022 11:16	30-Apr-2022 12:40	1:24	0	60	0.000	0.096	54149	62212	At 11:16 Hrs, 220 KV Dehar(BB)-Kangoo(HP) (HP) Ckt-1 tripped on R-N fault, Z-1 from Dehar end. At the same time, 220 KV Dehar-Ganguwal (BB) Ckt-2, 400/220 kV 315 MVA ICT 1 at Dehar(BB) and 220/132KV 40MVA ICT at Dehar also tripped. Again at 15:24 Hrs, bus bar protection of 220KV Bus 2 at Dehar(BB) operated which led to tripping of 220 KV Dehar-Ganguwal (BB) Ckt-2 and 400/220 kV 315 MVA ICT 1 at Dehar(BB). As per PMU, no fault observed at 11:16 Hrs & 15:24 Hrs. As per SCADA, change in load of approx. 60MW is observed in HP control area at 11:16 Hrs. In antecedent condition, 220 KV Dehar(BB)-Kangoo(HP) (HP) Ckt-1, 220 KV Dehar-Ganguwal (BB) Ckt-2 and 400/220 kV 315 MVA ICT 1 at Dehar(BB) were carrying 92MW, 52M & 97MW respectively.	1) 220 KV Dehar-Ganguwal (BB) Ckt-2 2) 400/220 kV 315 MVA ICT 1 at Dehar(BB) 3) 220 KV Dehar(BB)-Kangoo(HP) (HP) Ckt-1 4) 220KV Bus 2 at Dehar(BB) 5) 400/220 kV 315 MVA ICT 1 at Dehar(BB) 6) 220 KV Dehar-Ganguwal (BB) Ckt-2

Details of Grid Events during the Month of April 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)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional 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-1	WR	05-Apr-22 02:33	05-Apr-22 02:46	0:13	-	300	-	0.005	66311	59981	At 02:33 Hrs/05-04-2022, HV side R phase isolator of 220/132 kV Paraswani ICT 2 melted which resulted in tripping of the ICT on E/F protection operation. After the tripping of 220/132 kV Paraswani ICT2, 220/132 kV Paraswani ICTs 1&3 got overloaded and tripped. Due to the tripping of these ICTs, 132 kV loads (around 300 MW) connected to 220 kV Paraswani station got interrupted.	Tripping of 1.220/132 kV Paraswani ICTs 1,2&3
2	GD-1	WR	08-Apr-22 08:33	08-Apr-22 09:01	0:28	-	50	-	0.001	66465	61175	At 08:33:04 Hrs/08-04-2022, R phase CT of 220 kV Sujalpur 2 line failed at Rajgarh substation which resulted in tripping of the line on distance protection operation at both ends. After 3 seconds, the fire and fumes from blasted CT went to nearby system and resulted in tripping of all other 220 kV elements in the substation. With these tripping, 220/132 kV Rajgarh substation went dark and there was a load loss of 50 MW.	Tripping of 1.220 kV Rajgarh- Sujalpur 1&2 2.220 kV Rajgarh- Nalkheda 1&2 3.220/132 kV Rajgarh ICTs 1&2
3	GD-1	WR	08-Apr-22 13:10	08-Apr-22 15:27	2:17	255	-	0.004	-	66341	64445	At 13:10 Hrs/08-04-2022, 220 kV Bhuj- Ratadiya 1 tripped on B-E fault. Prior to the event, 220 kV Bhuj- Ratadiya 2 tripped on B-E fault at 13:04 Hrs. With these tripping, there was no evacuation path from Ratadiya(Adani) Wind power station and there was a generation loss of 255 MW.	Tripping of 1.220 kV Bhuj- Ratadiya 1&2
4	GI-2	WR	08-Apr-22 13:07	08-Apr-22 14:19	1:12	-	168	-	0.003	66526	64531	At 13:07 Hrs/08-04-2022, 400 kV Seoni- Kirnapur tripped on Y phase fault at Seoni substation. Y phase pole of CB did not trip at Kirnapur substation and resulted in LBB operation and caused tripping of 400/132 kV Kirnapur ICT 1 and Bus coupler. With these trippings, 400/132 kV Kirnapur ICT 2 got overloaded and 132 kV Incomer of ICT 2 tripped on over current protection operation. At the same time, 132 kV Kirnapur- Dongargarh tripped at Kirnapur end on Zone1 distance protection operation (Power swing). 132 kV Seoni- Seoni Interconnectors tripped on O/C protection operation. 132 kV Seoni- Nainpur tripped at Seoni end on O/C protection operation. 132 kV Balaghat, Baihar, Seoni, Benegaon, Lalbarra, Katangi & Waraseoni substations supply interrrupted due to the event.	Tripping of 1.400 kV Seoni- Kirnapur 2.400/220 kV Kirnapur ICTs 1&2
5	GI-1	WR	18-Apr-22 18:10	18-Apr-22 20:08	1:58	625	-	-	-	68274	61130	At 18:10 Hrs/18-04-2022, GTPS Unit 5 tripped on Rotor E/F protection operation followed by tripping of 220 kV GTPS Bus 1 and all the connected elements on LBB protection operation of GT-5. Units 3& 4 also tripped and generation loss of 625 MW was reported by SLDC Gujarat.	Tripping of 1. 220 kV GTPS Bus 1 2.220 kV GTPS- Vadavi 1 3.220 kV GTPS- Soja 1 4.220 kV GTPS- Jamla 1 5.220 kV GTPS- Mehsana 1&2 6.220 kV GTPS- Ranasan 1 7.210 MW GTPS Units 3,4&5
6	GD-1	WR	21-Apr-22 03:47	21-Apr-22 05:39	1:52	71	-	0.001	-	66373	58969	At 03:47 Hrs/21-04-2022, 220 kV Bhuj- Naranpar tripped on B-E fault which resulted in 71 MW generation loss at Naranpar (GIWEL) Wind Power station due to loss of evacuation path.	Tripping of 1.220 kV Bhuj- Naranpar
7	GD-1	WR	21-Apr-22 12:51	21-Apr-22 14:07	1:16	8	-	0.000	-	67878	64150	At 12:51 Hrs/21-04-2022, 220 kV Bhuj- Baranda tripped on B-E fault which resulted in 8 MW generation loss at Baranda (ASIPL) Wind Power station due to loss of evacuation path.	Tripping of 1.220 kV Bhuj- Baranda
8	GI-2	WR	21-Apr-22 21:41	22-Apr-22 00:54	3:13	-	-	-	-	66869	58736	At 21:41:21 Hrs/21-04-2022, B phase CT of 728 Bay failed which resulted in tripping 765 kV Dharamjaygarh Bus 3 and all the connected main bays on BB protection operation. At 21:41:27 Hrs, R phase CT of 730 Bay failed and caused tripping of 765 kV Dharamjaygarh Bus 4 and all the connected main bays on BB protection operation. After the tripping of the Bus 4 and all connected main bays, the fault was fed from the remote end and initiated 730 Bay LBB and tripping of 765 kV Dharamjaygarh- Jharsuguda 2 Tie bay. At 21:41:57 Hrs, B phase CT of 733 Bay failed which resulted in tripping of 765 kV Dharamjaygarh Bus 1 and all the connected main bays on BB protection operation. After the tripping of the Bus 1 and all connected Main bays, the fault was fed from the remote end and initiated 733 Bay LBB and tripping of 765 kV Dharamjaygarh- Jharsuguda 1 Tie bay. There was no load/generation loss due to the event.	Tripping of 1.765 kV Dharamjaygarh Buses 1,3&4 2.765 kV Dharamjaygarh- Jharsuguda 1&2 3.765 kV Dharamjaygarh- Ranchi 1&2 4.765/400 kV Dharamjaygarh ICT 1 5.765 kV Dharamjaygarh- Jabalpur 3
