Details of Grid Events during the Month of May 2021 in Northern Region

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SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence	Time and Date of	Duration (HH:MM)	Loss of gene during t	ration / loss of load the Grid Event	% Loss of generation Antecedent Genera Regional Grid durin	tion/Load in the	Antecedent Generat Regional C	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)		
1	GD-1	HIMACHAL PRADESH	04-May-2021 03:49	04-May-2021 08:05	4:16	37	0	0.110	0.000	33631	45599	400 KV Nathpa Jhakri(S)-Garcham Wangtoo()SW) (HBPCL) Ckt. 1, 400 KV Nathpa Jhakri(S))-Panchiula(PG) (PG) Ckt. 1, 400 KV Nathpa Jhakri(S))-Panchiula(PG) (PG) Ckt. 1 at Ckt. 2 and 400 KV Nathpa Jhakri(S))-Gumma (HP) (PG) Ckt. 2 all tripped on Bus Bar protection operation. Some problem in Bus Bar 2 Ct winting lead to Bus Bar Protection operation (Bus2). At the same time, 37MW Sawara Audub UNIT-1 HPPC. 3 bis tripped on \$55 operation. As per PMU. 1 Yet place to earth fault is observed. In artice-cleent condition, 00 KV Nathpa Jhakri(S)-Farchiam Wangtoo()SW) (HBPCL) Ckt. 1, 400 KV Nathpa Jhakri(S)-Parchiam (PG) (PG) (Ckt. 2 Carrying 192MW, 10MW, 117MW, 117MW, 37MW respectively.	11 400KV Bus 2 at Nathpa Jhakri[S] 21 400KV Bus 4 at Nathpa Jhakri[S] 31 400KV Nathpa Jhakri[S] + Sarchan Wangtoo(JSW) (HBPCL) Cit-1 41 400 KV Nathpa Jhakri[S] + Parchitusi[PG] (PG) Cit-1 51 400 KV Nathpa Jhakri[S] + Pampur HEP[S] (PG) Cit-2 61 400 KV Nathpa Jhakri[S] + Pampur HEP[S] (PG) Cit-1 74 400 KV Nathpa Jhakri[S] + Pampur HEP[S] (PG) Cit-1 74 400 KV Nathpa Jhakri[S] + Pampur HEP[S] (PG) Cit-1 81 400/22 kV 25 MVA ST 1 at Nathpa Jhakri[S].
2	GD-1	J & K	04-May-2021 09:40	04-May-2021 13:32	3:52	0	180	0.000	0.376	38924	47913	220 KV Kishenpur[PG]-Sama[PS] [PG] Cit-1 & Cit-2 both tripped on R-YN Double phase to ground fault. Fault distance was \$8.32 km from Kishenpur[PG] end and fault current was It 2.33 kA ky 1.74 kA. As per PMU, R-Y phase to phase fault to observed. As per CAOAL local locs of algonor. 180MW is observed. In antecedent condition, 220 KV Kishenpur[PG]-Sama[PS] (PG] Cit-1 & Cit-2 carrying 76MW each.	1) 220 KV Kishenpur(PG)-Sarna(PS) (PG) Ckt-1 2) 220 KV Kishenpur(PG)-Sarna(PS) (PG) Ckt-2
3	GI-2	UTTAR PRADESH	06-May-2021 17:34	06-May-2021 22:10	4:36	0	0	0.000	0.000	31375	38192	800 KV Mundnagar. 2-Mathura (UP) Ckt-1 tripped on B-N phase to earth fault. Line successfully autoreclosed from Mundnagar. 2 end but tripped from Mathura end. Fault distance was 132.1km and fault current was 2-591kA from Mathura end. At the same time. 400/2012 VA 40 MAV ICT 3 at Mundnagar. 2(IV) Prisped on over flux protection operation and 125 MVAR Bus Reactor No 1 at 4001V Agar Fatchbabd(IV) Prisped on backup impedance protection operation. As per PMUL 8-Phylane to earth fault is observed. In A per SCADA, Bus votage & frequency at Mundnagar. 2(IV) Pvss approx. 430 VV and 50Ht so, VIV would be approx. 1 OB. In antecedent condition, 400 KV Mundnagar. 2-Mathura (UP) Ckt-1 & 400/220 KV 240 MVA ICT 3 at Mundnagar. 2(IV) carrying 15MW & 26MW respectively.	1) 400/220 kV 240 MVA ICT 3 at Muradnagar_2(UP) 2) 125 MVAR Bus Reactor No 1 at 400KV Agra Fatehbad(UP) 3) 400 KV Muradnagar_2-Mathura (UP) CXt-1
4	GI-2	UTTAR PRADESH	07-May-2021 16:13	07-May-2021 17:29	1:16	0	0	0.000	0.000	35155	40970	800 KV Anpara-Obra, § (UP) Ckt-1 tripped on R-N phase to earth fault. Fault occurred due to damage of R-ph insulator of wave trap. Fault distance was 0.32km from Anpara end. At the same time, 400 KV Anpara-Sarnath (UP) Ckt-1 tripped from both end and 600 KV Singauliff(Y-hapara[V]) P(G) Ckt-1 tripped from Anpara end only. A per PMU, R4 phase to earth fault is observed. In antecedent condition, 400 KV Anpara-Obra § (UP) Ckt-1, 400 KV Anpara-Sarnath (UP) Ckt-1 & 400 KV Anpara-Sarnath (UP) Ckt-1 & 400 KV Singauliff(Y-hapara-Grey E) (UR) KV Anpara-Sarnath (UP) Ckt-1 & 400 KV Anpara-Sarnath (UP) Ckt-1 & 400 KV Singauliff(Y-hapara-Grey E) (UR) KV Anpara-Sarnath (UP) Ckt-1 & 400 KV Singauliff(Y-hapara-Grey E) (UR) KV Anpara-Sarnath (UP) Ckt-1 & 400 KV Singauliff(Y-hapara-Grey E) (UR) KV Anpara-Sarnath (UP) Ckt-1 & 400	2) 400 KV Anpara-Samath (UP) Ckt-1
5	GI-2	RAJASTHAN	07-May-2021 19:22	08-May-2021 00:51	5:29	0	0	0.000	0.000	38108	47011	765 KV Phagi[RS]-Gwallor[PG] [PG] Ckt 2 & 765 KV Anta-Phagi [RS] Ckt 2 both tripped on B-N phase to earth fault. Fault occurred due to B-ph CT at 707 Tie bby at 765KV Phagi[RS] blast. As per PMU, B-N phase to earth fault is observed. In antecedent condition, 765 KV Phagi[RS]-Gwallor[PG] (PG) Ckt 2 & 765 KV Anta-Phagi [RS] Ckt 2 carrying 579MW & 820MW respectively.	1) 765 KV Phagi(RS)-Gwallor(PC) (PG) Ckt-2 2) 765 KV Anta-Phagi (RS) Ckt-2
