| | And Category of Grid Ang. of Category of Grid Event Time and Date of occurrence of Securities Image: Date of Securities (Difference of Category Of Grid Event) Antecedent Generation/Loss of Indu w.r.l. Brief details of the event (pre fault and post fault system conditions) Etements Tripped | | | | | | | | | | | | | |
|--------|---|---------------------|-----------------------------|-------------------|----------|------------------------|---|--|--|--------------------------------|--|---|--|--|
| el N- | Category of Grid Event | | Time and Date of occurrence | Time and Date of | Duration | Loss of gene during | ration / loss of load the Grid Event | % Loss of generation Antecedent Genera Regional Grid durin | n / loss of load w.r.t ation/Load in the ng the Grid Event | Antecedent Generat Regional | ion/Load in the Grid* | | Planate Things I | |
| 51 140 | (GI 1or 2/ GD-1 to GD-5) | Affected Area | of Grid Event | Restoration | (HH:MM) | Generation Loss(MW) | Load Loss (MW) | % Generation Loss(MW) | % Load Loss (MW) | Antecedent Generation (MW) | Antecedent Load (MW) | issues on the event (pre tanti and post tank system conditions) | ziemenis i rippeu | |
| 1 | GI-2 | NEW DELHI | 01-Apr-2021 12:20 | 01-Apr-2021 16:57 | 4:37 | 0 | 0 | 0.000 | 0.000 | 29710 | 34960 | As reported, 400 KV Bamnoll(OV)-Tughlakabad(PG) (DTL) Ckt-1 and Ckt-2 both successfully auto-reclosed on B-N & R-N phase to earth fault respectively and later both line tripped after 3sec on same faults. As per PMU, B-N phase to earth fault observed on 400 KV Bamnoll(OV)-Tughlakabad(PG) (DTL) Ckt-1 and R-N phase to earth fault observed on 400 KV Bamnoll(OV)-Tughlakabad(PG) (DTL) Ckt-1 in ntceedent condition, 400 kVV Bamnoll(OV)-Tughlakabad(PG) (DTL) Ckt-1 and Ckt-2 carrying approx. 20MW each. | 1) 400 KV Bannoll(DV)-Tughlakabad(PG) (DTL) Ckt-1 2) 400 KV Bannoll(DV)-Tughlakabad(PG) (DTL) Ckt-2 | |
| 2 | GI-2 | RAJASTHAN | 02-Apr-2021 14:17 | 02-Apr-2021 16:21 | 2:04 | o | 0 | 0.000 | 0.000 | 33352 | 34615 | As reported, 400 KV Jaisalmer-Barmer (RS) Ckt:1 tripped on B-N phase to earth fault. Fault distance was 14.53km and fault current was 7.269kA from Barmer end. At the same time, 400 KV Barmer(RS)-Faiyeest(RW) (RS) Ckt-1 also tripped. As per PMU, B-N phase to earth fault with delayed dearance of 440ms is observed. In antecedent condition, 400 KV Jaisalmer-Barmer (RS) Ckt-1 & 400 KV Barmer(RS)-Rajwest(RW) (RS) Ckt-1 carrying 147MW & 216MW respectively. | 1) 400 KV Barmer(R5)-Rajwest(RW) (R5) Ckt-1 2) 400 KV Jaisalmer-Barmer (R5) Ckt-1 | |
| 3 | GD-1 | HIMACHAL PRADESH | 06-Apr-2021 23:35 | 07-Apr-2021 06:49 | 7:14 | 120 | 0 | 0.368 | 0.000 | 32606 | As reported, 220 KV Bairssiul(NH)-Jessore(HP) (PG) Ckt-1 & 220 KV Bairssiul(NH)-Pong(BB) (PG) Ckt-1 tripped on Over Voltage: As per PMII, B-N followed by multiple phase to each fualts in 8 phase is observed. As per SCADA, Bus-1 & B 40405 2. Voltage: As per PMII, B-N followed by multiple phase to each fualts in 8 phase is observed. As per SCADA, Bus-1 & B and tecedent condition. 220 KV Bairssiul(NH)-bessore(HP) (PG) Ckt-1 & 2.20 KV Bairssiul(NH)-Pong(BB) (PG) Ckt-1, 60M Unit-1 & Unit-2 of Bairssiul(NH) carrying 73MW, 46MW, 61MW Respectively. | | 1) 220 KV Bairaskul(NH-)-Jessore(HP) (PG) Ckt-1 2) 220 KV Bairaskul(NH-)-Pong(BB) (PG) Ckt-1 | |
| 4 | GD-1 | UTTAR PRADESH | 10-Apr-2021 04:53 | 10-Apr-2021 06:18 | 1:25 | 380 | O | 1.152 | O.000 Source and the same time, 22 KV Kanpur(PG)-Unchahar III TPS - UNIT 1& UNIT 2 both tripped while synchronizing Unit 5. At the same time, 22 KV Kanpur(PG)-Unchahar(NT) (PG) (Ck+1, Ck+2, Ck+3 & Ck+4 all tripped from Unchahar(NT) end only on Bus Bar protection of Bus 3 operated. As per FMUL 3 phase fault is observed. As per SADA, generation loss of approx. 3BOMW is observed at Unchahar(NT). In anteceder condition, 210 MW Unchahar ITS - UNIT 1& UNIT 2 contributions 20 MW Unchahar ITS - UNIT 1& UNIT 2 contributions | | 1) 220 KV Kanpur(PG)-Unchahar(NT) (PG) Ckt-1 2) 220 KV Kanpur(PG)-Unchahar(NT) (PG) Ckt-3 3) 220 KV Kanpur(PG)-Unchahar(NT) (PG) Ckt-2 4) 220 KV Kanpur(PG)-Unchahar(NT) (PG) Ckt-4 5) 20 MW Unchahar (TPS-UNIT 1 6) 210 MW Unchahar (TPS-UNIT 2 | | | |
| 5 | GD-1 | UTTAR PRADESH | 13-Apr-2021 16:48 | 13-Apr-2021 20:34 | 3:46 | 280 | 0 | 0.815 | 0.000 | 34336 | 38880 | As reported, 400 KV Badaune-Rosa(UPC) (UP) (Ck1-1 tripped in carrier added 2-2 tripping from Rosa end on B-N phase to earth fault. At the same time, 400KV Bus bar main-2 at Rosa TPS relay mailunctioned and generated false bus bar (both bus-1 & bus-2) tripping to all the connected feeders whereas Bus main-1 relay did not sense any fault. As per RMU, B-N phase to earth Baut with unsuccessful autoreclaring is observed. As per SCADA, generation los of Bopx. 280MV at Rosa TPS is observed. In antecedent condition, 400/220 kV 200 MVA ICT 1 & ICT 2 carrying approx. 10MW each and 300 MW Rosa TPS - UNIT 3 & UNIT 4 carrying 147MW & 140MW respectively. | 1400KV Bus 1 at Rosa(UPC) 21400/220 kV 200 MVA ICT 2 at Rosa(UPC) 31400/220 kV 200 MVA ICT 2 at Rosa(UPC) 43400KV Shajhahang/IPG)Rosa(UPC) (UP) Ckt-1 4400KV Bus 2 at Rosa(UPC) 5400/220 kV 200 MVA ICT 2 at Rosa(UPC) 5400 KV Bashane Rosa(UPC) (UP) Ckt-2 7040 KV Bashane Rosa(UPC) (UP) Ckt-2 8400 KV Bashane Rosa(UP) (UP) (UP) (UP) (UP) (UP) (UP) (UP) | |
| 6 | GI-2 | UTTAR PRADESH | 15-Apr-2021 22:48 | 16-Apr-2021 00:50 | 2:02 | 0 | 0 | 0.000 | 0.000 | 38532 | 48818 | As reported, 400 KV Azamgarh-Mau (UP) Ckt-1 tripped on Y-N phase to earth fault. Fault occurred due to damage of Y phase Lo 400 KV Azamgarh-Mau (UP) Ckt-1 autil distance was 0.2 km from Azamgarh end and 42.14km from Mau end. At the same time 400 KV Tanda/KT)-Azamgarh(UP) (UP) Ckt-1: also tripped. As per PMU, Y-H phase to earth fault with unsuccessful autoreclosing observed. In antecedent condition, 400 KV Azamgarh-Mau (UP) Ckt-1 and 400 KV Tanda/KT)-Azamgah(UP) (UP) Ckt-1 carrying 313MW & 71MW respectively. | 1) 400 KV Azamgarh-Mau (UP) Ckt-1 2) 400 KV Tanda(NT)-Azamgarh(UP) (UP) Ckt-1 | |
| 7 | GD-1 | HARYANA | 16-Apr-2021 15:11 | 16-Apr-2021 18:13 | 3:02 | 390 | 360 | 1.238 | 0.968 | 31497 | 37171 | As reported, 400 KV CLP ihajjar(CLP)-Dhanoda(HV) (HVPNL) Ck1-1 tripped on DT received from Dhanoda(HV) end followed by tripping of 660 MW ihajjar(CLP)- UNIT 1. At the same time, 400 KV Deepalput(HKT)-Kabubur(HV) (HVPNL) Ck1-1 alto tripped. A spe FMUL B4 Hyste to earth full its bosened. As ger SCAD, load loss of approx. 360MW and eneration loss of approx. 390MW is observed. In antecedent condition, 400 KV CLP ihajjar(CLP)-Dhanoda(HV) (HVPNL) Ck1-1 and 400 KV Deepalput(HKT)-Kabubur(HV) (HVPNL) Ck1-1 carrying 314MW & 156MW respectively. | 1) 400 KV CLP Jhaljar(CLP)-Dhanoda(HV) (HVPNL) CK-1 2) 660 MW Jhaljar(CLP) - UNIT 1 3) 400 KV Deepalpur(JHKT)-Kabulpur(HV) (HVPNL) Ck-1 | |
| 8 | GI-2 | UTTAR PRADESH | 16-Apr-2021 16:43 | 16-Apr-2021 18:16 | 1:33 | o | o | 0.000 | 0.000 | 29854 | 35448 | As reported, 400 KV Alaknanda GVK(UPC)-Vishnuprayag[JP] (UP] Ck:1.8.400 KV Muzaffamagar(UP)-Vishnuprayag[JP] (UP) Ck:1 both tripped on Bus Bar protection operated at Vishnuprayag end due to B-N phase to earth fault. Lines tripped from remote end on DT received. As per PMU, B-N phase to earth fault is observed. | 1) 400 KV Muzaffarnagar(UP)-Vishnuprayag(JP) (UP) Ckt-1 2) 400 KV Alaknanda GVK(UPC)-Vishnuprayag(JP) (UP) Ckt-1 | |