9	GD-1	WR	24-Apr-22 16:37	24-Apr-22 18:14	1:37	110	-	0.002	-	67551	61589	At 16:37 Hrs/24-04-2022, 220 kV Bhuj- Baranda tripped on B-E fault resulting in 110 MW generation loss at Baranda (ASIPL) Wind Power station due to loss of evacuation path.	Tripping of 1.220 kV Bhuj- Baranda
10	GD-1	WR	25-Apr-22 12:52	25-Apr-22 13:07	0:15	-	96	-	0.001	70475	64923	At 12:52 Hrs/25-04-2022, 220 kV Kothmikala- Anuppur 1&2 tripped on R-E fault. With the tripping of these lines, 220/132 kV Anuppur station became dark and 132 kV Baikunthpur and 132 kV Manendragarh interrupted due to the event.	Tripping of 1.220 kV Kothmikala- Anuppur 1&2

Details of Grid Events during the Month of April 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)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional 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)		
11	GD-1	WR	26-Apr-22 10:08	26-Apr-22 10:30	0:22	-	1694	-	0.027	67105	62080	At 10:08 Hrs/26-04-2022, flashover of support insulator of Auxillary Bus R phase isolator of 400 kV HVDC line 2 bay occured at 400 kV Padghe substation. This resulted in tripping of 400 kV Padghe Bus 2 and all the connected elements. After one second, 400 kV Padghe Bus 1also tripped on LBB protection operation of 400/220 kV Padghe ICT 5. With the tripping of 400 kV Padghe Buses 1&2, the load fed from Padghe 400 kV side (1694 MW through five ICTs) got shifted to nearby 220 kV sources and led to multiple LTS operation in MSETCL system. LTS of 400/220 kV Bableshwar ICTs operated and resulted in load relief of 500 MW. LTS operated at 400/220 kV Lonikhand-I due to Under Voltage and load relief of 272 MW obtained. LTS operated at 220 kV Boisar and resulted in 216 MW load relief. Due to the tripping of 400 kV Kalwa- Padghe 1&2, 400 kV Pune-Kharghar & 400 kV Pune- Kalwa increased to 860 MW & 955 MW respectively. Due to this overloading, LTS on these lines operated and load relief of 275 MW in Nerul, Sonkhar, Kharghar, Dharavi was obtained. To reduce loading in 400 kV Pune-Kharghar & 400 kV Pune-Kalwa & infeeds to Mumbai system, 489 MW non critical load in Mumbai & MMR area was shed. The total load in Mumbai, MMR, Nashik & Ahmednagar to a tune of around 3110 MW was affected and out of which 1263 MW was obtained through various LTS operations.	Tripping of 1.400 kV Padghe Buses 1&2 2.400 kV Padghe- Kalwa 1&2 3.400 kV Padghe- Bableshwar 1&2 4.400 kV Padghe- Nagothane 1&2 5.400 kV Padghe-TAPS (3&4) 1&2 6.400 kV Padghe- Boisar 7.400/220 kV Padghe ICTs 1,2,3,4&5 8.220 kV TAPS 1&2 -Borivali 9.500 kV HVDC Chandrpur- Padghe Poles 1&2
12	GD-1	WR	30-Apr-22 22:45	30-Apr-22 22:54	0:09	-	190	-	0.003	66684	60738	At 22:45 Hrs/30-04-2022, B phase CT of 220 kV Bina(PG) line blasted at Shivpuri S/s and resulted in tripping of all the elements connected to 220 kV Shivpuri main Bus on busbar protection operation. There was a load loss of 190 MW due to the event.	Tripping of 1.220 kV Shivpuri- Bina(PG) 2.220 kV Shivpuri- Bina(MP) 3.220 kV Shivpuri- Sabalgarh 1&2 4.220 kV Shivpuri- SEI Sunshine 1&2 5.220/132 kV Shivpuri ICTs 1,2&3

Details of Grid Events during the Month of April 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 generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid		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	01-Apr-22 17:03	01-Apr-22 23:49	6 hrs 46 mins	0	90	0.00%	0.17%	44047	53485	Complete Outage of 220kV/66kV Kushalanagar SS of KPTCL: As per the report submitted, the triggering incident was tripping of 220kV Mysore Kushalnagara Line-1&2 due to 220kV tower damage which was caused by heavy wind and rain. Since 220kV/66kV Kushalnagar SS was radially fed from 220kV Mysore SS, this resulted in complete outage of the substation	1. 220kV Mysore Kushalnagar-1&2
2	GD-1	Karnataka	10-Apr-22 12:42	10-Apr-22 13:01	19mins	260	0	0.57%	0.00%	45734	52814	Complete Outage of 220kV/33kV KSPDCL SS_3: As per the reports submitted, the triggering incident was hand tripping of 220kV Pavagada KSPDCL SS-3 line due to emergency. Tripping of the only connected line resulted in complete outage of 220kV/33kV KSPDCL SS_3.	1. 220kV Pavgada KSPDCL SS_3
3	GD-1	Tamil Nadu	11-Apr-22 15:35	11-Apr-22 16:54	1 hrs 19 mins	55	0	0.12%	0.00%	45695	54050	Complete Outage of 220kV/33kV Orange Sironj Wind Station: As per the reports submitted, the triggering incident was R-N fault in 220kV TTGS Orange Sironj line . At both ends, line differential protection operated. At TTGS end, A/R operated and line was holding. At Orange Sironj end, A/R did not operate and line tripped. Tripping of the only connected line resulted in complete outage of 220kV Orangesironj Wind Station.	1. 220kV TTGS Orangesironj-1