6	GD-1	J & K	09-May-2021 21:10	09-May-2021 22:10	1:00	0	60	0.000	0.132	36058	45401	220 KV Amargarh (NRSS XXXX)-Ziankotel, IX (PDD IX) Ckt-1 & Ckt-2 both tripped on R-Y phase to phase fault. Fault current was 1.481kA from Zainkote end. As per PMU, no fault is observed. As per SCADA, load loss of approx. 50MW is observed. In antecedent condition, 220 KV Amargarh (NRSS XXXX)-Ziankote(IX) (PDD IX) Ckt-1 & Ckt-2 carrying approx. 175MW each.	1) 220 KV Amargarh(NRSS XXIX)-Ziankote(IK) (PDD JK) Ckt-1 2) 220 KV Amargarh(NRSS XXIX)-Ziankote(IK) (PDD JK) Ckt-2
7	GI-2	UTTAR PRADESH	10-May-2021 21:34	10-May-2021 23:48	2:14	0	0	0.000	0.000	36958	49268	IDD IX Oral[PG]-Oral[UP] [PG] Cit-1 tripped on B-N phase to earth fault. At the same time, 400 FX Oral[PG]-Oral[UP] [PG] Cit-2 also tripped on R-N phase to earth fault. As per PMU, R-N phase to earth fault followed by B-N phase to earth fault is observed. In attractedent condition, 400 FX Oral[PG]-Oral[UP] [PG] Cit-1 8-400 FX Oral[PG]-Oral[UP] [PG] Cit-2 carrying approx. 220MW each.	1) 400 KV Orai(PG)-Orai(UP) (PG) Ckt-1 2) 400 KV Orai(PG)-Orai(UP) (PG) Ckt-2
8	GI-2	PUNJAB	11-May-2021 01:58	11-May-2021 02:29	0:31	0	0	0.000	0.000	33063	44558	400 RV Ludhiana-Malerkotta (PG) Ckt-1 tripped on Y-N phase to earth fault during bad weather. Fault distance was 4.34km & fault current was 16.4kk from Malerkotta end. Line successfully autoreclosed from Ludhiana end but tripped from Malerkotta end. At the same time, 400/220 kv 315 M/N KT 2 at Malerkottal PG) also tripped due to differential protection operation. As per PMU, Y-N plass to earth fault is observed. In antecedent condition, 400 KV Ludhiana-Malerkotta (PG) Ckt-1 & 400/220 kV 315 M/N KT 2 at Malerkotta(PG) Carrying 104M/W & 48MW respectively.	1) 400 KV Ludhiana-Malerkotta (PG) Ckt-1 2) 400/220 kV 315 MVA ICT 2 at Malerkotta(PG)
9	GI-2	UTTAR PRADESH	12-May-2021 18:52	00-Jan-1900 00:00	#VALUE!	0	0	0.000	0.000	30987	38556	IBOD KV Barellly-Unnao (UP) Clk-1 & 400 KV Barellly-Unnao (UP) Clk-2 both tripped on R-Y-8-M three phase to earth fault. Fault occurred due to to double circuit tower no 458 & 57 of Unnao Ck-1 and Ck+2 collapsed during heavy thorderstorm. Ape PMU, R-Y-8-M throabestorm. Ape PMU, R-Y-8-M throabestor oxidification, 400 KV Barellly-Unnao (UP) Ckt-1 & 400 KV Barellly-Unnao (UP) Ckt-2 carrying 111MW & 109MW respectively.	1) 400 KV Bareilly-Unnao (UP) Cxt-1 2) 400 KV Bareilly-Unnao (UP) Cxt-2
10	GI-2	PUNJAB	14-May-2021 08:40	14-May-2021 09:44	1:04	0	0	0.000	0.000	34976	42277	IBO RV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Ckt-1 & 400 RV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Ckt-2 both tripped on YA phase to earth fault. 400 RV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Ckt-2 ws in under shutdown, during its changing atternity from Muktsar(PG) end YA phase to earth fault occurred in 600 RV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Ckt-1 Ckt-1 & Ckt-2 tripped. 400 RV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Ckt-1 tripped in Z- 2. Ape PPML, YA phase to earth fault is observed. In antecedent condition, 400 RV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Ckt-1 carrying 1994W.	1) 400 KV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Cit-1 2) 400 KV Talwandi Saboo(PSG)-Muktsar(PS) (PS) Cit-2
11	GD-1	HIMACHAL PRADESH	14-May-2021 19:46	14-May-2021 21:40	1:54	55	0	0.157	0.000	34949	44469	3324V Jasure-Batheri Ckt tripped at 19:46 Hrs. At the same time, 220kV Bus 2 at Pong(88), 220kV Jessore(HP)-Pong(88) (PG) Ckt-1, 220kV Jalandhar-Pong (88) Ckt-2 and 220kV Pong(88)-Dasuya(PS) (88M8) Ckt-2 all tripped on LB8 operation of 56MkW bull at Pong HP (88M8), Ape PMkJ. + Hybase to earth fault with delayed clearance in 500ms is observed, in attecedent conflow, 220kV Jessore(HP)-Pong(88) (PG) Ckt-2, 220kV Jalandhar-9 (88) Ckt-2 at 10 Ckt-2 at	1) 220 KV Pong(BB)-Dasuya(PS) (BBMB) Ckt 2 2) 220 KV Jalandhar-Pong (BB) Ckt 2 3) 220 KV Jessore(HP)-Pong(BB) (PG) Ckt-1 4) 220KV Bus 2 at Pong(BB)
12	GD-1	HARYANA	17-May-2021 22:35	17-May-2021 23:30	0:55	0	300	0.000	0.590	39548	50880	220 DV JindjPG)-Ramsana (PV) (PVPNL) CR: 1.8 CR: 2.20 EV Batta (HR) -MARWANA (HV) (PVPNL) CRT. 1.8 CR: 2.20 EV Batta (HR) -MARWANA (HV) (PVPNL) CRT. 1.8 CR: 2.20 EV Batta (HR) -MARWANA (HV) (PVPNL) CRT. 1.8 CR: 2.20 EV Batta (HR) -MARWANA (HV) (PVPNL) CRT. 1.8 CR: 2.20 EV BATTA (HR) -MARWANA (HV) A (HV) EV BATTA (HR) EV BA	1) 220 KV Jind(PG)-Narwana (HV) (HVPNL) Ckt-1 2) 220 KV Jind(PG)-Narwana (HV) (HVPNL) Ckt-2
13	GD-1	PUNJAB	19-May-2021 20:40	19-May-2021 22:10	1:30	0	100	0.000	0.331	27234	30166	220 KV Malerkottal/PSi-Malerkottal/PSi (PSTCL) Ck-2, 400/220 kV 315 MVA ICT 2 & 400/220 kV 500 MVA ICT 3 at Malerkottal/PSi all tripped on bus bar protection operation at Malerkotal/PSi end. Bus bar protection operated on B-N phase to earth fault in 2200K Malerkotal/PSi-Noblan/PSi ckt. As per PMU, B-N phase to earth fault is observed. As per SCDAD, load loss of poprox. 100MW is observed. In antecedent condition, 400/220 kV 315 MVA ICT 2 & 400/220 kV 500 MVA ICT 3 at Malerkotal/PSi carrying 63MW & 99MW respectively.	1) 400/220 kV 500 MVA ICT 3 at Malerkotta(PG) 2) 220 kV Malerkotta(PS)-Malerkotta(PG) (PSTCL) Ckt-2