| 9 | GI-2 | UTTRAKHAND | 17-Apr-2021 15:33 | 17-Apr-2021 17:26 | 1:53 | 0 | 0 | 0.000 | 0.000 | 33579 | 36637 | As reported, 220 KV Singoli Bhatwari(Singoli LTUHP))-Srinagar(UK) (PTCUL) Ckt-1 & Ckt-2 both tripped on B-R line to line fault. At the same time, 400/220 kV 315 MVA iCT 1 at Srinagar(UK) also tripped on three phase fault. As per PMU, B-R line to line fault is observed. | 1) 400/220 kV 315 MVA KCT 1 at Srinagar(UK) 2) 220 KV Singoli Bhatwar(Singoli(L'UHP))-Srinagar(UK) (PTCUL) Ckt-2 3) 220 KV Singoli Bhatwar(Singoli(L'UHP))-Srinagar(UK) (PTCUL) Ckt-1 | |
| 10 | GD-1 | UTTRAKHAND | 20-Apr-2021 14:30 | 20-Apr-2021 15:17 | 0:47 | o | 150 | 0.000 | 0.400 | 33985 | 37527 | As reported, 220 KV Khodri(UK)-Majri(HP) (UK) Cht-1 & Cht-2 both tripped from Khodri end on Bus Bar protection operated at Khodri end (Bus 2) due to thunderstorm during inclement weather. As per PMU, no fault is observed. As per SCADA, load loss daprox. ISOMV is observed. In antecedent condition, 220 KV Khodri(UK)-Majri(HP) (UK) Ckt-1 & Ckt- 2 carrying 77MW & 73MW respectively. | 1) 220 KV Khodri(UK)-Majiri(HP) (UK) Ckt-1 2) 220 KV Khodri(UK)-Majiri(HP) (UK) Ckt-2 | |
| 11 | GI-2 | UTTAR PRADESH | 21-Apr-2021 16:46 | 21-Apr-2021 18:26 | 1:40 | 0 | o | 0.000 | 0.000 | 33617 | 36554 | As reported, 400ktV Barellly(UP)-Barelly(UP) (PC) CK-1 & Ck-2 both tripped on Y-8 line to line fault. Fault current was 26kA at Barelly(PC) end. As per PMU, Y-8 line to line fault with delayed clearance of 380ms is observed. In antecedent condition, 400 kV Barelly(UP)-Barelly(PG) (PC) Ck-1 & Ck-2 carrying aprox. 50MW each. | 1) 400 KV Barelily(UP)-Barelily(PG) (PG) Ckt-1 2) 400 KV Barelily(UP)-Barelily(PG) (PG) Ckt-2 | |
| 12 | GI-2 | UTTAR PRADESH | 22-Apr-2021 02:52 | 22-Apr-2021 05:54 | 3:02 | 0 | o | 0.000 | 0.000 | 28564 | 36435 | As reported, 400 KV Gonakhpur/[UP] (PG) CKr.1 tripped on Y-8 fault, Fault Current was Ib 5.874A & ic 5.804KA, Distance was 1.224km from Gonakhpur/(UP) At the same time, 220 KV Gonakhpur/(PG)-Gonakhpur. 2(IP) (UP) Ckr.1, 400/220 kV 315 MVA iCT 2 & ICT 3 at Gonakhpur/(UP) all tripped on Bus Bar protection (Bus 1). As per PMU, Y-B phase to phase fault is observed. In antecedent condition, 400 KV Gonakhpur/(PG)-Gonakhpur/(UP) (PG) 315 MVA ICT 2 & ICT 3 at Gonakhpur/(UP) carrying 52MVV, 110MV & 80MW respectively. | 1) 400 KV Gorakhpur(PG)-Gorakhpur(UP) (PG) Ckt-1 2) 220 KV Gorakhpur(PG)-Gorakhpur_2(UP) (UP) Ckt-1 3) 400/220 kV 240 MVA KCT 3 at Gorakhpur(UP) 4) 400/220 kV 315 MVA ICT 2 at Gorakhpur(UP) | |
| 13 | Gi-1 | HIMACHAL PRADESH | 22-Apr-2021 23:02 | 22-Apr-2021 23:59 | 0:57 | 0 | 0 | 0.000 | 0.000 | 36280 | 44808 | As reported, 220 KV AD hydro(AD)-Hallagarh(PG) (ADHPL) CK-1 tripped on B-N phase to earth fault. Fault distance was 76.2km from AD Hydro exit & 72.2km from Hallagarh end. At the same time, 220 KV AD Hydro(AD-PhocalHPI (ADHPL) CK-1: allo tripped use to under voltage. Curved because 220 KV AD Hydro(AD-PhocalHPI (ADHPL)) 11 was already under forced outage. As per PMU, B-N phase to earth fault is observed. In antecedent condition, 220 KV AD hydro(AD)-Hallagarh(PG) (ADHPL) CK-1 & 220 KV AD hydro(AD-PhocalHPI (ADHPL) CK-1 carrying approx. 15MW each. | 1) 220 KV AD hydro(AD)-Phozal(HP) (ADHPL) CK-1 2) 220 KV AD hydro(AD)-Nailagarh(PG) (ADHPL) CK-1 | |

| | Statement of Cell Image: A second s | | | | | | | | | | | | | | |
|--------|--|---------------------|-----------------------------|-------------------|----------|---------------------------|--|--|--|----------------------------------|--------------------------|---|---|--|--|
| SI No. | Category of Grid Event | Affected Area | Time and Date of occurrence | Time and Date of | Duration | Loss of gener during t | ration / loss of load he Grid Event | % Loss of generation Antecedent Generat Regional Grid durin; | / loss of load w.r.t tion/Load in the g the Grid Event | Antecedent Generat Regional G | 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) | | | | |
| 14 | GI-2 | UTTAR PRADESH | 26-Apr-2021 14:17 | 26-Apr-2021 15:35 | 1:18 | 0 | 0 | 0.000 | 0.000 | 33968 | 39231 | As reported, 400 KV Noids Sec 148-Holda Sec 123 (UP) Cit-1 & Cit-2, 400 KV Gr.Noida, 2(UPC)-Holda Sec 148 (UP) Cit-1 & Cit-2, and 420/220 VI 500 MVA ICT 1 at Noida Sec 148(UP) all triped on Bus bar protection operation as Noida Sec 148(UP). There was problem in both OC source 1 & 2. During the rettification of OC earth fault, both OC assocce were switched off simulaneously by missible which resulted into UBs Bar trip command to both bus and ADV elements got tripped. OC earth fault found in RTCC panel of 500 MVA 17. As per PMU, no fault is observed. As per SCHAD, no load loss was observed as load was fell from 220K bus Cit-Bar Green and 220K vis-cit-8 RC green and 220K Vis-cit-8 RC green not 220K Vis-cit-8 RC green not 220K Vis-store 148 - 129 line. In antecedent condition, 400/220 KV 500 MVA ICT 1 at Noida Sec 148(UP) carrying 207MVW. | 1) 400 KV Noida Sec 148-Noida Sec 123 (UP) Ckt-1 2) 400KV Bio 2 at Noida Sec 148(UP) 3) 400KV Bios 1 at Noida Sec 148(UP) 4) 400 KV Noida Sec 148-Noida Sec 223 (UP) Ckt-2 5) 400 KV Gr Noida 2(UPC)-Noida Sec 148 (UP) Ckt-2 0) 400 KV Gr Noida 2(UPC)-Noida Sec 148 (UP) Ckt-2 7) 400 KV Gr Noida 2(UPC)-Noida Sec 148 (UP) Ckt-1 7) 400/220 KV 500 MVA (CT 1 at Noida Sec 148(UP) | | |
| 15 | GI-2 | RAJASTHAN | 28-Apr-2021 18:32 | 28-Apr-2021 21:56 | 3:24 | 0 | 0 | 0.000 | 0.000 | 36395 | 44551 | Ar reported, 400 KV Kankani-Jaisaimer (RS) Ckt-2 trigped on Y-N phase to earth fault, fault distance: 107.5km from Kankani end and 38 Skm from Jaisaime end. At the same time, 400 KV Aiai-Jaisaimer (RS) Ckt-1 and 400 KV Jaisaimer- Barmer (RS) Ckt-2 both tripped in 2.2 from remote end only. As per PMU, Y-N phase to earth fault with delayed clearance of 680ms is observed. As per SOE, line didn't trip from Jaisaimer end and tater fault cleared in 2.2 tripping of 400 KV Akai-Jaisaimer (IS) Ckt-1 and 400 KV Jaisaimer-Barmer (IS) Ckt-2 from remote end only. In antecedent condition, 400 KV Akai-Jaisaimer (IS) Ckt-1 and 400 KV Jaisaimer (IS) Ckt-1 and 400 KV Jaisaimer-Barmer (IS) Ckt-2 carrying S3MW, 46MW and 19MW respectively. | 1) 400 KV Jaisalmer-Barmer (RS) Ckt-2 2) 400 KV Akal-Jaisalmer (RS) Ckt-1 3) 400 KV Kankani-Jaisalmer (RS) Ckt-2 | | |
| 16 | GD-1 | UTTAR PRADESH | 28-Apr-2021 22:30 | 29-Apr-2021 00:03 | 1:33 | 75 | 45 | 0.187 | 0.089 | 40042 | 50418 | As reported, 400 KV Alaknanda GVK(UPC)-Muzaffarnagar (UP) Ckt-1, 400 KV Muzaffarnagar-Ataur (UP) Ckt-1, 400 KV Roorkeel/FG/HAuzaffarnagar(UP) (PG) Ckt-1, 400 KV Meerut/FG)-Muzaffarnagar(UP) (PG) Ckt-1, 00 KV Alaknanda GVK(UPC/Vshhupeyag)(P) (UP) Ckt-1, 400/220 V 315 MVA (C1), (C7 2, IC 3 & IC 4 at Muzaffarnagar(UP) al tripped on Bus bar protection operation due to try Ph C f of 400X bis coupler got damagade. As per FVNL +1 A phase to earth fault is observed: As per SGLADA, baad loss of approx. SSNW in Uttra/Hand region and generation loss of approx. 75MW of Alaknanda HF to bekerved. In algo bekerved in an earth of the start of the st | 1) 400/220 kV 315 MVA (CT 3 at Muziffamagar(UP) 2) 400/220 kV 315 MVA (CT 2 at Muziffamagar(UP) 3) 00/220 kV 315 MVA (CT 1 at Muziffamagar(UP) 4) 400/220 kV 315 MVA (CT 1 at Muziffamagar(UP) 6) 00/KV Alkinnik GVK(UPC-/Muziffamagar(UP) 6) 00/KV Alkinnik GVK(UPC-/Muziffamagar(UP) 10/00 KV Muziffamagar(Aur (UP) (CT) 3) 00/KV Moncher(PG)-Muziffamagar(UP) (PG) (Ct-1 8) 400 KV Moncher(PG)-Muziffamagar(UP) (PG) (Ct-1 9) 00/KV Mentiffamagar(Aur (UP) (CT) (PG) (Ct-1 9) 00/KV Mentiffamagar(Aur (UP) (PG) (Ct-1) | | |