4	GD-1	Tamil Nadu	11-Apr-22 20:06	11-Apr-22 21:30	1 hrs 24 mins	6	0	0.01%	0.00%	40700	45833	Complete Outage of 220kV/33kV Orange Sironj Wind Station: As per the reports submitted, the triggering incident was Y-N fault in 220kV TTGS Orange Sironj line . At both ends, line differential protection operated. At TTGS end, A/R operated and line was holding. At Orange Sironj end, A/R did not operate and line tripped. Tripping of the only connected line resulted in complete outage of 220kV Orangesironj Wind Station.	1. 220kV TTGS Orangesironj-1
5	GD-1	Karnataka	16-Apr-22 01:43	16-Apr-22 02:19	36 mins	22	259	0.06%	0.56%	37327	46397	Complete Outage of 220kV/110kV Ranebennur SS, 220kV/66kV Davanagere SS, 220kV/66kV Honnali SS and 220kV/66kV Benkikere SS and Multiple trippings in 400kV/220kV Guttur SS of KPTCL: During the antecedent conditions, 220kV/110kV Ranebennur SS, 220kV/66kV Davanagere SS, 220kV/66kV Benkikere and 220kV Honnali SS were radially fed from 400kV/220kv Guttur SS. As per the reports submitted, the triggering incident was B phase isolator failure in 220kV Guttur Haveri Line-1 at Guttur end resulting in Bus-1 fault. BBP initiated but did not operate due to DC supply failure. All 220kV lines connected to 220kV Guttur Bus-1 and Bus-2 got tripped on operation of zone-4 protection. 400kV/220kV Guttur ICT-1 & 2 tripped on Back-up over current protection .This resulted in complete outage of 220kV/110kV Ranebennur SS, 220kV/66kV Davanagere SS, 220kV/66kV Honnali SS and 220kV/66kV Benkikere SS .	1.400kV/220kV Guttur ICT-1&2 2. 220kV Guttur Haveri Line-1&2 3. 220kV Guttur Honnali 4. 220kV Guttur Chitradurga 5. 220kv Guttur Davanagere-1,2&3
6	GD-1	Andhra Pradesh	20-Apr-22 15:47	20-Apr-22 17:04	1 hrs 17 mins	1301	0	2.96%	0.00%	44006	51374	Complete Outage of 400kV SEIL_P2 Generating station of Sembcorp and Multiple Trippings in 400kV Nellore Pooling Station of PGCIL SR-1: As per the reports submitted, the triggering incident was Y-N fault in 400kV Bus-2 at NPS end due to isolator switching operation . This resulted in the tripping of all the Main breakers of Bus-2 at 400kV NPS. At the same time, 400kV NPS SEIL_P2 line-1 and 2 got tripped at NPS end on OV St-2 protection and DT was sent to remote end. Due to loss of both the evacuating lines, running Units#1 and 2 at SEIL_P2 got tripped.	1. 400kV-SEIL_P2 - NPS-1&2 2. 400 kV GOOTY - NPS-1 3. 765/400 kV ICT-2 at NPS
7	GD-1	Karnataka	27-Apr-22 13:13	27-Apr-22 13:32	19mins	0	167	0.00%	0.31%	51916	54544	Complete Outage of 220kV/110kV MRS Shimoga SS of KPTCL and Partial Loss of Supply to 220kV/110kV Kibbanahalli(KB Cross) SS of KPTCL: During the antecedent conditions, due to 220kV split Bus operation at 220kV/110kV Kibbanahalli(KB Cross) SS, 220kV Bus-1 was radially fed from 220kV/110kV MRS Shimoga SS.As per the reports submitted, triggering incident was LBB maloperation in 220kV Shimoga Mysore line-1 at Shimoga end. Since there was 220kV Single bus operation, immediately all the lines connected to 220kV Bus got tripped. This resulted in complete outage of 220kV/110kV MRS Shimoga SS and partial loss of supply to 220kV/110kV Kibbanahalli(KB Cross) SS .	1. 220kV Shimoga Sharavathy Line-1,2&3
8	GD-1	Karnataka	29-Apr-22 19:14	29-Apr-22 20:30	1hr 16mins	0	30	0.00%	0.06%	42619	46435	Complete Outage of 220kV/33kV Gopalpura Station and 220kV/66kV Kaduvinakote(Hole Narsipura) SS of KPTCL: As per the report submitted, the triggering incident was tripping of 220kV Hassan Gopalpura Line due to Y-B fault. Subsequently, 220kV Mysore Gopalpura line tripped on over current protection . Tripping of both connected lines resulted in complete outage of 220kV/33kV Gopalpura SS. Since 220kV/66kV Kaduvinakote(Hole Narsipura) SS was radially fed from 220kV Gopalpura SS, this further resulted in the complete outage of 20kV/66kV Kaduvinakote(Hole Narsipura) SS.	1. 220kV Gopalpura Hassan 2. 220kV Gopaplpura Mysore
9	GD-1	Karnataka	29-Apr-22 11:51	29-Apr-22 12:36	45min	1657	70	3.23%	0.13%	51266	54543	Complete Outage of 400kV BPS SS, 400kV YTPS GS, 400kV/220kV Jagalur SS, 220kV/66kV Chitradurga SS, 220kV/66kV Kudligi SS and multiple tripping in 400kV/220kV JSWEL GS and 220kV/66kV Thalak SS: As per the information received, the triggering incident was YB fault in 400kV BPS Pavagada line-2 at a distance of 70km from BPS end at 11:47hrs and RB fault in 400kV BPS Pavagada line-1 at a distance of 98km from BPS end at 11:51hrs. Subsequently, 400kV BPS Jagalur line-1&2, 400kV BPS YTPS line-2, and 400kV BPS JSW line-1 got tripped on operation of OV St-1 protection at BPS end and DT was sent to the remote ends. Running units#1 and 2 got tripped at YTPS end due to loss of evacuation. Running units#3 and 5 at JSW end got tripped and there was opening of 400kV bus coupler at JSW end due to sps operation. Since 400kV/220kV Jagalur SS, 220kV/66kV Chitradurga SS, 220kV/66kV Kudligi SS, and part of 220kV/66kV Thalak SS loads were radially fed from 400kV BPS. This resulted in complete loss of outage of 400kV BPS SS, 400kV YTPS GS, 400kV/220kV Jagalur SS, 220kV/66kV Chitradurga SS, 220kV/66kV Kudligi SS. Details are awaited.	1. 220kV Pavagada BPS-1&2 2. 220kV BPS YTPS-1&2 3. 220kV BPS Jagalur-1&2 4. 220kV Jindal BPS-1&2 5. 400kV/220kV Jagalur ICT-1&2 6. YTPS U#1 and 2 7. JSW U#3 and 5