Details of Grid Events during the Month of May 2021 in Northern Region

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SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence	Time and Date of	Duration		ration / loss of load he Grid Event	% Loss of generation Antecedent Genera Regional Grid durin	tion/Load in the	Antecedent Generati Regional (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	GD-1	HIMACHAL PRADESH	20-May-2021 23:42	21-May-2021 02:46	3:04	77	0	0.283	0.000	27234	30166	220 KV Chamera 3[NH]-Chamba[PG] (PG] Ckt-2 & 220 KV Chamera 3[NH]-Budhil(LB) (LB) Ckt-1 tripped on YN phase to earth fault. Fault distance was 38 38km from Budhil end and 13km from Chamba end. As per PMU, YN phase to earth fault is observed. As per SCADA, generation loss of approx. 77MW is Observed at Chamera 3[NH]. In antecedent condition, 220 KV Chamera 3[NH]-Chamba[PG] (PG) Ckt-2 carrying 20MW.	1) 220 KV Chamera, 3(NH)-Chamba(PG) (PG) Ckt-2 2) 220 KV Chamera, 3(NH)-Budhil(LB) (LB) Ckt-1
15	GI-2	RAJASTHAN	21-May-2021 22:32	21-May-2021 23:37	1:05	0	0	0.000	0.000	32480	42610	400 KV Bikaner(PG)-Bikaner(RS) (PG) Ckt-1 tripped only from Bikaner(RS) end due to problem in autorecloser. At the same time, 400 KV Bikaner(PG)-Bikaner RENEW Solar(RENEW) (Benew Power) Ckt-1 tripped on transient fault. As per PAUL R-K phase to earth fault is observed. In antecedent condition, 400 KV Bikaner(PG)-Bikaner(RS) (PG) Ckt-1 carrying 200MW.	1) 400 KV Bikaner(PG)-Bikaner(RS) (PG) Ckt-1 2) 400 KV Bikaner(PG)-Bikaner RENEW Solar(RENEW) (Renew Power) Ckt-1
16	GD-1	UTTAR PRADESH	22-May-2021 05:09	23-May-2021 00:05	18:56	340	0	1.339	0.000	25386	31943	210 MW Anpara TPS - UNIT 1, UNIT 2 & UNIT 3 all tripped on tripping of cooling water pump. As per PMU, no fault is observed. In antecedent condition, 210 MW Anpara TPS - UNIT 1, UNIT 2 & UNIT 3 carrying 106MW, 100MW & 108MW respectively.	1) 210 MW Anpara TPS - UNIT 2 2) 210 MW Anpara TPS - UNIT 1 3) 210 MW Anpara TPS - UNIT 3
17	GD-1	J & K	22-May-2021 20:11	22-May-2021 23:53	3:42	0	550	0.000	1.246	33615	44125	220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 & Ckt-2 and 220 KV Amargarh(NRSS XXXIX)-Ziankote(JK) (PDD JK) Ckt-1 & Ckt-2 all tripped on R-N phase to earth fault. Fault distance was 28.6km and fault current was 3.514Å from Wagoora(PG) end. Noe PPMUJR. R-N plact to earth fault with delayed clearance in 400ms is observed. As per SCADA, load loss of approx. S50MW is observed in J&K control area.	1) 220 KV Amargarh (NRSS XXXI)-Ziankote(JK) (PDD JK) Ckt-1 2) 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 3) 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-2 4) 220 KV Amargarh (NRSS XXXI)-Ziankote(JK) (PDD JK) Ckt-2
18	GI-1	RAJASTHAN	22-May-2021 21:03	22-May-2021 23:01	1:58	0	0	0.000	0.000	32793	44038	220 KV Bhadis[PG]-Bhadis Solar[Adani) (Adani) Ckt-1 & Ckt-2 both tripped on 8-N phase to earth fault. As per PMU, 8-N phase to earth fault is observed. In antecedent condition, 220 KV Bhadis[PG]-Bhadis Solar[Adani] (Adani) Ckt-1 & Ckt-2 carrying (NMW each.	1) 220 KV Bhadla(PG)-Bhadla Solar(Adani) (Adani) Ckt-2 2) 220 KV Bhadla(PG)-Bhadla Solar(Adani) (Adani) Ckt-1
19	GD-1	HIMACHAL PRADESH	22-May-2021 21:24	22-May-2021 22:20	0:56	230	0	0.712	0.000	32296	43361	400 KV Gumma (HP)-Panchkula PG (PG) Ckt-1 & 400 KV Nathpa Jhakri(SJ)-Gumma (HP) (PG) Ckt-2 both tripped on R-N phase to earth fault. Both the lines didn't trip from Gumma end and tripped from Nathpa Jhakri(SJ) & Panchkula PG and only in 2.7. Earlie distance was 110 km from Panchkula PG on Celeyled Celescence of fault to Sobreved due to resistive nature of fault. 250MW Nathpa Jhakri HPS Lose (HD). 3 & 68.67MW Rampur HPD LINT-3 also tripped on SPS operation at Nathpa Jhakri HPS. Sup PULN, R-N plase to earlier fault with delayed clearance in 130ms to soberned. As per SCADA, generation loss of approx. 190MW of Nathpa Jhakri HPS & 40MW of Rampur HPS is observed. In antecedent condition, 400 KV Rumma (HPP)-Panchkula PG (PG) Ckt-1 & 400 KV Nathpa Jhakri(SJ)-Gumma (HP) (PG) Ckt-2 carrying 326MW & 289MW respectively.	1) 400 KV Gumma (HP)-Panchkulu PG) [PG] Ckt-1 2) 400 KV Nathpa Jhakri(SJ)-Gumma (HP) [PG] Ckt-2
20	GI-2	RAJASTHAN	23-May-2021 02:06	23-May-2021 07:48	5:42	0	0	0.000	0.000	29162	39758	400 KV Kankani-Jaisalmer (RS) Ckt-2 tripped on Y-N phase to earth fault. Fault distance was 36.5km (2-1) from Jaisalmer end and 105.5km (2-1) from Kankani end. Fault current was Z.89kA from Kankani end. At the same time, 400 KV Akai-Kankani (RS) Ckt Tipped from Akai end only without any indication. Aper PMU X-Y phase to earth fault is observed. In antecedent condition, 400 KV Kankani-Jaisalmer (RS) Ckt-2 & 400 KV Akai-Kankani (RS) Ckt-1 carrying 1477MV & 1077MV respective).	1) 400 KV Akal-Kankani (RS) Ckt-1 2) 400 KV Kankani-Jaisalmer (RS) Ckt-2
21	GD-1	UTTAR PRADESH	24-May-2021 17:20	24-May-2021 18:55	1:35	138	0	0.449	0.000	30714	39176	800 RV Alaknanda GVK[UPC]-Muzaffamagar (UP) Ckt-1 & 400 KV Alaknanda GVK[UPC] Vishnuproyagi[P] (UP) Ckt-1 both tripped at 17:20 Hrs on Y-N phase to earth fault with delayed clearance in 560ms. At 17:36 Hrs, 400 RV Alaknanda GVK[UPC]-Srinagar(US) (UK) Ckt-1 & Ckt-2 and 22 RV Sringell Bintwarf[singe](ICTUPF)-Srinagar(UK) [PTCU] Ckt-1 & Ckt-2 and 12 RV Sringell Bintwarf[singe](ICTUPF)-Srinagar(UK) [PTCU] Ckt-1 & Ckt-2 and 12 RV Sringell Bintwarf[singe](ICTUPF)-Srinagar(UK) [PTCU] Ckt-1 & State Sringell Ckt-2 Sringell RV Sringell Sringell RV Sringell Sringell RV Sring	1) 400 KV Alaknanda GVK(UPC)-Muzalfarnagar (UP) Ckt-1 2) 400 KV Alaknanda GVK(UPC)-Wishnuprayag(IP) (UP) Ckt-1 3) 220 KV Singoli lishatwari/Singoli(IUTMP)-Srinagar(IK) (PTCUL) Ckt-2 4) 220 KV Singoli lishatwari/Singoli(IUTMP)-Srinagar(IK) (PTCUL) Ckt-1 5) 400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 6) 400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1
22	GD-1	PUNJAB	25-May-2021 12:57	25-May-2021 20:40	7:43	0	125	0.000	0.293	31535	42642	220 KV Ganguwal(88)-Gobindgarh(P5) (88) Ckt-2 tripped on R-Y phase to phase fault. Fault was in 2-1 with distance of 41.5m from Gobindgarh end. At the same time, 220 KV Ganguwal(88)-Bhar(P5) (88) Ckt-1 tripped on Y-6 phase to phase fault, fault distance was 52.5 km from Bhari end. As per PMU, R-Y phase to phase fault tollowed by Y-8 phase to phase fault tollowed—As per SZAOL, bod loss of approx. 257MW is observed. In antecedent condition. Compared to the Compared Compared (SC) Ganguwal(88)-Gobindgarh(P5) (88) Ckt-2 & 220 KV Ganguwal(88)-Bharl(P5) (88) Ckt-1 carrying approx. 57MW each.	1) 220 KV Ganguwal(88)-Gobindgarh(P5) (88) Ckt-2 2) 220 KV Ganguwal(88)-Bhar(P5) (88) Ckt-1
23	GD-1	1 & K	27-May-2021 14:38	27-May-2021 16:54	2:16	0	500	0.000	1.075	33072	46492	220 KV Wagoora PG- Ziankote JK (PDD JK Ckt-1 & Ckt-2 and 220KV Amargan NRSS XXXX -Ziankote JK (UNDEF) Ckt-1 & Ckt-2 and 120KV Amargan NRSS XXXX -Ziankote JK (UNDEF) Ckt-1 & Ckt-2 and 120KV Amargan NRSS XXXX -Ziankote JK (UNDEF) Ckt-1 & Ckt-2 and 120KV Amargan NRSS XXXX -Ziankote JK (UNDEF) ckt-1 & Ckt-2 and 120	1) 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 2) 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-2 3) 220KV Wagoora(PGS-Ziankote(JK) (WDNGF) Ckt-1 4) 220KV Amargarh(NRSS XXXI)-Ziankote(JK) (WDNGF) Ckt-2
24	GI-2	RAJASTHAN	30-May-2021 16:07	30-May-2021 17:05	0:58	0	0	0.000	0.000	35400	44245	765 KV Bhadla-Bikaner (PG) Ckt-2 tripped from Bhadla end only, due to pole discrepancy operated at Bikaner 717 tie bay of Bhadlas 2 line and DT sent to Bhadla end. Line remained charged from Bikaner end. At the same time, 400 KV Bikaner (PG) Bikaner (PG) Bikaner (PG) Pikaner (P	1) 400 KV Bikaner(PG)-Bikaner(BS) (PG) Ckt-1 2) 765 KV Bihadila-Bikaner (PG) Ckt-2
25	GI-2	HARYANA	30-May-2021 16:51	30-May-2021 20:39	3:48	0	0	0.000	0.000	34371	42867	400 KV Gurgaon/PG)-Daulatabad(HV) (HV) Ckt-1 & Ckt-2 both tripped in reclaim time after successful A/R operation on B N phase to earth fault. Fault distance was 4.6km & fault current was 11kA from Daulatabad end. As per PMU, B-N phase to earth fault is observed.	1) 400 KV Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-1 2) 400 KV Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-2
26	GI-2	PUNJAB	31-May-2021 18:10	01-Jun-2021 15:26	21:16	0	0	0.000	0.000	34752	44365	BIO RV Muktsar-Makhu (PS) Ckt-1 tripped on R·N phase to earth fault during fault reclaim time after successful A/R operation, fault distance was 7.08 km (2-1, 74.28) 8 ft bault current was 3.25Az from Muktsar end. At the same time, 400 KV Muktsar-Makh (15) Ckt-2 freiged on the Palpase to earth fault during fault reclaim time after successful A/R operation, fault distance was 0.25 km (2-1,65%) & fault current was 3.57Az from Muktsar end. As per PMU, R·N phase to earth fault followed by 8 hy Plants to earth fault followed:	1) 400 KV Muktsar-Makhu (PS) Ckt-1 2) 400 KV Muktsar-Makhu (PS) Ckt-2