| 17 | GD-1 | HIMACHAL PRADESH | 29-Apr-2021 02:15 | 29-Apr-2021 05:46 | 3:31 | 60 | 0 | 0.167 | 0.000 | 35895 | 46596 | Ac reported, 400 KV Nathpa Ihakri(SI)-Karcham Wangtoo(JSW) (HBPCL) CK-1, 400kV Nathpha Ihakri-Gumma CK-1, 400 KV Nathpa Ihakri(SI)-Rampur HEP(SI) (PG) CK-1 and 250MW Unit1 at Nathpa Ihakri(SI) all tripped on bus bar protection operation of bus 1 B bus 3. Bus bar operated backause Bus Bar-1 compariment of N. Ihakri Karcham Wangtoo-2 had some issue with the eldectric strength of SF-G gas. Ap ep rUM. RA Phase to east hault is observed. Ap et SCAND, generation loss of approx. B0MV is observed at Nathpa Ihakri HE-1 na natecedent condition, 400 KV Nathpa Ihakri(SI)- Racham Wangtoo(SV) (HBPC) (CK-1 AudV Nathpa Ihakri-Gumma CK-1 and 400 KV Nathpa Ihakri(SI)- HEP(SI) (PG) (CK-1 all carrying 47MW, 20MW & 120MW respectively. | 1) 400KV Bus 3 at Nathpa Jhakri(SJ) 2) 400KV Bus 1 at Nathpa Jhakri(SJ) 3) 400 KV Nathpa Jhakri(SJ)-Rarcham Wangtoo(JSW) (HBPCL) Ckt-1 4) 400 KV Nathpa Jhakri(SJ)-Ranchur HPE/SJ (PG) Ckt-1 5) 400/22 KV 25 MVA ST 1 at Nathpa Jhakri(SJ) 6) 400 KV Nathpa Jhakri(SJ)-Panchkula(PG) (PG) Ckt-1 | | |
| 18 | GD-1 | HARYANA | 30-Apr-2021 23:55 | 01-May-2021 00:40 | 0:45 | 0 | 190 | 0.000 | 0.381 | 36577 | 49930 | Ar reported, 320 KV Gurgaon(PG)-GurgaonSec72(HV) (HVPNL) Ck-1, Ck-2, Ck-2 & Ck-4 all tripped on Bus bar protection operated at 220KV GurgaonSec72(HV). As per PMU, R-N phase to earth fault followed by Y-N phase to earth fault is observed. As per SCADA, load loss of approx. 190MV is observed in Haryana region. In antecedent condition, 20 KV Gurgaon/GPG-GurgaonSec72(HV) (HVPNL) Ck-1, Ck-2, Ck-2 & Ck-4 canying 102MW, 79MW, 104MW & 131MW respectively. | 1) 220 KV Gurgaon(PG)-GurgaonSec72[HV] (HVPNL) Ckt-2 2) 220 KV Gurgaon(PG)-GurgaonSec72[HV] (HVPNL) Ckt-3 3) 220 KV Gurgaon(PG)-GurgaonSec72[HV] (HVPNL) Ckt-4 4) 220 KV Gurgaon(PG)-GurgaonSec72[HV] (HVPNL) Ckt-1 | | |

| | Category of Category of Loss of generation / loss of load vurit, t Antecedent Generation/Load in load vurit, t Antecedent Generation/Load in Antecedent Generation/Load in | | | | | | | | | | | | | | |
|--------|--|------------------|---|---------------------------------|---------------------|----------------------------------|---|--|---|-----------------------------------|-------------------------|---|---|--|--|
| Sl No. | Category of Grid Event | Affected Area | Time and Date of occurrence of Grid Event | Time and Date of Restoration | Duration (HH:MM) | Loss of gene load durin Ev | ration / loss of ng the Grid vent | % Loss of gen load w.r.t Generation Regional Gr Grid | eration / loss of Antecedent /Load in the id during the Event | Antecedent Genera the Regional | ation/Load in Grid* | Brief details of the event (pre fault and post fault system conditions) | Elements Tripped | | |
| | (GI 1or 2/ GD-1 to GD-5) | | Even | | | Generation Loss(MW) | Load Loss (MW) | % Generation Loss(MW) | M Koad Loss (MW) | Antecedent Generation (MW) | Antecedent Load (MW) | | | | |
| 1 | GD-1 | WR | 08-Apr-21 12:14 | 08-Apr-21 13:51 | 1:37 | 57 | - | 0.08% | - | 68907 | 59375 | At 12:14 Hrs on 08-04-21, 220kV Bhuj Bus-2B tripped on bus bar protection on R-E fault due to contact of foreign material with the bus (heavy wind reported by site) which resulted in tripping of A00/ 220kV Bhuj ICT - 2 and 220kV Bhuj - Davgara. Also, 220kV Bhuj - Alfanar (connected to Bus section 2C at Bhu S/S) tripped at Alfanar end and 220kV Bhuj - Naranpar (connected to Bus section 2A at Bhuj S/S) tripped at Naranpar end . Due these trippings, generation loss of 57 MW(30 MW at Naranpar, 15 MW at Dayapar and 12 MW at Alfanar) occurred. | Tripping of 1.220 KV Bhuj Bus 2B 2.400/220 KV Bhuj ICT 2 3.220 KV Bhuj-Dayapar 4.220 KV Bhuj-Alfanar 5.220 KV Bhuj-Naranpar | | |
| 2 | GI-1 | WR | 08-Apr-21 12:16 | 08-Apr-21 12:24 | 0:08 | 371 | - | 0.54% | - | 68809 | 59201 | At 12:16 Hrs on 08-04-21, 220 kV DGBP-Kasor 1 tripped on B-E fault. After this tripping 220/132 kV 100 MVA DGBP ICT became overloaded and resulted in LTS operation and tripping of 132 kV DGBP Dhanduka 182. At 12:24 Hrs, 220 kV DGBP-Kasor 2 autorectoed successfully on B-E fault. During the A/R of the line, 220/132 kV 100 MVA DGBP ICT and 220 kV Bus coupler tripped on B/U Over current protection operation. This resulted in tripping of DGBP Unit 3 on Over frequency protection operation due to the loss of evacuation path. | Tripping of 1.220 kV DGBP-Kasor 1 2.220/132 kV 100 MVA DGBP ICT 3.132 kV DGBP-Dhandhuka 1&2 4.DGBP Unit 3 | | |
| 3 | GI-1 | WR | 10-Apr-21 12:39 | 10-Apr-21 13:17 | 0:38 | - | - | - | - | 66390 | 57084 | At 12:39 Hrs/10-04-21, 220 kV Bhanpura Bus tripped on bus bar protection operation due to R phase PT failure and all the connected elements tripped. | Tripping of 1.220 kV Bhanpura-Modak 2.220 kV Bhanpura-Ranpur 3.220 kV Bhanpura-Swasra 4.220 kV Bhanpura-Nipaniya 5.220/132 kV Bhanpura ICT 1 | | |
| 4 | GD-1 | WR | 10-Apr-21 18:47 | 10-Apr-21 19:18 | 0:31 | - | 250 | - | 0.47% | 65596 | 52726 | At 18:47 Hrs on 10-04-21, 220 kV Chhuri-Bishrampur 2 tripped on R-E fault. Prior to this tripping, 220 kV Chhuri-Bishrampur 1 tripped on B-E fault at 17:52 Hrs. With these tripping, total interruption occurred at 220/132 kV Bishrampur s/s & 132 kV Ambikapur,Batoli,Udaipur, Wadrafnagar,Rajpur, Balrampur And Pratappur substations. | Tripping of 1.220 kV Chhuri-Bishrampur 1&2 | | |
| 5 | GI-2 | WR | 12-Apr-21 15:39 | 12-Apr-21 16:00 | 0:21 | 500 | - | 0.73% | - | 68175 | 58564 | At 15:39 Hrs on 12-04-21, 400 kV Koyna IV - Lonikhand and 220 kV Lonikhand-Khatapur tripped on R-E fault. During the tripping of these lines, 250 MW Koyna StagelV Units 2&3 also tripped. | Tripping of 1.400 KV Koyna IV - Lonikhand 2.220 KV Lonikhand-Khatapur 3.250 MW Koyna IV Units 2&3 | | |
| 6 | GD-1 | WR | 25-Apr-21 17:37 | 25-Apr-21 19:25 | 1:48 | - | 83 | - | 0.16% | 64064 | 53085 | At 17:37 Hrs on 25-04-21, 220 kV Sayali-Khadoli and 220 kV Sayali-Vaghchipa tripped on Y-E fault which resulted in blackout of 220 kV Sayali substation. There was a load loss of 83 MW due to the event. | Tripping of 1.220 kV Sayali-Khadoli 2.220 kV Sayali-Vaghchipa | | |
| 7 | GI-2 | WR | 27-Apr-21 12:36 | 27-Apr-21 13:35 | 0:59 | 795 | - | 1.20% | - | 66522 | 55887 | At 12:36 Hrs/27-04-21, While closing Isolator of Wanakbori GT-5, 400 kV Wanakbori-Wanakbori I/C 1&2 tripped on B/U Earth fault protection operation due to sparking in R phase isolator. After the tripping of I/C 1&2, Wanakbori Unit 8 tripped due to loss of evacuation path. | Tripping of 1.400 kV Wanakbori-Wanakbori I/C 1&2 2.800 MW Wanakbori Unit 8 | | |
| 8 | GI-2 | WR | 29-Apr-21 19:48 | 29-Apr-21 20:33 | 0:45 | - | - | - | - | 62822 | 49566 | At 19:48 Hrs on 29:04-21, 400 kV Akola Bus 1 tripped on BB protection operation due to sparking in 410 89A Bphase (Main Bay) isolator of 400 kV Akola Bhusawal line. 400 kV Akola-Akola(2) 1&2 should have been remained in service through the bays but tie bays tripped during the event and resulted in tripping of these lines. 400 kV Akola-Nandgaonpeth & 400 kV Akola-Bhusawal also tripped as the tie bays were already in open condition due to the outage of 400 kV Akola-Wardha 1&2 for diversion works. | Tripping of 1.400 kV Akola Bus 1 2.400 kV Akola- Bhusawal 3.400 kV Akola- Nandgaonpeth 4.400 kV Akola- Akoal(2) D/C | | |

| | Details of Grid Events during the Month of April 2021 in Western Region Image: Constraint of the second | | | | | | | | | | | | | | |
|-------|--|------------------|---|---------------------------------|---------------------|--------------------------------|---|---|---|-----------------------------------|-------------------------|--|--|--|--|