10	GI-1	Tamil Nadu	03-Apr-22 11:24	03-Apr-22 12:11	47 mins	0	0	0.00%	0.00%	47659	55192	Tripping of 230kV Bus-2 of 400kV/230kV/110kV Manali SS of TANTRANSCO: As per the reports submitted, the triggering incident was operation of 230kV Bus-2 BBP while normalising 220kV Manali Mylapur line. This resulted in deenergisation of 230kV Bus-2 of 400kV/230kV/110kV Manali SS.	1. 400kV/230kV Manali ICT-4 2. 230kV Manali Alamathy-2 3. 230kV Manali Basin Bridge 4. 230kV Manali ETPS 4. 230kV Manali Mylapur
11	GI-1	Telangana	04-Apr-22 02:06	04-Apr-22 02:26	20 mins	0	0	0.00%	0.00%	35287	44452	Tripping of 220kV Bus-1 of 220kV/132kV N'Sagar PH of TSGENCO: During antecedent conditions, N'sagar PH Unit-5 was connected to 220kV Bus-1. As per the reports submitted, triggering incident was suspected maloperation of Unit-5 LBB and all the elements connected to 220kV Bus-1 got tripped at 220kV/132kV N'Sagar PH.	1. 220kV Srisailam RB N'Sagar PH -1 2. 220kV N'sagar PH Tallapally-1 3. 220kV/132kV PTR-1 at N'Sagar PH 4. 220kV Bus coupler.
12	GI-2	Karnataka	06-Apr-22 16:58	06-Apr-22 17:58	1hr	0	0	0.00%	0.00%	41910	52159	Tripping of 400kV Bus-2 of 400kV/220kV BTPS of KPCL: As per the reports submitted, triggeirng incident was operation of 400kV Bus-2 BBP at 400kV/220kV BTPS while installing an LBB relay in 400kV Main CB of 400kV BTPS Hiriyur Line-1. This resulted in tripping of all elements connected to 400kV Bus-2 at 400kV/220kV BTPS.	1. 400kV/220kV BTPS-ICT - 2

Details of Grid Events during the Month of April 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 generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid		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)		
13	GI-1	Karnataka	14-Apr-22 17:11	14-Apr-22 20:29	15 hrs 18 mins	0	0	0.00%	0.00%	38939	43273	Tripping of 220kV Bus-1 of 400kV/220kV Kudgi_NTPC : As per the report submitted, the triggering incident was LBB maloperation in 220kV Kudgi_NTPC Nandihal line-3 which was under shutdown and connected to 220kV Bus-1 at Kudgi end. Immediately, Bus-1 BBP operated and all the elements connected to the 220kV Bus-1 got tripped at Kudgi_NTPC.	1.220kV Kudgi_NTPC Nandihal line-5 2. 400kV/220kV Kudgi ICT-2
14	GI-1	Kerala	26-Apr-22 09:42	26-Apr-22 10:11	29mins	97	0	0.20%	0.00%	48825	52053	220kV Bus Outage of 400kV/220kV Kozhikode SS of PGCIL SR-2: During antecedent conditions, all 220kV elements were connected to Bus-2 as Bus-1 was taken under shutdown at 400kV/220kV Kozhikode SS. Triggering incident was B-N fault in 220kV Bus-2 and immediately BBP operated resulting in the tripping of all the elements connected to Bus-2 at Kozhikode SS.	1. 400kV/220kV Kozhikode ICT-1,2&3 2. 220kV Kozhikode Areakode 1,2&3
15	GI-1	Tamil Nadu	30-Apr-22 09:28	30-Apr-22 10:41	1hr13min	261	0	0.51%	0.00%	50721	50872	Tripping of 110kV Bus at 400kV/230kV/110kV Kanarpathy SS of TANTRANSCO: As per the report submitted, the triggering incident was the failure of 400kV/110kV Kanarpathy ICT-3 LV side B-phase bypass isolator towards the Bus side. HV and LV side breakers of 400kV/110kV Kanarpathy ICT-3 got tripped on the operation of Differential protection. Since the fault was not in the BBP zone and the fault was persistent even after the tripping of ICT#3, LV side backup OC protection of ICT#3 operated, and this initiated LBB resulting in the tripping of all the elements connected to 110kV Bus at Kanarpathy.	1. 400kV/110kV Kanarpathy ICT-3, 4 and 5 2. 110kV connected feeders

Details of Grid Events during the Month of April 2022 in Eastern Region

Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional 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	Garhwa	05-Apr-22 12:19	05-Apr-22 14:01	01:42	0	40	0.00%	0.19%	26764	21167	At 12:19 Hrs, 220 kV Daltonganj-Garhwa D/c tripped due to B_N fault. Total power failure occurred at Garhwa S/s and radially fed downstream S/s. 40 MW load loss occurred at Garhwa.	220 kV Daltonganj-Garhwa D/c
2	GD-1	Hajipur, Amnour	05-Apr-22 18:03	05-Apr-22 18:24	00:21	0	260	0.00%	1.19%	28578	21772	At 18:03 Hrs, all emanating lines from Hazipur tripped during Y_ph LA failure of 220 kV Barauni-Hazipur-1 at Hazipur end. Total supply failure occurred at Hazipur, Amnour. 260 MW load loss occurred in Siwan, Chhapra, Amnour, Sheetalpur, Ekma, Raghunathpur, Hazipur.	220 kV Muzaffarpur (PG)-Hazipur D/c 220 kV Hazipur-Barauni-2
3	GD-1	Jorethang	08-Apr-22 10:15	08-Apr-22 10:18	00:03	48	0	0.18%	0.00%	27144	20342	At 10:15 Hrs, 220 kV Jorethang-New Melli D/c tripped from Jorehtang end only due to DC Earth fault in Trip coil. One running unit at Jorethang tripped and 48 MW load loss occurred.	220 kV Jorethang-New Melli D/c
4	GD-1	Bokaro A, Bokaro B, Jamshedpur	09-Apr-22 12:31	04-Sep-22 13:35	01:04	470	400	1.84%	1.91%	25480	20997	At 12:31 Hrs, during diversion of 220 kV Ramgarh-Bokaro-2 at Ramgarh, Bus fault at Ramgarh occurred. Total power failure occurred at 220 kV Bokaro & Ramgarh S/s due to delayed clearance of the fault. Consequently, entire load of Jamshedpur shifted to 220 kV Joda-JSPL-Jamshedpur which tripped on O/c. 400 kV Koderma-Bokaro-1 and U#1 at Bokaro A also tripped at the same time. 470 MW generation loss and 400 MW load loss occurred in Jamshedpur, Bokaro B, Kolaghat, Mosabani	400 kV Bokaro A-Koderma-1 400 kV Koderma-Biharsharif-2 500 MW U#1 at Bokaro A 220 kV Bokaro B-Ramgarh D/c 220 kV Bokaro B-CTPS B D/c 220 kV Bokaro B-Jamshedpur (DVC) D/c 220 kV Jamshedpur (DVC)-JSPL 220 kV Joda-JSPL 220 kV Joda-Ramchandrapur