Details of Grid Events during the Month of May 2021 in Western Region



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SI No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	load durir	ration / loss of ng the Grid vent	load w.r.t	eration / loss of Antecedent /Load in the id during the Event	Antecedent Genera the Regional		Brief details of the event (pre fault and post fault system conditions) Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)		Even			Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	
1	GI-1	WR	01-May-21 08:51	01-May-21 09:25	0:34	-	-	-	-	60965	49795	At 08:51 Hrs/01-05-21, B phase LA of 220 kV Padghe line blasted at Nashik substation and resulted in tripping of all the elements connected to 220 kV Bus. Tripping of 1.220 kV Nashik-Navsari 1&2 2.220 kV Nashik-Padghe 3.220 kV Nashik-Raymond 4.220/132 kV Nashik ICTs 3,4&5
2	GD-1	WR	03-May-21 15:45	03-May-21 16:14	0:29	222	279	0.34%	0.52%	64581	53836	Tripping of 1.220 kV Uran-Apta 1,2,3&4 At 15:45 Hrs/03-05-21, 220 kV Apta 4 line Y phase insulator flashover occurred at Uran ss and resulted 2.220 kV Uran-Apta 1,2,3&4 in tripping of all the elements connected to 220 kV Bus 1&2 on Busbar protection operation. 3.220 kV Uran-INPT 4.220 kV Uran-ONGC 5.Uran Units 5,8& WRPH B0
3	GD-1	WR	07-May-21 17:37	07-May-21 18:58	1:21	135	-	0.23%	-	59498	50986	At 18:58 Hrs/07-05-21, 220 kV Bhuj-Vadva tripped on 86 A&B relay operation at Bhuj end. Due to the loss of evacuation path, there was a generation loss of 135 MW
4	GD-1	WR	07-May-21 09:01	07-May-21 09:43	0:42	-	250	-	0.48%	59182	52060	At 09:01 Hrs/07-05-21, 220 kV Amona-Ponda 1,2& 3 tripped on R-E fault resulted in supply failure at 220 kV Ponda Bus 2. While restoring, 220 kV Amona-Ponda 1 at 09:28 Hrs, R phase PT of 220 kV Bus 2 failed and at the same time 220 kV Mapusa-Ponda tripped on Y-B fault. With the tripping of all the 220 kV Ines, there was a load loss of 250 MW
5	GD-1	WR	08-May-21 16:15	08-May-21 18:46	2:31	180	-	0.29%	-	61481	54760	At 16:15 Hrs/08-05-21, 220 kV Bhuj-Gadhsisa tripped on R-E fault. There was a generation loss of 180 Tripping of MW due to the loss of evacuation path.
6	GD-1	WR	08-May-21 17:44	08-May-21 18:58	1:14	33	-	0.06%	-	58359	50024	At 17:44 Hrs/08-05-21, 220 kV Bhuj-Dayapar 2 tripped on R-E fault. There was a generation loss of 33 Tripping of 1.220 kV Bhuj-Dayapar 2
7	GI-2	WR	09-May-21 03:14	09-May-21 17:05	13:51	-	-	-	-	59179	48744	At 03:14 Hrs/09-05-21, Rph CT of 400 kV Itarsi(PG) 2 failed at Indore(MP) and caught fire. Due to fire spread to nearby area and created R phase fault, 400 kV Indore(MP) Bus 2 and all the connected elements tripped on Bus bar protection operation. At 03:22 Hrs, 400 kV Indore-Itarsi 1 tripped on Reactor PRV trip protection at Indore(MP) end and 400 kV Indore-(MP)-Indore(PG) 1 on Over Voltage protection operation. At 03:14 Hrs/09-05-21, Rph CT of 400 kV Indore-(MP) indor
8	GD-1	WR	09-May-21 22:03	09-May-21 23:55	1:52	90	-	0.16%	-	57187	46815	At 22:03 Hrs/09-05-21, 220 kV Bhuj-Gadhsisa tripped on B-E fault. There was a generation loss of 90 MW due to the loss of evacuation path.
9	GD-1	WR	09-May-21 19:51	09-May-21 21:01	1:10	-	300	-	0.67%	55879	44731	At 19:07 Hrs/09-05-21, 400 kV Raita-Jagdalpur line tripped on R-E fault. 400 kV Kurud-Jagdalpur line was in open condition since 07.05.2021 due to high voltage. Jagdalpur load was being met through Tripping of 220 kV from Kurud. At 19:51 Hrs, 400 kV Kurud- Raita line auto reclosed on B-E fault through main bay 1.400 kV Raita-Jagdalpur only at Kurud end. Tie bay didn't auto reclose leading to tripping of 315 MVA 400/220 kV ICT-1 & 2 2.400 kV Raita-Kurud (ICTs were in dia of 400 kV Raita-Kurud line) at Kurud. This led to supply failure at 400 kV Kurud and Jagdalpur.