| Sl No | Category of Grid Event | Affected Area | Time and Date of occurrence of Grid Event | Time and Date of Restoration | Duration (HH:MM) | Loss of gene load duri E | eration / loss of ing the Grid vent | % Loss of gen load w.r.t. Generation Regional Gr Grid | eration / loss of Antecedent /Load in the id during the Event | Antecedent Genera the Regional | tion/Load in Grid* | Brief details of the event (pre fault and post fault system conditions) | Elements Tripped | | |
| | (GI 1or 2/ GD-1 to GD-5) | | | | | Generation Loss(MW) | Load Loss (MW) | % Generation Loss(MW) | % Load Loss (MW) | Antecedent Generation (MW) | Antecedent Load (MW) | | | | |
| 9 | GD-1 | WR | 29-Apr-21 23:05 | 29-Apr-21 23:50 | 0:45 | 20 | 428 | 0.03% | 0.80% | 67390 | 53272 | At 23:05 Hrs on 29-04-21, R-Phase CT of 132 KV Narsinghpur- Barman 2 blasted at Narsinghpur 5/ resulting in tripping of all the elements connected to 132 kV Narsinghpur Bus. After the tripping of 220/132 kV ICTs 1, 2 & 3 at 220 KV S/s Narsinghpur, due to load shifting 220 kV/132 kV Chichli ICT, 132 kV Pipariya – Bankhedi, 132 kV Chichli – Udaipura and 132 KV Jabalpur – Shahpura tripped on Backup O/C protection operation. Load served by 220 kV Chichli & Narsinghpur s/s, 132 kV Shahpura, Shrinagar, Barman, Gadarwara, Karakbel, Belkheda, Palohabada, Pondar, Bankhedi, Devnagar and Karapgaon substations affected due to the event. | Tripping of 1.132 kV Narshingpur Bus 2.132 kV Narsinghpur-Barman 1.8.2 3.132 kV Narsinghpur-Aarsinghpur (/C 1.8.2 4.220/132 kV Narsinghpur-Gadarwara 6.220/132 kV Chichli IICT 7.132 kV Chichli IICT 7.132 kV Chichli-Udhaypura 8.132 kV Jabajur-Shahpura 9.132 kV Jipariya-Bhankedi 10.132 kV Gadarwara-BLA 1.8.2 | | |
| 10 | GI-1 | WR | 30-Apr-21 20:00 | 30-Apr-21 20:36 | 0:36 | 42 | - | 0.06% | - | 65276 | 48146 | At 20:00 hrs on 30.04.2021 while withdrawing SSP CHPH Unit-5 as per schedule, its Y-phase circuit breaker didn't open due to which bus bar protection operated and 220 KV Bus-2 at SSP CHPH tripped along with 50 MW Unit-2 and 220 kV SSP CHPH-RBPH 2. | Tripping of 1.220 kV SSP CHPH Bus 2 2.220 kV SSP CHPH- RBPH 2 3.50 MW SSP CHPH Unit 2 | | |
| 11 | GD-1 | WR | 27-Mar-21 15:01 | 27-Mar-21 21:59 | 6:58 | 20 | - | 0.03% | - | 65011 | 53141 | On 27-03-2021 at 15:01 hrs, 220kV Nanavalka (Alfanar wind)- Bhuj line tripped on B-E fault due to tree fault (due to gusty wind at near Nirona village) between tower loc no. 20-21 without A/R attempt. Due to loss of evacuation path, 20 MW wind generation of Alfanar was lost. | Tripping of 1. 220kV Nanavalka- Bhuj | | |
| 12 | GI-1 | WR | 30-Mar-21 11:54 | 30-Mar-21 12:21 | 0:27 | - | - | - | - | 68081 | 55613 | At 11:54 hrs on 30-03-2021, fault occurred at 220kV Pithampur 5/s Bus-1 due to bursting of R phase CT of 220 kV Pithampur – Pithampur Section 1 line. As the bus bar protection did not operate, all the connected 220 KV lines along with the 400/220 KV ICTs tripped on backup protection to clear the fault. | Tripping of 1. 220 KV Interconnector 1 (Sec 3) 2. 220 KV Interconnector 1 (Sec 3) 3. 220 KV Pithampur – Badnagar 4.220 KV Pithampur – Deplapur 6.315 MVA 400/220 KV ICT-1 7.315 MVA 400/220 KV ICT-3 | | |

| | Category of Grid ** Loss of generation / loss for de wurt. A Intecedent Generation/Load in Generation/Load in Antecedent Generation/Load in Antecedent Generation/Load in | | | | | | | | | | | | | | |
|--------|---|---|---|--|-------|--|------------------|-------|-----------------|-----------|--|--|--|--|--|
| Sl No. | Category of Grid Event | Affected Area | Time and Date of occurrence of Grid Event | Date of c of Grid nt Time and Date of Restoration Duration (HH:M) 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 Grid during the Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid Grid | | Brief details of the event (pre fault and post fault system conditions) | Elements Tripped | | | | | | | | |
| | GD-1 to GD-5) | | | | | Loss(MW) (MW) | Loss(MW) | (MW) | Generation (MW) | Load (MW) | 220 V/ Budbland yr Lannan dd 18,7 trianad a' 12,47 and 12,48 byr raynardiudu' fallouud bu trianian of Budbland yr Palawh an | | | | |
| 1 | 60-1 | Budhipadar, IB thermal and Vedanta s/s. | 44294.57431 | 44294.67153 | 02:20 | 560 100 | 2.34% | 0.49% | 23869 | 20357 | Actors have been by have fault with delayed dearance of 1 sec, now all the generation of that complex was being evacuated via Tarkera D/C and Korba D/C. At increased loading of Tarkera D/C, ckt 1 also developed B phase fault (Jumper melting as per preliminary information) at 14:06:27 Hrs and tripped , As Tarkera Ckt-1 tripped, ckt-2 flow increased very much and at 14:07:24 Hrs with Ckt-2 a bus fault was created at BUS-1 (with snapping of R-Ph pipe bus from inclator to Breaker of 220KV Budhipadar-Tarkera Ckt-2). All the remaining feeders with Bus -1 tripped , ow with Bus bar operation Korba-2 also tripped at the same time. Now as only Korba 3 is the only available path for evacuation of all generation hence it also tripped on power swing. With all evacuating sources out, IBTPS and Vedanta.Bhusan formed kland with its own CPP load but due to excess generation of approx. 560 Mw (Vedanta-250, IB=250, Bhusan=50, pre event exchange with grid) over frequency occurred and also all generators tripped on Over frequency . There was 1120 MW generation loss in v260 KV station(all 9 units of 135MW each) with 860 MW captive load loss, thus 260 MW injection loss to Gridoc. 250 MW generation loss in 220 KV IB thermal station, and 50 MW injection loss for midoc. 250 MW excess the Budarta 220 KV station(all 9 units of 135MW each) with 860 MW captive load loss, thus 260 MW injection loss to Gridoc. 250 MW generation loss in 220 KV IB thermal station, and 50 MW injection loss for mBhushan Power and steel, 100 MW loss in local loads of Budhipadar , iharsguda and Sundergarh. Above events led to total voltage loss in 220 KV Budhipadar, IB thermal and Vedanta s/s. | 220KV-BUDHIPADAR-LAPANGA-1 220KV-BUDHIPADAR-LAPANGA-2 220KV-BUDHIPADAR-RAGARH 220KV-BUDHIPADAR-TARKEBA-1 220KV-BUDHIPADAR-TARKEBA-2 220KV-BUDHIPADAR-KORBA-2 220KV-BUDHIPADAR-KORBA-3. | | | |
| 2 | GD-1 | Garwah | 44294.73542 | 44294.83264 | 08:20 | 0 40 | 0.00% | 0.20% | 22976 | 19952 | At 17:39 hrs 220 KV Daltongunj – Garwah 2 tripped on B-N fault and at 17:43 Hrs, ckt-1 also tripped on B-n fault with same relay indication as of ckt-2, As a result, around 40 MW load loss occurred at Garwah (Traction load of 15 MW and Domestic load of 25 MW). | 220 kV Daltongunj – Garwah 1 220 kV Daltongunj – Garwah 2 | | | |
| 3 | GD-1 | Rangpo, Rongnichu, Tashiding, Jorethang, New Melli, Gangtok ,Chuzachen | 44294.66181 | 44294.70833 | 01:07 | 28 37 | 0.11% | 0.17% | 24252 | 20752 | 400/220 kV ICT 2 at Rangpo out for \$F6 gas leakage rectification work in ICT-2 GIS Module. At 15:53 hrs all four running ICTs 1,3,4,5 at Rangpo tripped from HV side on backup impedance protection with inter trip to LV side. So at that time Only running unit of Tashiding 28 Mw along with 37 mw of Gangtok load islanded and did not survived due to large imbalance. Hence 28 Mw generation loss at Tashiding and 37Mw load loss at Gangtok courde. Above events led to total voltage loss in 220 KV Rangpo, Rongnichu, Tashiding, Jorethang, New Melli and 132 KV Gangtok and 132 kV Chuzachen. | 315 MVA ICT 1,3,4,5 | | | |