5	GD-1	Dikchu	17-Apr-22 15:07	17-Apr-22 16:15	01:08	55	0	0.21%	0.00%	25625	23142	At 15:07 Hrs, 400 kV Rangpo-Dikchu tripped due to R_N fault. This led to total power failure at Dikchu as main bay of 400 kV Teesta 3-Dikchu was already under breakdown, which caused loss of evacuation path. One running unit at Dikchu also tripped. 55 MW generation loss occurred.	400 kV Rangpo-Dikchu
6	GD-1	Teesta-5	23-Apr-22 12:37	23-Apr-22 12:56	00:19	168	0	0.66%	0.00%	25534	21413	At 12:37 Hrs, 400 kV Teesta 5-Rangpo-1 tripped from Teesta 5 end only due to delayed clearance of fault in 400 kV Rangpo-Binaguri-1. This led to total power failure at Teesta 5 (400 kV Teesta 5-Rangpo 2 was under shutdown). One running unit at Teesta-5 tripped and 168 MW generation loss occurred.	400 kV Teesta 5-Rangpo-1
7	GD-1	Teesta-5	26-Apr-22 18:20	26-Apr-22 18:42	00:22	512	0	1.96%	0.00%	26120	21660	At 18:20 Hrs, 400 kV Teesta 5-Rangpo-1 trippedd ue to R_B_N fault. This led to total power failure at Teesta 5 (400 kV Teesta 5-Rangpo-2 was under shutdown). All three running units at Teesta-5 tripped and 512 MW generation loss occurred.	400 kV Teesta 5-Rangpo-1
8	GD-1	Teesta-5	26-Apr-22 18:59	4/26/2022 21:33:00 PM	03:34	350	0	1.29%	0.00%	27209	23095	At 18:59 Hrs, 400 kV Teesta 5-Rangpo-1 tripped again due to R_B_N fault. This led to total power failure at Teesta 5 (400 kV Teesta 5-Rangpo-2 was under shutdown). All three running units at Teesta-5 tripped and 350 MW generation loss occurred.	400 kV Teesta 5-Rangpo-1
9	GD-1	Jorethang	26-Apr-22 19:24	26-Apr-22 20:05	00:41	0	0	0.00%	0.00%	27486	22946	At 19:24 Hrs, 220 kV Jorethang-New Melli-2 tripped due to R_N fault. This led to total power failure at Jorehtang as 220 kV Jorethang-New Melli-1 already tripped at 19:11 Hrs. No generation loss occurred.	220 kV Jorethang-New Melli D/c

Details of Grid Events during the Month of April 2022 in North Eastern Region

Sl 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 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		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-I	Luangmual, Melriat & Lunglei areas of Mizoram Power System	03.04.22 15:37:00	03.04.22 16:29:00	0:52:00	0	39	0.00%	1.95%	2204	2005	Luangmual, Melriat & Lunglei areas of Mizoram Power System were connected with the rest of NER Grid through 132 kV Aizawl(PG)- Luangmual line. 132 kV Serchip-Lunglei line was under out of service to avoid overloading of 132 kV Aizawl-Lungmual line. At 15:37 hrs on 03.04.22, 132 kV Aizawl(PG) -Luangmual line tripped. Due to tripping of this element, Luangmual, Melriat & Lunglei areas of Mizoram 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 Luangmual, Melriat & Lunglei areas of Mizoram Power System by charging 132 kV Aizawl(PG) - Luangmual line at 16:29 hrs on 03.04.22.	132 kV Aizawl(PG) -Luangmual line
2	GD-I	Lumshnong area of Meghalaya Power System	03.04.22 20:21:00	03.04.22 21:21:00	1:00:00	0	14	0.00%	0.58%	2474	2421	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Panchgram -Lumshnong line. 132 kV Khleihriat-Lumshnong line tripped at 20:11 hrs on 03.04.22 At 20:21 hrs on 03.04.22, 132 kV Panchgram-Lumshnong line tripped. Due to tripping of this element, Lumshnong area of Meghalaya Power System was 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 21:21 hrs on 03.04.22.	132 kV Panchgram -Lumshnong line
3	GD-I	Karong area of Manipur Power System	04.04.22 13:52	04.04.22 15:03	1:11:00	0	11	0.00%	0.57%	2413	1919	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Kohima-Karong & 132 kV Imphal - Karong lines. At 13:52 hrs on 04.04.22, 132 kV Kohima-Karong & 132 kV Imphal - Karong lines tripped . Due to tripping of these elements, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this areas. Power supply was extended to Karong area of Manipur Power System by charging 132 kV Imphal - Karong line at 15:03 hrs on 04.04.22.	132 kV Kohima-Karong & 132 kV Imphal - Karong lines
4	GD-I	Karong area of Manipur Power System	05.04.22 14:07	05.04.22 14:38	0:31:00	0	10	0.00%	0.48%	2748	2099	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Kohima-Karong & 132 kV Imphal - Karong lines. At 14:07 hrs on 05.04.22, 132 kV Kohima-Karong & 132 kV Imphal - Karong lines tripped . Due to tripping of these elements, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area Power supply was extended to Karong area of Manipur Power System by charging 132 kV Imphal - Karong line at 14:38 hrs. on 05.04.22.	132 kV Kohima-Karong & 132 kV Imphal - Karong lines
5	GD-I	Chimpu area of Arunachal Pradesh Power System	09.04.22 23:54	10.04.22 01:13	1:19:00	0	12	0.00%	0.60%	2358	1991	Chimpu area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Biswanath Chariali - Chimpu 1 & 132 kV Biswanath Chariali - Chimpu 2 lines. 132 kV Ranganadi -Itanagar(Chimpu) Line , 132 kV Pare-Itanagar(Chimpu) Line & 132 kV Lekhi- Itanagar(Chimpu) Line were under planned shutdown at 07:00 hrs on 05.03.22. At 23:54 hrs on 09.04.22,132 kV Biswanath Chariali - Chimpu 1 & 132 kV Biswanath Chariali - Chimpu 2 lines tripped. Due to tripping of these elements, Chimpu area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Chimpu area of Arunachal Pradesh Power System by charging 132 kV Biswanath Chariali - Chimpu 1 Line at 01:13 hrs. on 10.04.22.	132 kV Biswanath Chariali - Chimpu 1 & 132 kV Biswanath Chariali - Chimpu 2 lines