Details of Grid Events during the Month of May 2021 in Western Region



Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	load durir	ration / loss of ng the Grid rent	load w.r.t Generation Regional Gr	eration / loss of Antecedent /Load in the id during the Event	Antecedent Genera the Regional		Brief details of the event (pre fault and post fault system conditions) Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	
10	GD-1	WR	10-May-21 10:45	11-May-21 13:40	2:55	68	-	0.11%	-	59970	51677	At 10:45 Hrs/10-05-21, 220 kV Bhuj-Vadva tripped on 86 A&B relay operation at Bhuj end due to B Tripping of phase SF6 gas Zone relay Auxillary contact issue in Compartment -07 . Due to the loss of evacuation 1.220 kV Bhuj-Vadva path, there was a generation loss of 68 MW
11	GI-2	WR	12-May-21 23:55	13-May-21 00:28	0:33	-	-	-	-	60664	50364	At 23:55 Hrs/12-05-21, all 400kV elements connected to Bus-1 at Indore MP tripped due to mal operation of LBB protection of 400kV Indore-ISP line-2. 400kV Indore-Itarsi line-2 and 400kV Indore (PG)-Indore line-2 were already out of service since 09:05:2021. 400kV Bus-2 at Indore(MP) is being out since 03:16hrs/09.05.2021 (Bus bar protection operated due to bursting of R-ph CT of 400 kV Indore-Itarsi PG-2 at Indore MP). Tripping of 1.400 kV Indore(MP)- Asoj 1&2 2.400 kV Indore-Itarsi Ind
12	GD-1	WR	14-May-21 18:23	14-May-21 19:40	1:17	-	220	-	0.48%	54748	45999	At 18:23 Hrs/14-05-21, Due to heavy wind and rains in Goa 220 kV Amona-Ponda 1&3, 220 kV mapusa 1 2.20 kV Mapusa - Ponda Ponda, 220 kV Ponda-Xeldem and 220 kV Ambewadi-Xeldem tripped on R phase- B phase fault. 220 kV 2.220 kV Amona-Ponda 1&3 3.220 kV Ambewadi-Xeldem 4.220 kV Ponda-Xeldem 4.220 kV Ponda-Xeldem
13	GI-1	WR	16-May-21 06:48	16-May-21 07:11	0:23	-	80	-	0.17%	56757	45794	At 06:48 Hrs/16.05.21, 220kV Amona-Ponda-1 tripped due to B phase LA failure at Amona (Goa) end. Tripping of Load loss of around 60 MW occurred in the above event. Prior to the event at 04:18 hrs/16.05.21, 220 L220 kV Amona-Ponda 1,2&3 KV Amona-Ponda-2, 220 KV Amona-Ponda-3 and 220kV Mahalaxmi-Amona tripped on over voltage. Heavy wind and rain were reported during the event.
14	GI-1	WR	16-May-21 07:19	16-May-21 07:30	0:11	-	40	-	0.09%	56431	45532	At 07:19 Hrs/16.05.21, During Y-B fault on 110 kV Tivim-Kadamba all three 220/110 kV 100 MVA ICTs at Tivim tripped on Backup Over current protection operation. Heavy wind and rain were reported during the event
15	GD-1	WR	16-May-21 20:31	16-May-21 21:20	0:49	-	19	-	0.05%	53280	38226	At 20:31 Hrs/16-05-21, R phase PT of 132 kV bus blasted at 220/132 kV Nagda(MP) substation which resulted in tripping of all the 132 kV lines connected at Nagda s/s from remote end. At the same time 220 kV BB protection mal operated for external fault and resulted in tripping of 220 kV elemnts connected to 220 kV Nagda Bus. Tripping of 1.20 kV Nagda Main Bus 3.20/132 kV Nagda ICTs 1,2&3 4.132 kV lines at Nagda s/s
16	GD-1	WR	18-May-21 06:45	18-May-21 07:32	0:47	190	-	0.36%	-	52667	37970	At 06:45 Hrs/18-05-21, 220 kV Bachhau-Bhuvad 18.2 tripped on over frequency protection operation at Bhuvad end. The grid frequency was less than 50.2 Hz, but the relays operated on H/f. The Over frequency protection was enabled temporarily to trip the wind generation in case of high frequency during Tautkae cyclone. The tripping was mainly due to non-introduction of delay for over frequency tripping. Due to the loss of evacuation path, there was a generation loss of 190 MW.
17	GD-1	WR	20-May-21 05:09	20-May-21 05:15	0:06	-	130	-	0.33%	45525	38916	At 05:09 Hrs/20-05-21, 220 kV Mapusa-Ponda and 220 kV Mapusa-Amona tripped on Y-E fault. At the same time, 220 kV Manona-Ponda 1&3 tripped at Amona end only on Virbout any relay indication. 220 kV Mapusa-Amona Mahalakshmi-Amona also tripped at Amona end only on Over Volatge protection operation. With the tripping of all the incoming lines, Ponda s/s became dark. Prior to the event, 220 kV Amona-Ponda 3.220 kV Mahalakshmi-Amona was kept opened from Amona end for Voltage control.

Details of Grid Events during the Month of May 2021 in Western Region



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Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	load duri	ration / loss of ng the Grid vent	% Loss of gene load w.r.t A Generation/ Regional Gri Grid I	Antecedent Load in the d during the	Antecedent General the Regional (Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
18	GI-2	WR	29-May-21 13:54	29-May-21 15:39	1:45	-			-	59719	52214	At 13:54 Hrs/29-05-21, 765 kV Indore-Khandwa 1 tripped on Y-B fault. At the same time 765 kV Indore- Bus 2 and all the main bays connected tripped on Busbar protection operation. As the 765 kV Indore- Vadodara is in the same dia of 765 kV Indore-Khandwa 1, it also tripped.	Tripping of 1.765 kV Indore Bus 2 2.765 kV Indore-Vadodara 3.765 kV Indore-Khandwa 1
19	GI-1	WR	29-May-21 14:02	29-May-21 14:05	0:03	-	100	-	0.19%	59692	52885	At 14:02 Hrs/29-05-21, 220 kV Ponda-Xeldem tripped on Y-E fault due to the snapping of Earth wire between tower location 244-248. At the same time 220/110 kV Ponda ICTs 1&2 tripped. As reported by Goa, there was a load loss of 100 MW	