| 4 | GD-1 | Jorethang, Tashiding, New Melli | 44295.74097 | 44295.79583 | 01:19 | 36 0 | 0.14% | 0.00% | 25254 | 19105 | At 17:47 hrs 220 kV Rangpo – New Melli S/C tripped from Rangpo end in Zone-1 and same fault was sensed by 220 kV Tashding –New Melli and this line also tripped from Tashding end in zone-3 due to non-clearance of fault from New melli end. 220 kV Rangpo-Tashding S/C also tripped on the same time on R-Y phase fault encroaching the same fault from Rangpo end in Zone-3. As a result, around 36 MV generation loss occurred at Jorethang HP due to loss of exocutation path. There was no generation at Tashding. Delayed clearance of fault (around 800 ms) has been observed in PMU data | 220KV-RANGPO-NEW MELLI-S/C 220KV-RANGPO-TASHIDING-S/C 220KV- NEW MELLI—TASHIDING S/C. | | | |
| 5 | GD-1 | Sonenegar | 44301.67222 | 44302.68958 | 00:25 | 0 120 | 0.00% | 0.50% | 23879 | 20303 | 220KV Chandauti-Sonenager D/C tripped at 16:08 hrs led to total power failure at GSS Sonenagar (BSEB). As reported by SLDC Bihar, during relay testing of upcoming 160 MVA Transformer -3 at Sonenagar (GSS) by Siemens relay engineer, LBB protection operated which resulted tripping of both the lines. 220KV Chandauti-Sonenager D/C couldn't be restored yet due to repeated charging attempt failed at S'nagar(GSS) end | 220KV-CHANDAUTI (PMTL)-SONENAGAR-1 220KV-CHANDAUTI (PMTL)-SONENAGAR-2 | | | |
| 6 | GD-1 | Tashiding | 44302.69861 | 44302.71667 | 00:26 | 0 0 | 0.00% | 0.00% | 24102 | 19462 | 220kV Tashiding substation is having only two interconnections ,220 kV Tashiding-New melli S/C and 220 kV Tashiding-Rangpo S/C. At 16-46, 220 kV New Melli-Tashiding tripped on 3 phase fault at the same time, 220 kV Rangpo-Tashiding also tripped from Rangpo end only on same 3 phase fault isolating 220 kV Tashiding station, though there was no generation loss as it had no schedule. | 220KV-TASHIDING-RANGPO-1 220KV-NEW MELLI-TASHIDING-1 | | | |

| | | Details of Grid Events during the Month of April 2021 in Eastern Region Category of Grid So of generation / loss of load during the Grid during the Grid during the Grid and in the Generation/Load in Antecedent Generation/Load in | | | | | | | | | | | | | | |
|-------|-------------------------------|--|--|--|-------|------------------------|-------------------|--|---|--------------------------------|---------------------------|---|--|--|--|--|
| SI No | Category of Grid Event | Affected Area | real Time and Date of occurrence of Grid Event Time and Date of Restoration of Restoration of Participation of Restoration of Construction of Construct | | | | | % Loss of g of load w.r Generation Regional G Grid | eneration / loss at Antecedent n/Load in the rid during the l Event | Antecedent Gener the Region | ration/Load in al Grid | Brief details of the event (pre fault and post fault system conditions) | Elements Tripped | | | |
| | (GI 1 or 2/ GD-1 to GD-5) | | | | , | Generation Loss(MW) | Load Loss (MW) | % Generation Loss(MW) | % Load Loss (MW) | Antecedent Generation (MW) | Antecedent Load (MW) | | | | | |
| 7 | GD-1 | Garwah | 44307.65278 | 44307.78194 | 03:06 | 0 | 40 | 0.00% | 0.19% | 24776 | 21152 | At 15:40 hrs 220 kV Daltongunj – Garwah 1 & 2 tripped on 8-N fault. As a result, around 40 MW load loss occurred at Garwah (Traction load of 15 MW and Domestic load of 25 MW). | 220 kV Daltongunj – Garwah 1 220 kV Daltongunj – Garwah 2 | | | |
| 8 | GD-1 | Lalmatia, Godda, Sahebganj | 44307.7375 | 44307.75069 | 00:19 | 0 | 120 | 0.00% | 0.59% | 24876 | 20399 | 220kV Farakka- Laimatia, 132kV Kahalgaon (NTPC)- Laimatia & 132kV Kahalgaon (8SPTCL)- Laimatia tripped at 17:42 hrs. 17:52 hrs & 17:58 hrs respectively due to bad weather (storm and heavy rain). Tower collpase reported for 220 kV Godda- Laimatia D/C and 220 kV Farakka Laimatia S/C. At 18:08 Hrs, 132 kV Sahebgani was given power through 132 kV Kajmahai-Sahebganj ckts to feed traction supply. 132 kV bumia-laimatia 1 was charge to supply power to 220/132 kV Laimatia S/C at 18:21 Hrs. At 20:05 220 kV Dumka-Godda D/C was closed at godda to supply power to 220/132 Godda. | 220 KV Farakka- Lalmatia 132 KV Kahalgaon (NTPC)- Lalmatia 132 KV Kahalgaon (BSPTCL)- Lalmatia | | | |
| 9 | GD-1 | Teesta-3 | 44309.55625 | 44309.64236 | 02:04 | 148 | 0 | 0.69% | 0.00% | 21810 | 19342 | 4000KV Teesta-3 substation is having only two interconnections, 400 KV Teesta-3-Kishangunj S/C and 400kV Teesta-3 -Dikchu S/C. At 13-21, 400 kV Teesta-3-Kishangunj tripped on B-phase fault at the same time,400 kV Teesta-3 -Dikchu also tripped on same fault. However, voltage dip and fault current rise were low resulting in sensing of fault by Directional Earth fault. As a result, around 148 MW generation loss occurred at TEESTA III due to loss of evacuation path. There was no generation at Dikchu | 400 kV TEESTA-3-KISHANGUNI 400 kV TEESTA-3 -DIKCHU | | | |
| 10 | GD-1 | Garwah | 44315.5625 | 44309.83958 | 06:39 | 0 | 35 | 0.00% | 0.00% | 24671 | 21090 | At 12:34 hrs 220kV Daltongunj-Garwah (New) -2 tripped on B-Earth fault during restoration of said line after necessary checking (as line is frequently tripping from last few days) 220kV Daltongunj-Garwah (New)-1 also tripped on B-Earth fault at 13:30 hrs leading to power failure at 220kV Garwah substation. Around 20MW of traction load and 15 MW of New Garwah local load loss occurred. Traction load immediately shifted on Sonenagar (BSEB) source through Japla. | 220 kV Daltongunj – Garwah 1 220 kV Daltongunj – Garwah 2 | | | |
| 11 | GI-2 | Farakka | 44315.86111 | Lines under breakdown; unit 6 restored at 01:19 hrs on 30-04-21 | 04:39 | 450 | 0 | 1.67% | 0.00% | 26936 | 22248 | At 20:40 Hrs, 400 KV FSTPP-Durgapur D/c, 400 KV FSTPP-New Purnea (From New Purnea end only), FSTPP U#6 tripped.Multiple faults in PMU observed.No complete blackout generation rescheduling. It was reported that 220 KV Faraka-Laimtia S/C which was out due to tower collapse since 21 april 2021 has observed another twoer collpase near Farraka end and as it was passing above 220 kV Farakka-Durgapur D/C so resulted in the fault on these circuits. | 400KV-Durgapur-FSTPP-2 400KV-New Purnea-Farakka-1 400KV-FSTPP-Durgapur-1 FSTPP Unit-6 | | | |
| 12 | GD-1 | Garwah | 44315.94236 | 44316.00694 | 02:03 | 0 | 20 | 0.00% | 0.09% | 27792 | 22543 | At 22:37 Hrs, 220 KV Daltonganj-Garwah (New)-2 tripped on R-Y-Earth fault leading to power failure at 220/132 Garwah (New) S/s (220 KV Daltonganj-Garwah (New)-1 was already under tripped condition). Total around 20 MW load loss occurred (including 15 MW traction loss of Garwah). Indement weather reported around Garwah. | 220 kV Daltongunj – Garwah 1 220 kV Daltongunj – Garwah 2 | | | |

| Details of Grid Events during the Month of April 2021 in Southern Region Grid Event Time and Date of occurrence of Grid Time and Date of occurrence of Grid Loss of generation / loss of // % Loss of generation / Loss of ge | | | | | | | | | | | | | | |
|--|-------------------|------------------------------|----------------|---|---------------------------------|------------|---|-------------------|--|-----------------------------------|--------------------------|---------------------------------|--|---|
| - | Cate | gory of | | | | | Loss of gener | ration / loss of | % Loss of gene | ration / loss of | Antecedent Generati | on/Load in the | | |
| sı | No. (GI GD-1 t | LEvent 1or 2/ to GD-5) | Affected Area | Time and Date of occurrence of Grid Event | Time and Date of Restoration | Duration | load during t Generation Loss(MW) | Load Loss (MW) | load w.r.t A % Generation Loss(MW) | Antecedent % Load Loss (MW) | Regional Generation (MW) | Grid Antecedent Load (MW) | Brief details of the event (pre fault and post fault system conditions) | Name of Elements (Tripped/Manually opened) |