6	GD-I	Karong area of Manipur Power System	10.04.22 15:59	10.04.22 16:03	0:04	0	13	0%	1%	2189	2033	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal - Karong line. 132 kV Kohima-Karong line was declared faulty. At 15:59 hrs on 10.04.22, 132 kV Imphal - Karong line tripped. Due to tripping of this element, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area Power supply was extended to Karong area of Manipur Power System by charging 132 kV Imphal - Karong line at 16:03 hrs on 10.04.22.	132 kV Imphal - Karong line
7	GD-I	Myndtu Leshka Generating Station of Meghalaya Power System	13.04.22 00:02	13.04.22 00:31	0:29	76	0	4%	0%	1900	1776	Myndtu Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Khleiriat(ME) - Leshka D/C lines. At 00:02 hrs on 13.04.22, 132 kV Khleiriat(ME) - Leshka D/C lines tripped . Due to tripping of these elements, Myndtu Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path in this area. Power supply was extended to Myndtu Leshka Generating Station of Meghalaya Power System by charging 132 kV Khleiriat(ME) - Leshka 1 line at 00:31 hrs on 13.04.22.	132 kV Khleiriat(ME) - Leshka D/C lines
8	GD-I	Myndtu Leshka Generating Station of Meghalaya Power System	13.04.22 07:25	13.04.22 08:24	0:59:00	90	0	4.56%	0.00%	1974	1827	Myndtu Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Khleiriat(ME) - Leshka D/C lines. At 07:25 hrs on 13.04.22, 132 kV Khleiriat(ME) - Leshka D/C lines tripped . Due to tripping of these elements, Myndtu Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path in this area. Power supply was extended to Myndtu Leshka Generating Station of Meghalaya Power System by charging 132 kV Khleiriat(ME) - Leshka 1 line at 08:24 hrs on 13.04.22.	132 kV Khleiriat(ME) - Leshka D/C lines

Details of Grid Events during the Month of April 2022 in North Eastern Region

Sl 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 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		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
9	GD-I	Myndtu Leshka Generating Station of Meghalaya Power System	14.04.22 17:43	14.04.22 18:17	0:34:00	84	0	3.62%	0.00%	2319	2231	Myndtu Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Khleiriat(ME) - Leshka D/C lines. At 17:43 hrs on 14.04.22, 132 kV Khleiriat(ME) - Leshka D/C lines tripped . Due to tripping of these elements, Myndtu Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path in this area. Power supply was extended to Myndtu Leshka Generating Station of Meghalaya Power System by charging 132 kV Khleiriat(ME) - Leshka 2 line at 18:17 hrs on 14.04.22.	132 kV Khleiriat(ME) - Leshka D/C lines
10	GD-I	Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Pwer System	14.04.22 21:59	14.04.22 22:27	0:28:00	6	18	0.24%	1.00%	2500	1806	Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through132 kV Balipara- Tenga line. At 21:59 hrs on 14.04.22, 132 kV Balipara- Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. At 22:27 hrs of 14.04.22, 132 kV Balipara - Tenga line was declared faulty by DoP, Arunachal Pradesh. Power supply was extended to Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 17:14 hrs on 17.04.22.	132 kV Balipara - Tenga line
11	GD-I	Umrangsho area of Assam Power System	14.04.22 22:41	14.04.22 23:09	0:28:00	0	11	0.00%	0.69%	2402	1588	Umrangsho area of Assam Power System was connected with the rest of NER Grid through 132 kV Haflong - Umrangsho line. 132 kV Khandong - Umrangsho line was under shutdown due to critical emergency at Khandong HEP on 26.03.22. At 22:41 hrs of 14.04.22, 132 kV Haflong - Umrangsho line tripped. Due to tripping of this element, Umrangsho area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Umrangsho area of Assam Power System by charging 132 kV Haflong - Umrangsho line at 23:09 hrs on 14.04.22.	132 kV Haflong - Umrangsho line
12	GD-I	Myndtu Leshka Generating Station of Meghalaya Power System	14.04.22 23:29	15.04.22 00:30	1:01:00	48	0	1.94%	0.00%	2479	1463	Myndtu Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Khleiriat(ME) - Leshka D/C lines. At 23:29 hrs on 14.04.22, 132 kV Khleiriat(ME) - Leshka D/C lines tripped . Due to tripping of these elements, Myndtu Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path in this area. Power supply was extended to Myndtu Leshka Generating Station of Meghalaya Power System by charging 132 kV Khleiriat(ME) - Leshka 1 line at 00:30 hrs. on 15.04.22.	132 kV Khleiriat(ME) - Leshka D/C lines
13	GD-I	Lumshnong area of Meghalaya Power System	15.04.22 06:59	15.04.22 07:22	0:23	0	22	0%	2%	2394	1388	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Panchgram -Lumshnong line. 132 kV Khleihriat-Lumshnong line was declared faulty at 22:11 hrs on 14.04.22. At 06:59 hrs on 15.04.22, 132 kV Panchgram -Lumshnong line tripped. Due to tripping of this element, Lumshnong area of Meghalaya Power System was 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 Panchgram -Lumshnong line at 07:22 hrs. on 15.04.22.	132 kV Panchgram -Lumshnong line
14	GD-I	Lumshnong area of Meghalaya Power System	15.04.22 19:28	15.04.22 19:37	0:09	0	16	0%	1%	2119	2091	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Panchgram -Lumshnong line. 132 kV Khleihriat-Lumshnong line was declared faulty at 22:11 hrs on 14.04.22. At 19:28 hrs on 15.04.22, 132 kV Panchgram -Lumshnong line tripped. Due to tripping of this element, Lumshnong area of Meghalaya Power System was 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 Panchgram -Lumshnong line at 19:37 hrs. on 15.04.22.	132 kV Panchgram -Lumshnong line