Details of Grid Events during the Month of May 2021 in Eastern Region



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Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid	Time and Date of Restoration	Duration (HH:MM	Loss of gene of load duri Eve	ng the Grid	of load w.r. Generation Regional Gr	eneration / loss t Antecedent n/Load in the rid during the Event	Antecedent Gener the Regiona		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1 or 2/ GD-1 to GD-5)		Z.C.M.		,	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	Dumka	15-05-2021 12:01	15-05-2021 12:50	00:49	0	185	0.00%	1.00%	22080	18465	Due to tower collapse of 220 kV Farakka-Lalmatia S/C in April 2021, local load at 220 kV Dumka and Godda S/S were being radially fed from 400/220 kV Maithon S/S through 220 kV Maithon-Dumka D/C and 220 kV Dumka-Godda D/C. Shutdown of 220 kV Maithon Dumka – 1 was taken by JUSNL at 10:51 hrs to attend rectify red hot at connector of R. phase pole of circuit breaker of the line. Hence load at Dumka was fed through 220 kV Maithon Dumka – 2. At 12:02 hrs 220 kV Maithon Dumka – 2 tripped on R phase to earth fault resulting in total power failure at Goda, Dumka S/S and nearby areas.	220 kV Maithon Dumka - 1
2	GD-1	Bodhgaya	17-05-2021 23:06	17-05-2021 23:46	00:40	0	150	0.00%	0.67%	26406	22404	On 17-05-2021, 220 kV Gaya-Bodhgaya-1 & 2 tripped at 23:06 hrs from Gaya end only. At that moment, all 220/132 KV ICTs at Bodhgaya also tripped, causing load loss of 150 MW at Chandauti, Sherghati, Imamganj, Rafiganj Traction & Bodhgaya. 220 KV Bodhgaya-Khijasarai D/C was hand-tripped from Bodhgaya end.	220 kV Gaya Bodhgaya D/C 220/132 kV ICTs at Bodhgaya
3	GD-1	Sonenagar	20-05-2021 03:41	20-05-2021 04:23	00:42	0	92	0.00%	0.44%	22357	20839	220 kV Chandauti-Sonenagar D/C tripped at 03:41 hrs on 20th May 2021 from Chandauti end. This has led to total power failure at 220/132 kV Sonenagar (BSPTCL) and radially connected 132 kV substations. At the same time 132 kV Sonenagar – Japla S/C also got tripped. The power restored at 04:23 hrs by extending power from 400/220 kV Chandauti through 220kV-Chandauti (PMTL)-Sonenagar-1.	220 kV Chandauti-Sonenagar D/C 132 kV Sonenagar – Japla S/C
4	GD-1	Joda	23-05-2021 10:17	23-05-2021 11:07	00:50	0	100	0.00%	0.54%	20750	18520	On 23-05-2021 at 10:15 Hrs, all 220 kV feeders connected to 220/132 kV loda 5/S got tripped due to operation of bus bar protection. This has resulted in total power failure at 220/132 kV Joda and 220 kV TSIL 5/S and loss of 100 MW load. After investigation, it was found that Y-phase CT of 220 kV Joda—TSIL feeder blasted at 104 and. The power at Joda substation was restored at 11:07 Hrs. by extending power from 220 kV JSPL substation through 220 kV Joda-JSPL Line.	220 kV Joda – TTPS - 1 220 kV Ramchandrapur – Joda S/C 220 kV Joda – ISPL S/C 220 kV Joda TISL S/C 132 kV Joda – Kendposi S/C
5	GD-1	Jasidih	27-05-2021 10:13	27-05-2021 10:32	00:19	0	30	0.00%	0.25%	19999	11979	On 26-05-2021 and 27-05-2021, demand in Jharkhand system was low because of thunderstorm and heavy rainfall caused by Cyclone Yaas and subsequent depression. As a result, high voltage has been observed at various parts of JUSNL network. At 03:32 hrs of 27th may 2021, 220 kV Dumka-Jasidih D/C were hand tripped at Dumka end because of overvoltage. 132 kV Dumka-Dumka D/C and 132 kV Dumka-Deoghar were in service thus avoided power failure. Charging of 202 kV Dumka-Jasidih – 1 was attempted at 03:51 hrs and 07:01 hrs however it wasn't successful. Finally, it was charged at 09:50 hrs. At 10:13 hrs, 220 kV Dumka Jasidih – 1 from Dumka end due to operation of overvoltage stage 1. With this 132 kV Dumka – Dumka D/C and 132 kV Dumka – Deoghar D/C also got tripped. This has led to loss of supply at 220/132 kV Jasidih and 132 kV Dumka substation.	220 kV Dumka-Jasidih-D/C 132 kV Dumka - Dumka D/C 132 kV Dumka - Deeghar D/C 220 kV Dumka-Jasidih-1
6	GD-1	Khagaria	27-05-2021 23:22	28-05-2021 00:50	01:28	0	5	0.00%	0.03%	24880	14900	220 kV Khagaria 5/5 is radially connected to New Purnea 5/5 through 220 kV Khagaria-New Purnea-2. On 27- 05-2021, demand in Bihar was low because of thunderstorm and heavy rainfall due to depression caused by Cyclone Ya	220 KV Khagaria-New Purnea-2
7	GD-1	Rengali	28-05-2021 07:45	28-05-2021 13:12	05:27	0	0	0.00%	0.00%	21534	13667	On 28-05-2021 at 07-45 hrs, due to CVT failure of 220 kV Rengali-TSTPP S/C at Rengali end, all 220 kV lines connected to 220 kV Rengali (OPTCL) S/S and 220 kV Rengali PH got tripped. Y phase jumper snapping of 220 kV Rengali-Rengali – 2 at 220 kV Rengali (OPTCL) Bus A was also reported at the same time. The event has led to total power supply failure at 220 kV Rengali Hydropower station and 220 kV Rengali (OPTCL) S/s.	