| | 1 G | iD-1 | Andhra Pradesh | 03-Apr-21 20:55 | 03-Apr-21 22:50 | 1hr 55mins | 0 | 0 | 0.00 | 0.00 | 39532 | 47310 | Complete Outage of 220kV VSS of APTRANSCO: Triggering incident was snapping of Earth wire of 220kV VSS Gajuwaka feeder at VSS end on Y and B phase jack bus of Bus-1 and Bus-1. This resulted in operation of Bus-1 and 2 BBP at 220kV VSS and all the connected elements got tripped including 400/220kV Gazuwaka ICT#1 and ICT#2 | i. 220kV VSS-PENDURTHI 1& 2 ii. 220 kV VSS- KALPAKA 1 & 2 iii. 400/220K Vszuwaka ICTH1 and ICT#2 iv. 220 kV VSS- KAKINADA v. 220 kV VSS- MR5 1 and 2 v. 220 kV VSS- GALWWAKA |
| | 2 G | iD-1 | TamilNadu | 08-Apr-21 03:29 | 08-Apr-21 07:18 | 3hr 49min | 1045 | 0 | 0.03 | 0.00 | 37331 | 45187 | Complete Outage of 230kV TTPS of TANGEDCO: During antecedent conditions, 230kV TTPS Checkanurani line was under outage and 5 units were in service with an antecedent generation of around 1000MW at TTPS. Triggering incident was tripping of 230kV TTPS TTM-2 on fault at 03.29hrs. After the tripping of this line, 230kV TTPS TTM-10ading got increased and subsequently line tripped due jumper cut. After this event one by one all connected lines started tripping due to jumper out susses when loading was increased. Later running units got tripped on operation of over frequency protection due to loss of evacuating lines. This resulted in complete outage of 230kV TTPS. | i. TTPS TTN Auto-1 and 2 ii. TTPS KMpetha iii. TTPS KMpetha-1 and 2 iv. TTPS Sterlite v. TTPS Stadurai vi. TTPS Stodurai vi. TTPS Stodurai vi. TTPS Stodurai viii. TTPS UP11,2,3,4, and 5 |
| | 3 G | iD-1 | Kerala | 15-Apr-21 14:46 | 15-Apr-21 03:26 | 51min | 35 | 600 | 0.00 | 0.01 | 40107 | 46161 | Complete loss of supply at of 220kV Edappon SS, 220kV Kundara SS, 220kV Kayamkulam GS, 220kV Panapura SS, 220kV New Pallom SS and 220kV Pallom SS of KSEE. During antecedent conditions, due to outage of 220kV laukk New Pallom, 220kV Ambalamug Pallom (Janned outage) 220kV Sabairgin Ambalamug) (Janned outage) and 220kV Sabairgi Pallom(luto to faulk). 220kV Ambalamug) (Janned outage) and 220kV Sabairgi Pallom(luto to faulk). 220kV Sabairgi Pallom SS, 220kV New Pallom SS 220kV Sabairgi Pallom(luto to faulk). 220kV Sabairgi Pallom SS, 220kV Kalamo SK, 220 | i.220KV Edamon Kundara ii.220KV Edamon Pothenecode#1 iii.220KV Edamon Edappon iv.220KV ThirueVeli Edamon#1 v.200MVA Transformer at Edamon |
| | 4 G | iD-1 | Telangana | 16-Apr-21 13:37 | 16-Apr-21 02:21 | 44min | 354 | 474 | 0.01 | 0.01 | 42058 | 47758 | Complete Outage of 220kV Veltoor SS and 220kV Wanaparthy SS of TSTRANSCO, 220kV SE Solaar, 220kV RENEW Solar and 220kV Shapur Solar:Triggering incident was fault in 220kV Veltoor Wanaparthy line 2. At the same time, BBP of Bus-1 and 2 at 220kV Veltoor operated resulting in the tripping of all connected elements. Since 220kV Wanaparthy SS was radially fed from 220kV Veltoor SS during antecendent. This resulted in loss Jouphy at 220kV Wanaparthy SS. Use I loss of evacuation, there was complete outage at 220kV Veltoor connected solar generators namely 220kV SE Solar, 220kV Shahpur Solar and 220kV RENEW Solar. | 1.220KV Veltoor- Mahaboobnagar 1 & 2 ii.220KV Veltoor - Thimmajipeta 1 & 2 iii.220KV Veltoor-lower Jurala iv.220KV Veltoor-Ourglapatyagatu 1 vi.220KV Veltoor- Gudgalayagatu 1 vi.220KV Veltoor- Transform Solar viii. 220KV Veltoor- Transform Solar viii. 220KV Veltoor-Renew 2 iv.220KV Veltoor-Renew 2 vi.2002/SVK Mahaboobnagar (CT 1,2,3 and 4 |
| | 5 G | iD-1 | Karnataka | 19-Apr-21 08:21 | 19-Apr-21 09:03 | 42min | 0 | 32 | 0.00 | 0.00 | 38685 | 46584 | Complete Outage of 220kV Kadra PH of KPCL and 220kV Karwar SS of KPTCL: As per the report submitted, while de-synchronising U#1, due to non opening of B-pole breaker, IBB operated resulting in the tripping of all elements connected at 220kV Kadra Bus-1. Since all elements were connected only in Bus-1 during antecedent, this resulted in complete (loss of supply at 220kV Kadra PH. As 220kV Karwar SS was radially fed from 220kV Kadra PH, this further resulted in complete loss of supply at 220kV Karvar SS. | i. 220kV Kadra Kaiga ii. 220kV Kadra Kodasalli |
| | 6 G | iD-1 | Tamilnadu | 19-Apr-21 10:43 | 19-Apr-21 11:41 | 58min | 0 | 180 | 0.00 | 0.00 | 44163 | 50035 | Complete Outage of 230kV Karambayam SS of TANTRANSCO. Triggering incident was Bus-2 BBP operation at 230kV Karambyam SS due to B phase jumper cut in Bus-2 of 230kV Karambyam line. Since all elements were connected only in Bus-2 during antecedent, this resulted in complete loss of supply at 230kV Karambyam SS. | i. 230kV Karaikudi Karambyam ii. 230kV Thiruvarur Karambyam iii.230/110kV 100MVA, Transformer 1,2, &3 |
| | 7 G | iD-1 | Andhra Pradesh | 21-Apr-21 21:03 | 02-Apr-21 22:00 | 57mins | 420 | 0 | 0.01 | 0.00 | 33479 | 43536 | Complete Outage of 400kV RYTPP of APGENCO: Due to subsequent tripping of connected 400kV RYTPP Kalikiri line-1 and 2 on SLG fault, there was complete loss of supply at 400kV RYTPP. Station Transformer#G also got tripped during the event. Details are awaited. | i. 400kV RYTPP Kalikiri Line-1 and 2 ii. Station Transfomer-6 |
| | 8 G | 51-1 | Tamil Nadu | 02-Apr-21 20:01 | 02-Apr-21 21:09 | 1hr 8mins | 0 | 320 | 0.00 | 0.01 | 47407 | 57141 | Tripping of 110kV Bus of 400kV/230kV/110kV Thiruvalam SS of TANTRANSCO: Triggering incident was failure of B phase CT of 110kV Thiruvalam Vellore line1. This resulted in bus fault and 110kV BBP operated resulting in the tripping of all elements connected at 110kV Thiruvalam bus. 230kV and 400kV bus were intact during this event. | i. 110kV Vellore-1 and 2 ii. 110kV Kaliway-1 and 2 iii. 110kV Sagar mill iv. 110kV Karnambut v. 230/110VT ransformer 1, 2,3&4 vi. 110kV Kaveripakkam vii. 110kV MV Puram viii. Gudhyatam |
| | 9 G | 51-1 | Tamil Nadu | 03-Apr-21 00:03 | 03-Apr-21 00:45 | 42mins | 0 | 290 | 0.00 | 0.01 | 47407 | 57141 | Tripping of 110kV Bus of 400kV/230kV/110kV Sriperumbudur SS: Triggering incident was failure of R phase CT of LV side of 400kV/110kV (CT#S at Sriperumbudur. This resulted in bus fault and 110kV BBP operated resulting in the tripping of all connected elements at 110kV Sriperumbudur bus. 230kV and 400kV bus were intact during this event. | i. 400/110kV ICT-4 at Sriperumbudur ii. 400/110kV ICT-5 at Sriperumbudur iii. 110kV Thirvellore iv. 110kV Mosur line#1 v. 110kV Mosur line#1 v. 110kV Norur 182 vi. 110kV Neervalur vii. 110kV Neervalur |
| : | .0 G | 51-1 | Andhra Pradesh | 15-Apr-21 17:30 | 15-Apr-21 17:45 | 15mins | 0 | 0 | 0.00 | 0.00 | 35240 | 42819 | Tripping of Bus-2 of 220kV Gooty SWS of APTRANSCO: Due to operation of Bus-2 BBP at 220kV Gooty SWS, all the elements connected to Bus-2 got tripped at 220kV Gooty SWS. Details are awaited. | i. 400/220kV ICT-3 and 3 at Gooty ii. 220kV Dhon line-2 iii. 220kV Uhterke Chement iv. Shahpuram v. Gody RTSS(Rallways) vi. Boyareddypalli line |
| : | .1 6 | 51-1 | Andhra Pradesh | 23-Apr-21 15:34 | 23-Apr-21 16:29 | 55min | 0 | 0 | 0.00 | 0.00 | 36425 | 44402 | Tripping of Bus-2 at 220kV Lower Sileru PH of APGENCO: Triggering incident was fault in 220kV KTPS Lower Sileru line-2. At the same time, 220kV Asupaka Lower Sileru line-1 also got tripped only at Lower Sileru end because of rely restarting issue. Due to tripping of both the connected lines, there was de-energization of Bus-2 at 220kV vower Sileru PH diver Bis vent. | i. 220kV Asupaka Lower Sileru line-1 ii. 220kV KTPS Lower Sileru line-2 |