15	GD-I	Haflong & Umrangsho areas of Assam Power System	15.04.22 21:24	15.04.22 22:50	1:26	0	10	0%	1%	1975	1903	Haflong & Umrangsho areas of Assam Power System were connected with the rest of NER Grid through 132 kV Haflong - Jiribam line. 132 kV Khandong - Umrangsho line was under shutdown due to critical emergency at Khandong HEP on 26.03.22. At 21:24 hrs of 15.04.22, 132 kV Haflong - Jiribam line tripped. Due to tripping of this element, Haflong & Umrangsho areas of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas. At 22:50 hrs of 15.04.22, 132 kV Haflong - Jiribam line was declared faulty. Power supply was extended to Haflong & Umrangsho areas of Assam Power System by charging 132 kV Haflong - Jiribam line at 12:31 hrs on 16.04.22	132 kV Haflong - Jiribam line
16	GD-I	Lumshnong area of Meghalaya Power System	15.04.22 22:18	15.04.22 22:41	0:23	0	17	0%	1%	1746	1656	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Panchgram -Lumshnong line. 132 kV Khleihriat-Lumshnong line was declared faulty at 22:11 hrs on 14.04.22. At 22:18 hrs on 15.04.22, 132 kV Panchgram -Lumshnong line tripped. Due to tripping of this element, Lumshnong area of Meghalaya Power System was 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 Panchgram -Lumshnong line at 22:41 hrs. on 15.04.22.	132 kV Panchgram -Lumshnong line

Details of Grid Events during the Month of April 2022 in North Eastern Region

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						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
17	GD-I	Churachandpur area of Manipur Power system	15.04.22 23:46	15.04.22 23:59	0:13	0	12	0%	1%	2096	1613	Churachandpur area of Manipur Power System was connected with the rest of NER Grid through 132 kV Ningthoukhong-Churachandpur D/C and 132 kV Kakching - New Thoubal lines. At 23:46 hrs on 15.04.22, 132 kV Ningthoukhong-Churachandpur D/C and 132 kV New Thoubal - Kakching lines tripped. Due to tripping of these elements, Churachandpur area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power was extended to Churachandpur area of Manipur Power System by charging 132 kV Ningthoukong - Churachandpur 1 line at 23:59 hrs on 15.04.22.	132 kV Ningthoukhong-Churachandpur D/C and 132 kV New Thoubal - Kakching lines
18	GD-I	Kolasib area of Mizoram Power System	16.04.22 15:28	16.04.22 16:25	0:57	16	1	1%	0%	2023	1929	Kolasib area of Mizoram Power System was connected with rest of NER grid through 132 kV Kolasib-Aizawl line. 132 kV Badarpur-Kolasib line was under outage since 15:24 hrs on 16.04.22. At 15:28 hrs on 16.04.22, 132 kV Kolasib-Aizawl line tripped. Due to tripping of this element, Kolasib area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area. Power supply was extended to Kolasib area of Mizoram Power System by charging 132 kV Kolasib-Aizawl line at 16:25 hrs on 16.04.22.	132 kV Kolasib-Aizawl line
19	GD-I	Karong area of Manipur Power System	16.04.22 18:13	16.04.22 18:15	0:02	0	13	0%	1%	2575	2483	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal - Karong line. 132 kV Karong - Kohima line was under outage since 14:07 hrs on 05.04.22. At 18:13 hrs of 16.04.22, 132 kV Imphal - Karong line tripped. Due to tripping of this element, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Karong area of Manipur Power System by charging 132 kV Imphal - Karong line at 18:15 hrs on 16.04.22.	132 kV Imphal - Karong line
20	GD-I	Karong area of Manipur Power System	16.04.22 19:04	16.04.22 19:11	0:07	0	12	0%	0%	2627	2444	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal - Karong line. 132 kV Karong - Kohima line was under outage since 14:07 hrs on 05.04.22. At 19:04 hrs of 16.04.22, 132 kV Imphal - Karong line tripped. Due to tripping of this element, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Karong area of Manipur Power System by charging 132 kV Imphal - Karong line at 19:11 hrs on 16.04.22.	132 kV Imphal - Karong line
21	GD-I	Kohima area of Nagaland Power System	17.04.22 08:53	17.04.22 09:16	0:23	0	13	0%	1%	2009	1561	Kohima area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Kohima-Wokha line. 132 kV Dimapur - Kohima line was under outage since 08:04 hrs on 17.04.22 and 132 kV Karong-Kohima was under outage since 13:14 hrs on 06.04.22 At 08:53 hrs of 17.04.22, 132 kV Kohima-Wokha line tripped. Due to tripping of this element, Kohima area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Kohima area of Nagaland Power System by charging 132 kV Kohima-Wokha line at 09:16 hrs on 17.04.22.	132 kV Kohima-Wokha line
22	GD-I	Lumshnong area of Meghalaya Power System	18.04.22 00:04	18.04.22 00:45	0:41	0	33	0%	2%	1902	1376	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Khleiriat-Lumshnong line. 132 kV Lumshnong-Panchgram line was under outage since 23:24 hrs on 17.04.22 At 00:04 hrs on 18.04.22, 132 kV Khleihriat-Lumshnong line tripped. Due to tripping of this element, Lumshnong area of Meghalaya Power System was 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 132kV Lumshnong - Panchgram line at 00:45 hrs on 18.04.22.	132 kV Khleihriat-Lumshnong line