Details of Grid Events during the Month of May 2021 in Southern Region



	Category of					Loss of gener	ation / loss of	% Loss of gene	ration / loss of	Antecedent Generati	on/Load in the		~~~~
Sl No.	Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	load during the	Load Loss	load w.r.t	% Load Loss	Regional (Antecedent	Brief details of the event (pre fault and post fault system conditions)	Name of Elements (Tripped/Manually opened)
1	GD-1 to GD-5)	(Karnataka	02-May-21 09:23	02-May-21 10:05	42mins	Loss(MW)	(MW) 0	0.00	(MW)	Generation (MW)	Load (MW) 42684	Complete Outage of 220kV/33kV KSPDCL SS no-4 (Pavagada) of KSPDCL on 02-05-2021: During antecedent conditions, all elements were connected to Bus-1 at 220kV KSPDCL SS no-4 due to prolonged outage of Bus-2 because of Bus PT failure issue. Triggering incident was fault in 33kV cable no.11 (KREDL) of 220kV/33kV KSPDCL SS no-4. Earth fault protection and Over current protection operated and line got tripped. Immediately, 220kV Bus-1 BBP maloperated resulting in the tripping of all the elements connected at 220kV KSPDCL SS no-4. This resulted in complete outage of 220kV KSPDCL SS no-4. It may be noted that 220kV KSPDCL SS no-4. This resulted in complete outage of 220kV KSPDCL SS no-4.	
2	GD-1	Tamil Nadu	04-May-21 11:01	04-May-21 11:26	25 mins	0	180	0.00	0.00	41738	47407	Complete Outage of 230kV SP koil of TANTRANSCO: Triggering incident was 8-N fault in Omega-SP Koil line at 10:29hrs. At both the ends, fault was sensed in zone-1. A/R operated and line tripped on persistent fault. This led to increase in flow of 230kV SP Koil-Kanchipuram and 230kV SP Koil-Carpadam-A xt 11:01hrs, 230kV Oragadam-SP Koil line tripped on R-N fault which led to further increase in flow of 230kV SP Koil-Kanchipuram line, owing to which 230kV SP Koil-Kalpakkam line-1 and 2 were hand tripped at 11:20 Hrs. Also the 110kV lines connected to SP Koil tripped due to over current at remote ends. At 11:20hrs, 230kV Kanchipuram-SP koil tripped on R-N fault. This led to complete outage of 230kV SP Koil SS of TANTRANSCO.	3. 230kV SP Koil-Oragadam
3	GD-1	Kerala	06-May-21 16:49	06-May-21 17:20	31 mins	36	82	0.00	0.00	35007	43546	Complete Outage of 220kV Edappon of KSEB: During antecedent conditions, 220kV Edappon Kayamkulam line was under outage form 15-04-2021. Because of this 220kV Edappon SS was radially fed from 220kV Edmon SS. Triggering incident was R-V-N fault in the 220kV Edamon Edappon line due to heavy rain and lightening. Zone-1 protection operated and line got tripped. Since Edappon SS is radially fed from Edamon SS, this resulted in complete outage of 220kV Edappon SS.	1.220kV Edamon Edappon Line
4	GD-1	Karnataka	07-May-21 09:44	07-May-21 09:48	4min	46	104	0.00	0.00	41333	46225	Complete Outage of 220kV Ambewadi SS of KPTCL and 110kV Supa PH of KPCL: During antecedent conditions, 220kV Ambewadi SS was radially fed from 220kV Naghjeri PH through only one line (220kV Ambewadi Naghjeri line-1). Triggering incident was R8N fault in 220kV Ambewadi Naghjeri line-1 at a distance of 18km from Naghjeri end and 10km from Ambewadi end. Suspected transient fault in the line due to rain. Line tripped on operation of Zone-1 distance protection at both the ends. Due to the tripping of only connected source line, there was complete loss of supply at 220kV Ambewadi SS. It was reported that the running unit (U1) tripped on operation of over frequency protection at 110kV Supa Generating Station.	1. 220kV Ambewadi Naghjeri line-1
5	GD-1	Karnataka	10-May-21 21:09	10-May-21 21:44	35mins	0	496	0.00	0.01	31599	40555	Multiple Tripping in 400kV/ 220kV Nelamangala SS and Complete outage of 220kV Magadi SS, 220kV Anchepalya SS, 220kV Brindavan SS, 220kV NRS, 220kV Peenya SS and 220kV DB Pura: Triggering incident was failure of Y ph CVT of bus-2 at 220kV Nelamangala SS. Bus 2 BBP operated and all the connected elements got tripped. At the same time, Bus-1 BBP also operated due to isolator status problem at Nelamangala end. This resulted in de-energisation of 220kV bus of 400kV/220kV Nelamangala SS and there was complete loss of supply at 220kV Magadi SS, 220kV Anchepalya SS, 220kV Brindavan SS, 220kV NRS, 220kV Peenya SS and 220kV DB Pura ss that were radially fed from Nelamangala SS	6.220 kV Puttenahalli Nelamangala 7.220 kV DB pura Nelamangala-1
6	GD-1	Karnataka	10-May-21 13:01	10-May-21 13:18	17mins	620	117	0.02	0.00	40598	44974	Complete outage of 220kV Nagheri PH and 110kV Supa PH of KPCL and 220kV Ambewadi SS of KPTCL: During antecedent conditions, Nagheri Kodsalli Line-12, Nagheri Hubli Line-12, Nagheri Ambewadi Line-2 were under outage. Triggering incident was tripping of Nagheri Hubli Line-3 due to line to ground fault at 13:01hrs. At 13:02hrs Nagheri Hubli Line-2 tripped on line to ground fault at 13:01hrs. At 13:02hrs Nagheri Hubli Line-2 tripped on line to ground fault. Because of this, Nagheri Bidnal line got overloaded & tripped on Over-current protection at Nagheri Power House end. This resulted in loss of evacuation at 220kV Nagheri PH. Running Units 1,2,3 and 6 got tripped on operation of over frequency 4th stage. Since 220kV Ambewadi SS was radially fed from 220kV Nagheri Pd uning antecedent conditions, this further resulted in complete loss of supply at 220kV Ambewadi Ss was radially fed from 22kV Nagheri Pd uning antecedent conditions, this further resulted in complete loss of supply at 220kV Ambewadi S. pd. 12km 22km 22km 22km 22km 22km 22km 22km	2.220kV Nagjheri Hubli ine-3 3.220kV Nagjheri Bidnal 4. 220kV Nagjheri Ambewadi Line-1
7	GD-1	Tamil Nadu	13-May-21 17:04	13-May-21 18:45	1hr 41mins	20	0	0.00	0.00	29939	36579	Complete outage of 290K Mytrah Wind Station: As per the report submitted, triggering incident was R phase jumper cut in 290K Mytrah-TIGS line 2 near TISG. At ITGS end, fault was sensed in Zone-1, Autorectope (Ap) operated and line tripped due to persistent fault. Due to tripping of the only connected line, there was complete outage of 230kV Mytrah Wind Station and loss in wind generation of around 200M was reported during this event. At the same time, 400/230kV TIGS ICT-1 got tripped on operation of Bucholz protection and the same needs review.	1.230kV Mytrah-TTGS 2 2. 400/230kV TTGS ICT-1
8	GD-1	Kerala	15-May-21 19:13	15-May-21 19:24	11mins	50	283	0.00	0.01	28394	34903	Complete Outage of 220kV Ambalathara, 220kV Orkattery SS, 220kV Kanhirode, 220kV Mylatty SS, and 220kV Taliparamba SS: During antecedent conditions, 220kV Thaliparamba SS, 220kV Ambalathara SS and 220kV Mylatty SS, were fed from 220kV Kanhirode SS. Triggering incident was 8 phase jumper opening in 220kV Areakode Orkattery line near Areakode SS. 220kV Areakode Orkattery line near Areakode SS. 220kV Areakode Christery line near Areakode sS. 220kV Areakode Christery line protection. But on on-operation of DEF protection at Orkattery end, fault was cleared by tripping of 220kV Kanhirode Areakode line at Kanhirode end on operation of DEF protection. Due to tripping of both incoming lines, there was complete loss of supply at 220kV Kanhirode SS and 220kV Orkattery SS. Since 220kV Thaliparamba, 220kV Mylatty and 220kV Ambalathara were fed from 220kV Kanhirode SS. This further resulted in complete loss of supply at 220kV Ambalathara SS.	1.220KV Kanhirode Ambalathara 2.220KV Areacode Kanhirode 3.220KV Orikatery Kanhirode 4.220KV Anhirode Thalipparamba 5.220KV Ambalathara Mylatty
9	GD-1	Telangana	15-05-2021 🛮 5:46	15-May-21 18:31	2hrs 45mins	0	0	0.00	0.00	33419	34725	Complete Outage of 400kt/J220kV Sundila SS of TSTRANSCO: Triggering incident was B-N fault in 400kV Sundila Singareni Line-1. At the same time, 400kV Nirmal Sundila Line-1 tripped on operation of over voltage at Sundila end adnd DT was received at Nirmal end. Simultaneouly, 400/220kV Sundila CT-3 get tripped on suspected maloperation. Since other lines and ICTs were out during antecedent, this resulted complete outage of 400kV/220kV Sundila SS.	1.400KV Sundila Singareni Line-1
10	GD-1	Telangana	15-05-2021 188:44	15-May-21 21:04	2hr 20mins	0	0	0.00	0.00	28314	33728	Complete Outage of 400kt/J220kV Sundila SS of TSTRANSCO: Triggering incident was tripping of 400kV Nirmal Sundila Line-1 on operation of over voltage at Sundila end and DT was received from Nirmal end . Since other lines and ICTs were out during antecedent, this resulted complete outage of 400kt/J220kV Sundila SS.	
11	GD-1	Andhra Pradesh	28-May-21 00:06	28-May-21 00:21	15mins	0	95	0.00	0.00	33863	34789	Complete Outage of 220kV Sulurpet SS of APTRANSCO: Triggering incident was failure of Y-phase CT of 220kV Nellore Sulurpet Line-2 at Sulurpet end resulting in Bus-1 fault at 220kV Sulurpet SS. At Sulurpet end, 220kV bus bar protection was out of service and hence fault was cleared by the tripping of all the connected lines at remote end. This resulted in complete outage of 220kV Sulurpet SS. It may be noted that 220kV Sulurpet SS has single bus configuration.	2. 220kV Sulurpet Nellore-1

Details of Grid Events during the Month of May 2021 in Southern Region



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SI No.	Category of Grid Event (GI 1or 2/	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	load during the		load w.r.t	Antecedent % Load Loss	Antecedent Generati Regional C	Grid Antecedent	Brief details of the event (pre fault and post fault system conditions)	Name of Elements (Tripped/Manually opened)
12	GD-1 to GD-5)	Andhra Pradesh	28-May-21 06:10	28-May-21 07:20	1hr 10mins	Loss(MW)	(MW)	0.00	(MW) 0.00	Generation (MW) 29803	34547	Complete Outage of 220kV Lower Sileru PH of APGENCO: As per the report submitted, triggering incident was suspected LBB maloperation of UBZ resulting in the tripping of 220kV bus-2 connected elements at 220kV Lower Sileru PH . At the same time, 220kV Bus-1 connected elements also got tripped. This resulted in the complete outage of 220kV Lower Sileru PH of APGENCO. There was no senerarion at Lover Sileru pH with sevent. Details are awanted.	1.220kV KTPS V- Lower Sileru-2
13	GI-2	Karnataka	01-May-21 16:54	01-May-21 20:35	4hrs 21min	0	0	0.00	0.00	31622	39209	Tripping of 400kV Bus-2 of 400kV/220kV Guttur SS of KPTCL: Triggering incident was operation of Bus-2 BBP at 400kV Guttur end due	2.400 kV Guttur - Narendra 2 3.400 kV Guttur - Hiriyur 2
14	GI-1	Telangana	04-May-21 17:08	04-May-21 18:06	58mins	0	0	0.00	0.00	34190	41609	Tripping of 220kV Bus-1 of 400kV/220kV Gajwel SS of TSTRANSCO: LBB protection of 220kV Gajwel – Minpur line-1 operated at 220kV Gajwel end resulting in the tripping of all the elements connected to Bus-1 during YN fault in 132kV Energon solar feeder.	1.400/220kV (TCT 3 3.100MVA PTR-1 4.160MVA PTR-2 5.220KV Gajwel Minpur-1 6.220KV Gajwel Kondapaka 7.220KV Gajwel Kondapaka 8.220kV Gajwel Kakaram-1
15	GI-1	Tamil Nadu	28-May-21 09:47	28-May-21 10:56	1hr 9mins	0	452	0.00	0.01	36450	3/881	Tripping of 110kV Bus of 400/220/110kV Kanarpatty SS of TANTRANSCO: Triggering incident was failure of support insulator on LV side isolator of 400/110kV ICT-5. This resulted in earth fault and led to tripping of LV side breaker of ICT-5. Subsequently, 400/110kV ICT-3 and 400/110kV ICT-4 got tripped due to overload protection. This resulted in deengerisation of 110kV bus of 400/220/110kV Kanarpatty SS.	2.400/110kV ICT-4