| | Category of Grid Time and Date of occurrence of Grid Time and Date of occurrence of Grid Loss of generation / loss of load %.r.t Antecedent Generation/Load in the Regional Grid Antecedent Generation/Load in the Regional Grid Elements Trinoed | | | | | | | | | | | | | |
|-------|---|---|-----------------------------|---------------------------------|------------------------|------------------------|---|-------------------------------------|---|----------------------------------|-------------------------|---|---|--|
| | Category of Grid | 1 | Time and Date of | | | Loss of gene | ration / loss of load the Grid Event | % Loss of generat Antecedent Gen | tion / loss of load w.r.t peration/Load in the | Antecedent Ge Reg | eneration/Load in the | | ~~ 8000 | |
| SI No | (GI 1or 2/ GD-1 to GD-5) | Affected Area | occurrence of Grid Event | Time and Date of Restoration | Duration (HH:MM:SS) | Generation Loss(MW) | Load Loss (MW) | % Generation Loss(MW) | % Load Loss (MW) | Antecedent Generation (MW) | Antecedent Load (MW) | Brief details of the event (pre fault and post fault system conditions) | Elements Tripped | |
| 1 | GD 1 | PK Bari area of Tripura Power System | 01-Apr-21 00:58 | 01-Apr-21 01:38 | 0:40:00 | 0 | 11 | 0.0 | 0.0 | 1602 | 1196 | PK Bari area of Tripurn Power System is connected with rest of NER grid through 132 kV RC Nagar- PK Bari DC lines, 132 kV PK Bari-Kumarghat Line, 132 kV PK Bari-PK Bari(Sterlite) line, 132 kV PK Bari-Kamalpur line &132 kV PK Bari-Oharmangar line. A 00-88 Hr on 01.64 202, 123 kV PK DK C Nagar-PK Bari DC lines, 132 kV PK Bari-Ekumarghat Line, 132 kV PK Bari-PK Bari(Sterlite) line, 132 kV PK Bari-Kamalpur line &132 kV PK Bari-Dharmanagar line tripped on LBB operation at PK Bari Substation. Due to tripping of these elements, PK Bari area of source in this area. | 132 kV RC Nagar-PK Bari D.C lines, 132 kV PK Bari-Kumarghat Line, 132 kV PK Bari-Ken Bari/Sterlite) ine, 132 kV PK Bari-Komapur line &132 kV PK Bari-Dharmanagar line | |
| 2 | GD 1 | Udaipur area of Tripura Power System | 01-Apr-21 10:47 | 01-Apr-21 11:38 | 0:51:00 | 0 | 27 | 0.0 | 0.0 | 1564 | 1580 | Udaipur area of Tripura Power System is connected with rest of NER grid through 132 kV Palatana- Udaipur line. 132 kV Udaipur-Monarchak line was under forced outage. At 10-47 Hrs on 01-04-2021, 132 kV Palatana-Udaipur line tripped. Due to tripping of this elements, Udaipur area of Tripura Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area. | 132 kV Palatana-Udaipur line 1 | |
| 3 | GD 1 | Karong area of Manipur Power System and Wokha area of Nagaland Power System | 02-Apr-21 03:24 | 02/Apr/21 04:35 | 1:11:00 | 0 | 10 | 0.0 | 0.0 | 1907 | 1377 | Karong area of Manipur Power System and Wokha area of Nagaland Power System were connected with the rest of NER Grid through 132 kV Imphal(MSPCL) - Karong line, 132 kV Karong-Kohima line & 132 kV Kohima - Wokha Line, 132 kV Sanis-Wokha line was under outage since 02:50 Hs on 02.04.2021. At 03:24 Hrs on 02.04.2021, 132 kV Imphal(MSPCL) - Karong line, 132 kV Karong-Kohima line & 13 kV Kohima - Wokha Line tripped. Due to tripping of these elements, Karong area of Manipur Power System and Wokha area of Nagaland Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas. | 1 132 kV Imphal(MSPCL) - Karong line, 132 kV Karong-Kohima line & 132 kV Kohima - Wokha Line | |
| 4 | GD 1 | Ziro, Daporijo, Along, Pasighat, Roing, Tezu and Namsui areas of Arunachal Pradesh Power System | 05-Apr-21 00:12 | 05-Apr-21 00:44 | 0:32:00 | 0 | 15 | 0.0 | 0.0 | 1564 | 1580 | Ziro, Daporijo, Along, Pasighut, Roing, Tezu and Namsai areas of Aramachal Pradesh Power System is connected with rest of NER grid through 132 kV Ranganadi - Ziro line. At 00:12 Hrs on 05.04.21, 132 kV Ranganadi - Ziro line tripped. Due to tripping of this element, Ziro, Daporijo, Jong, Pasighat, Roing, Tezu and Namsai areas of Aramachal Pradesh were separated from res of NER Grid and subsequently collapsed due to no source in these areas. | t 132 kV Ranganadi - Ziro line | |
| 5 | GD 1 | Tinsukia area of Assam Power System | 08-Apr-21 11:30 | 08-Apr-21 12:20 | 0:50:00 | 0 | 65 | 0.0 | 0.0 | 885 | 1975 | Tinsukia area of Assam Power System is connected with rest of NER grid through 220 kV AGBPP - Tinsukia Di C Lines, 220 kV Tinsukia-NTPS line & 220 kV Tinsukia-NRPP line. At 11:20 Hrs on 08.04.21, 220 kV AGBPP - Tinsukia DC Lines, 220 kV Tinsukia-NTPS line & 220 kV Tinsukia-NRPP lines tripped. Due to tripping of these elements, Tinsukia area of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in this area. | 220 kV AGBPP - Tinsukia D/C Lines, 220 kV Tinsukia-NTPS line & 220 kV Tinsukia-NRPP line | |
| 6 | GD 1 | Kohima and Wokha area of Nagaland Power System | 10-Apr-21 14:00 | 10-Apr-21 14:40 | 0:40:00 | 0 | 10 | 0.0 | 0.0 | 1076 | 2070 | Kohima and Wokha areas of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimaput(PG) - Kohima, and 132 kV Sanis-Wokha Lines. 132 kV Kohima-Karong Line was under emergency shutdown. At 1400 Hrs on 10.04.2021, 132 kV Dimaput(PG) - Kohima, 132 kV Kohima - Melnri, 132 kV Wokha Kohima and 132 kV Sanis-Wokha Lines tripped. Due to tripping of these elements, Kohima area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in these areas. | 132 kV Dimapur (PG)- Kohima, 132 kV Kohima - Meluri, 132 kV Sanis- Wokha & 132 kV Wokha-Kohima line | |
| 7 | GD 1 | Yiangangpokpi area of Manipur Power System | 12-Apr-21 01:45 | 12-Apr-21 02:24 | 0:39:00 | 0 | 17 | 0.0 | 0.0 | 1437 | 1624 | Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(MSPCL) - Yiangangpokpi DC Lines . 152 kV Thoubal-Kakching Line was kept open for system requirement. At 01:45 Hrs on 12.04.2021, Imphal(MSPCL) - Yiangangpokpi DC Lines tripped. Due to tripping of these elements. Yiangangpokpi area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area. | 132 kV Imphal(MSPCL) - Yiangangpokpi D/C Lines | |

| | Category of Grid Event Time and Date of Event Time and Date of compression of Grid Event Time and Date of during the Grid Event % Loss of generation / loss of load w.r.t. Antecedent Generation/Load in the Regional Grid Regional Grid Regional Grid Float the float flo | | | | | | | | | | | | | |
|--------|--|--|-----------------------------|---------------------------------|------------------------|------------------------|--|-------------------------------------|---|--------------------------|--------------------------------------|---|--|--|
| | Category of Grid | 1 | Time and Date of | | | Loss of gene | ration / loss of load he Grid Event | % Loss of general Antecedent Gen | tion / loss of load w.r.t neration/Load in the | Antecedent G | eneration/Load in the zional Grid | | ~050C0 | |
| Sl No. | (GI 1or 2/ GD-1 to GD-5) | Affected Area | occurrence of Grid Event | Time and Date of Restoration | Duration (HH:MM:SS) | Generation Loss(MW) | Load Loss (MW) | % Generation | % Load Loss (MW) | Antecedent Generation | Antecedent Load | Brief details of the event (pre fault and post fault system conditions) | Elements Tripped | |
| 8 | GD 1 | Yiangangpokpi area of Manipur Power System | 12-Apr-21 14:08 | 12-Apr-21 14:19 | 0:11:00 | 0 | 15 | 0.0 | 0.0 | (MW) | 1981 | Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(MSPCL) - Yiangangpokpi II Line, 132 kV Thoubal-Kakching kept open for system requiremen & 132 kV Imphal(MSPCL) - Yiangangpokpi I Line was under shudown. At 14:08 Hrs on 12.04.2021, 132 kV Imphal(MSPCL) - Yiangangpokpi II line tripped. Due to tripping of this clement, Yiangangpoki area of Manipur Power System was separated from the rest of NER Gri and subsequently collapsed due to no source in this area. | 132 kV Imphal(MSPCL) - Yiangangpokpi II Line | |