23	GD-I	Kohima area of Nagaland Power System and Karong area of Manipur Power System	18.04.22 01:08	18.04.22 01:35	0:27	0	13	0%	1%	1824	1187	Kohima area of Nagaland Power System and Karong area of Manipur Power System were connected with the rest of NER Grid through 132 kV Kohima-Wokha, 132 kV Karong- Kohima and 132 kV Imphal - Karong lines. 132 kV Dimapur - Kohima line was under outage since 08:04 hrs on 17.04.22. At 01:08 hrs of 18.04.22, 132 kV Kohima-Wokha, 132 kV Karong-Kohima and 132 kV Imphal - Karong lines tripped. Due to tripping of these elements, Kohima area of Nagaland Power System and Karong area of Manipur 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 Karong area of Manipur Power System by charging 132 kV Imphal - Karong line at 01:35 hrs on 18.04.22 and Kohima area of Nagaland Power System by charging 132 kV Karong - Kohima line at 01:50 hrs on 18.04.22.	132 kV Imphal - Karong, 132 kV Karong- Kohima, 132 kV Kohima-Wokha lines
24	GD-I	Monarchak area of Tripura Power System	20.04.22 07:20	20.04.22 08:14	0:54	85	5	4%	0%	2319	2231	Monarchak area of Tripura Power System was connected with rest of NER grid through 132 kV Monarchak - Udaipur line. 132kV Monarchak - Rokhia line was under outage since 07:13 hrs on 20.04.22, Monarchak STG was desynced at 07:13 hrs of 20.04.22 in SPS operation. At 07:20 hrs on 20.04.22, 132 kV Monarchak - Udaipur line tripped and Monarchak GTG tripped due to loss of evacuation path. Due to tripping of these elements , Monarchak area of Tripura Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area. Power supply was extended to Monarchak area of Tripura Power System by charging 132 kV Monarchak - Rokhia line at 08:14 hrs on 20.04.22	132 kV Monarchak - Udaipur line, Monarchak GTG
25	GD-I	Myndtu Leshka Generating Station of Meghalaya Power System	27.04.22 01:09	27.04.22 01:50	0:41	12	0	1%	0%	1907	1885	Mynddu Leshka Generating Station of Meghalaya Power System was connected with rest of NER grid through 132 kV Khleiriat(ME) - Leshka 1 line. 132 kV Khleiriat(ME) - Leshka 2 line was under outage condition since 00:57 hrs on 27.04.44. At 01:09 hrs on 27.04.22, 132 kV Khleiriat(ME) - Leshka 1 line tripped. Due to tripping of this element, Myndtu Leshka 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 Mynddu Leshka Generating Station of Meghalaya Power System by charging 132 kV Khleiriat(ME) - Leshka 1 line at 01:50 hrs on 27.04.22.	132 kV Khleiriat(ME) - Leshka 1 line

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						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
26	GD-I	Kolasib and Bairabi areas of Mizoram Power System	27.04.22 16:50	27.04.22 17:19	0:29	17	9	1%	0%	2146	2178	Kolasib and Bairabi areas of Mizoram Power System were connected with rest of NER grid through 132 kV Badarpur-Kolasib and 132 kV Kolasib-Aizawl lines. At 16:50 hrs on 27.04.22, 132 kV Badarpur-Kolasib and 132 kV Kolasib-Aizawl lines tripped. Due to tripping of these elements, Kolasib and Bairabi areas of Mizoram Power System were separated from rest of NER Grid and subsequently collapsed due to load-generation mismatch in these areas. Power supply was extended to Kolasib and Bairabi areas of Mizoram Power System by charging 132 kV Kolasib-Aizawl line at 17:19 hrs on 27.04.22.	132 kV Badarpur-Kolasib and 132 kV Kolasib-Aizawl lines
27	GD-I	Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System	29.04.22 12:31	29.04.22 12:54	0:23	4	15	0%	1%	2091	2236	Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through132 kV Balipara- Tenga line. At 12:31 hrs on 29.04.22, 132 kV Balipara- Tenga line tripped. Due to tripping of this element, Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area. Power supply was extended to Tenga, Khupi areas & Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 12:54 hrs of 29.04.22.	132 kV Balipara - Tenga line
28	GD-I	Dhaligaon area of Assam Power System	29.04.22 16:31	29.04.22 17:15	0:44	0	60	0%	3%	2309	2328	Dhaligaon area of Assam Power System was connected with the rest of NER Grid through 132 kV Bongaigaon - Dhaligaon D/C lines. At 16:31 hrs on 29.04.22, 132 kV Bongaigaon - Dhaligaon D/C lines tripped. Due to tripping of these elements, Dhaligaon area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area. Power supply was extended to Dhaligaon area of Assam Power System by charging 132 kV Bongaigaon - Dhaligaon D/C lines at 17:15 hrs on 29.04.22.	132 kV Bongaigaon - Dhaligaon D/C lines
29	GD-I	Myndtu Leshka Generating Station of Meghalaya Power System	29.04.22 23:58	30.04.22 01:37	1:39	12	0	1%	0%	2147	1777	Myndtu Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Khleiriat(ME) - Leshka D/C lines. At 23:58 hrs on 29.04.22, 132 kV Khleiriat(ME) - Leshka D/C lines tripped . Due to tripping of these elements, Myndtu Leshka Generating Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path in this area. Power supply was extended to Myndtu Leshka Generating Station of Meghalaya Power System by charging 132 kV Khleiriat(ME) - Leshka D/C lines at 01:37 hrs. on 30.04.22.	132 kV Khleiriat(ME) - Leshka D/C lines
30	GD-I	Lumshnong area of Meghalaya Power System	30.04.22 00:25	30.04.22 01:24	0:59	0	14	0%	1%	1881	1578	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Khleiriat-Lumshnong and 132 kV Lumshnong-Panchgram lines. At 00:25 hrs on 30.04.22, 132 kV Khleiriat-Lumshnong and 132 kV Lumshnong-Panchgram lines tripped. Due to tripping of these elements, Lumshnong area of Meghalaya Power System was 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 Khleiriat-Lumshnong line at 01:24 hrs on 30.04.22.	132 kV Khleiriat-Lumshnong and 132 kV Lumshnong-Panchgram lines