| 9 | GD 1 | Ningthoukhong area of Manipur Power System | 13-Apr-21 15:05 | 13/Apr/21 15:39 | 0:34:00 | 0 | 35 | 0.0 | 0.0 | 992 | 2050 | Ningthoukhong area of Manipur Power System was connected with the rest of NER Grid through 132kV Imphal-Ningthougkhong Line & 132 kV Loktak-Ningthougkhong Line . 132 kV Kachting - Thouhal Line was in open condition due to system requirement as well 132 kV Jiribam-Loktak Line was out due to Planned Shuddown of Jiribam Bus. At 15:05 hrs on 13.04.2021,132 kV Imphal-Loktak Line, 132kV Imphal-Ningthougkhong Line & 132 kV Loktak-Ningthougkhong Line tripped. Due to tripping of these elements.Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area. | 132 kV Imphal-Loktak Line, 132kV Imphal-Ningthougkhong Line & 132 kV Loktak-Ningthougkhong Line | |
| 10 | GD 1 | 132 kV Khleihriat(PG) Substation, Khleihriat(Meghalaya), NEIGRHIMS areas of Meghalaya Power System and Leska Power station | 16-Apr-21 03:35 | 16-Apr-21 05:34 | 1:59:00 | 48 | 40 | 0.0 | 0.0 | 1361 | 1637 | 132 kV Khleihriat(PG) Substation, Khleihriat(Meghalaya), NEIGRIHMS areas of Meghalaya Power System and Leska Power station were connected with the rest of NER Grid through 132kV Khandong- Khleihriat(PG) DC lines, 132 kV Khleirait(MePTCL)-Lumsthong, 132 kV Khleirait(MePTCL)-Mustem & 132 kV NEHV-NEIGRIHMS lines, 132 kV Badarpur-Khleihriat(PG) line under tripped conditon w.e.f 03:17 Hrs of 16.04.21. At around 03:35 hrs on 16.04.2021, 132kV Khandong-Khleihriat(PG) DC lines, 132 kV Khleihrait(MePTCL)-Mustem, 132 kV Khleihriat(PG) Lines, 132 kV Khleihrait(PG) Substation, Khleihriat(PG) and NEIGRIHMS areas of Meghalaya Power System and Leska Power station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. | 132kV Khandong-Khleihriat(PG) D/C lines, 132 kV Khleihriat(PG) D/C Mustern, 132 kV Khleihriat(MPFICL)- Lumshnong, 132 kV Khleihriat- NEIGRIHMS & 132 kV NEIGRIHMS NEHU line | |
| 11 | GD 1 | Yiangangpokpi area of Manipur Power System | 19-Apr-21 16:52 | 19-Apr-21 16:59 | 0:07:00 | 0 | 24 | 0.0 | 0.0 | 1691 | 1957 | Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(MSPCL) - Yiangangpokpi DC Lines. 132 kV Thoubal-Kakching Line was kept open for system requirement. At 16:52 Hrs on 19.04.2021, Imphal(MSPCL) - Yiangangpokpi DC Lines tripped. Due to tripping of these elements. Yiangangpokpi area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area. | 132 kV Imphal(MSPCL) - Yiangangpokpi D/C Lines | |
| 12 | GD 1 | Along area of Arunachal Pradesh Power System | 23-Apr-21 15:32 | 23-Apr-21 16:02 | 0:30:00 | 0 | 12 | 0.0 | 0.0 | 1255 | 2159 | Along area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Daporijo-Along line. At 15:32 Hrs on 23.04.2021, Daporijo-Along line tripped. Due to tripping of this element, Along area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area. | 132 kV Daporijo-Along line | |
| 13 | GD 1 | Dikshi HEP and Khupi area of Arunachal Pradesh Power System | 25-Apr-21 03:36 | 25-Apr-21 04:00 | 0:24:00 | 3 | 17 | 0.0 | 0.0 | 997 | 1837 | Dikshi HEP and Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 03:36 Hrs on 25:04.2021, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Dikshi HEP and Khupi area of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area. | 132 kV Balipara-Tenga Line | |
| 14 | GD 1 | Dikshi HEP and Khupi area of Arunachal Pradesh Power System | 27-Apr-21 11:49 | 27-Apr-21 12:19 | 0:30:00 | 3 | 16 | 0.0 | 0.0 | 1135 | 2137 | Dikshi HEP and Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 11:49 Hrs on 27.04.2021, 132 kV Balipara - Tenga line & 132 kV Tenga-Khupi T/L tripped. Due to tripping of this element. Dikshi HEP and Khupi area of Arunachal Pradesh Power System were separate from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area. | 132 kV Balipara - Tenga line | |
| 15 | GD 1 | Rokhia area of Tripura Power System | 30-Apr-21 16:15 | 30-Apr-21 16:38 | 0:23:00 | 55 | 16 | 0.0 | 0.0 | 1515 | 2049 | Rokhia area of Tripura Power System was connected with the rest of NER Grid through 132 kV Agartal - Rokhia D/C Lines and 132 kV Monarchak - Rokhia Line. At 16:15 Hrs on 30.04.2021, 132 kV Agartala - Rokhia D/C Lines and 132 kV Monarchak - Rokhia Line tripped. Due to tripping of these elements, Rokhia area of Tripura Power System was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area. | 132 kV Agartala - Rokhia D/C Lines 132 kV Monarchak - Rokhia Line Rokhia Unit 7 Rokhia Unit 8 Rokhia Unit 9 | |
| 16 | GI 2 | Tripura Power System | 01-Apr-21 10:42 | 01-Apr-21 12:30 | 1:48:00 | 317 | 0 | 0.3 | 0.0 | 1091 | 1555 | Palatana Unit 1 & 2 tripped at 10:42 hours on 01-04-21 due to Loss of Flame. Revision done from Block No. 51 on 01-04-21 | Palatana unit 1 & 2 | |

| | Details of Grid Events during the Month of April 2021 in North Eastern Region Cutegers of Grid | | | | | | | | | | | | | | |
|--------|--|----------------------|-----------------------------|---------------------------------|------------------------|--------------------------|---|-------------------------------------|---|----------------------------------|--------------------------------------|--|--|--|--|
| | Category of Grid Event | | Time and Date of | | | Loss of gene during t | ration / loss of load the Grid Event | % Loss of generat Antecedent Gen | ion / loss of load w.r.t eration/Load in the | Antecedent Ge Reg | eneration/Load in the rional Grid | 0800 | | | |
| Sl No. | (GI 1or 2/ GD-1 to GD-5) | Affected Area | occurrence of Grid Event | Time and Date of Restoration | Duration (HH:MM:SS) | Generation Loss(MW) | Load Loss (MW) | % Generation Loss(MW) | % Load Loss (MW) | Antecedent Generation (MW) | Antecedent Load (MW) | Brief details of the event (pre fault and post fault system conditions) Elements Tripped | | | |
| 17 | GI 2 | Assam Power System | 18-Apr-21 06:42 | 18-Apr-21 07:30 | 0:48:00 | 317 | 0 | 0.3 | 0.0 | 1204 | 1546 | BgTPP Unit 2 tripped at 06:42 hours on 18-04-21 due to Low Vacuum in Turbine Condenser. Revision done from Block No. 31 on 18-04-21 | | | |
| 18 | GI 1 | Tripura Power System | 18-Apr-21 10:42 | 18-Apr-21 12:30 | 1:48:00 | 25 | 0 | 0.0 | 0.0 | 882 | 1583 | AGTCCPP Unit 4 tripped at 10:42 hours on 18-04-21 due to Control system malfunction. Revision done from Block No. 51 on 18-04-21 | | | |
| 19 | GI 1 | Tripura Power System | 21-Apr-21 07:39 | 21-Apr-21 09:00 | 1:21:00 | 30 | 0 | 0.0 | 0.0 | 1275 | 1866 | AGTCCPP Unit 4 tripped at 07:39 hours on 21-04-21 due to control system malfunction. Revision done from Block No. 37 on 21-04-21 | | | |
| 20 | GI 2 | Assam Power System | 22-Apr-21 00:15 | 22-Apr-21 01:52 | 1:37:00 | 59 | 0 | 0.1 | 0.0 | 827 | 1854 | AGBPP Unit 1 & Unit 3 tripped at 00:15 hours on 22-04-21 due to LBB Operation. Revision done from Block No. 09 on 22-04-21. | | | |
| 21 | GI 2 | Assam Power System | 23-Apr-21 23:15 | 24-Apr-21 00:50 | 1:35:00 | 9 | 0 | 0.0 | 0.0 | 1008 | 2062 | AGBPP Unit 8 tripped at 23:15 hours on 23-04-21 due to Problem in Boiler CEP. Revision done from Block No. 05 on 24-04-21. | | | |
| 22 | GI 2 | Assam Power System | 24-Apr-21 12:28 | 24-Apr-21 14:00 | 1:32:00 | 128 | 0 | 0.2 | 0.0 | 812 | 1991 | BGTPP Unit 3 tripped at 12:28 hours on 24-04-21 due to Problem in Boiler CEP. Revision done from Block No. 57 on 24-04-21. | | | |
| 23 | GI 1 | Tripura Power System | 26-Apr-21 19:12 | 26-Apr-21 21:00 | 1:48:00 | 19 | 0 | 0.0 | 0.0 | 2227 | 2845 | AGTCCPP Unit 3 tripped at 19:12 hours on 26-04-21 due to stator earth fault. Revision done from Block No. 85 on 26-04-21. AGTCCPP unit 3 | | | |