Details of Grid Events during the Month of May 2021 in North Eastern Region



	Category of Grid Event		Time and Date of	Time and Date of	Duration		ation / loss of load ne Grid Event		tion / loss of load w.r.t eration/Load in the		neration/Load in the ional Grid		Aosoco
SI No.	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Restoration	(HH:MM:SS)	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
1	GD-I	Rokhia area of Tripura Power System	01-May-21 02:42	01/May/21 03:01	0:19:00	85	16	0.0	0.0	1914	1993	Rokhia area of Tripura Power System was connected with the rest of NER Grid through 132 kV Agartala Rokhia DC Lines and 132 kV Monarchak - Rokhia Line At 02:42 Hrs on 01:05:2021, 132 kV Agartala - Rokhia DC 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 Agartila - Rokhia D.C Lines 132 kV Monarchak - Rokhia Line Rokha Unit 7 Rokhia Unit 8 Rokhia Unit 9 Monarchak STG
2	GD-I	Along area of Arunachal Pradesh Power System	01/May/21 19:43	01/May/21 20:41	0:58:00	0	19	0.0	0.0	2309	2115	Along area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Daporijo-Along line . At 19-43 Hrs on 01 05 2021, 132 kV 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 available in this area.	132 kV Daporijo-Along line
3	GD-I	Mustem & Mawlyndep area of Meghalaya Power System	02/May/21 14:30	02/May/21 15:09	0:39:00	0	23	0.0	0.0	1493	2047	Mustem & Mawlyndep area of Meghalaya Power System were connected with the rest of NER Grid through 132 kV Khlehiral-Mustem line & 132 kV Mawlyndep-NEHU line. 132 kV Mustem-Khlehiral ine tripped at 14:03 hrs on 02.05 2021. At 14:30 Hrs on 02.05 2021, 132 kV Mawlyndep-Mustem line tripped causing blackout at Mustem S. Again, at 14:37 Hrs, 132 kV Mawlyndep-NEHU line tripped leading to blackout at Mawlyndep-St. Due tripping of these elements, Mustem & Mawlyndep area of Meghalaya Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kv Mustem-Khleihriat line 132 kv Mawlyndep-Mustem line 132 kv Mawlyndep-NEHU line
4	GD-I	Dhaligaon, Gossaigaon and part of Bornagar area of Assam Power System	04/May/21 01:51	04/May/21 02:07	0:16:00	0	24	0.0	0.0	1746	1245	Dhaligaon, , Gossaigaon and part of Bornagar area of Assam Power System were connected with the rest of NER Grid through 132 kV BTPS Dhaligaon DtC line. 132 kV Dhaligaon-Nalbari line and 132 kV Ganssaigan-Gamripur line was kept open due to system constraint by AEGCL. Also, at 132 kV Barnagar SS, bus was in splitting condition(40 & 25 MVA ICT feeding power from Dhaligaon side and 25 MVA ICT feeding power from Barnagia side) At 01.51 Hrs on 04-05-2021, 132 kV BTPS(AS)-Dhaligaon DC line tripped. Due to tripping of these clements Dhaligaon, Gossaigaon and Bornagar(partial) areas of Assam Power System were seperated from the rest of the NER grid and subsequently collapsed due to no source available in these areas.	132 kV BTPS-Dhaligaon D/C lines
5	GD-I	Lumshnong Area of Meghalaya Power System	06/May/21 04:41	06/May/21 05:06	0:25:00	0	26	0.0	0.0	1493	1228	Lumshnong Area of Meghalaya Power System was connected to the rest of NER grid through 132 kV Lumshnong - Panchgram line & 132 kV Khlichriat(MePTCL) - Lumshnong line. At 04-41 lirs of 06.05.2021, 132 kV Lumshnong - Panchgram line & 132 kV Khlichriat(MePTCL) - Lumshnong line tripped. Due to tripping of these elements, Lumshnong area of Meghalaya Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Lumshnong - Panchgram line 132 kV Khliehriat(MePTCL) - Lumshnong line
6	GD-I	Lumshnong Area of Meghalaya Power System	12/May/21 05:21	12/May/21 05:32	0:11:00	0	18	0.0	0.0	1839	1587	Lumshnong Area of Meghalaya Power System was connected to the rest of NER girld through 132 kV Lumshnong - Panchgram line & 132 kV Khilehriat(MePTCL) - Lumshnong line. At 05:21 hrs of 12.05.2021, 132 kV Lumshnong, Panchgram line & 132 kV Khilehriat(MePTCL) - Lumshnong line tripped. Due to tripping of these elements, Lumshnong Area of Meghalaya Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Lumshnong - Panchgram line 132 kV Khlichriat(McPTCL) - Lumshnong line
7	GD-I	Mustern and Mawlyndep areas of Meghalaya Power System	12/May/21 13:56	12/May/21 14:07	0:11:00	0	26	0.0	0.0	1793	1853	Mustern and Mawlyndep areas of Meghalaya Power System was connected with the rest of NER Grid through 12 kV Mawlyndep - NEHU line and 132 kV Khleiriat (MePTCL) - Mustern line. At 13:56 Hrs on 12.05.2021, 132 kV Mawlyndep - NEHU line and 132 kV Khleiriat (MePTCL) - Mustern line tripped. Due to tripping of these elements, Mustern and Mawlyndep area of Meghalaya Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	1.32 kV Mawhyndep - Nehu 1.32 kV Khleiriat - Mustern lines
8	GD-I	Capital area of Arunachal Pradesh Power System	12/May/21 18:57	12/May/21 19:28	0:31:00	0	49	0.0	0.0	2436	2442	Capital area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Itanagar (Chimpu)-Lekhi line, 132 kV Pare-Lekhi line, 132 kV Itanagar (Chimpu)-Pare line, 132 kV Itanagar (Chimpu)-Ranganadi line and 132 kV BNC(PG) - Itanagar (Chimpu) Ital lines (132 kV Itanagar (Chimpu)-Ital lines (132 kV Itanagar (Chimpu)-Ranganadi line, 132 kV Itanagar (Chimpu)-Ranganadi lines tripped. Due to tripping of these elements, Capital area of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in this area.	132 kV Itanagar (Chimpu)-Lekhi line 132 kV Pare - Lekhi line 132 kV Itanagar (Chimpu)-Pare line 132 kV Itanagar (Chimpu)-Ranganadi line 132 kV BNC(PG) - Itanagar (Chimpu) I & II

Details of Grid Events during the Month of May 2021 in North Eastern Region

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SI No.	Category of Grid Event		Time and Date of	Time and Date of	-t D -:	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			808000
	(GI 1or 2/ GD-1 to GD-5)	or 2/ Affected Area	occurrence of Grid Event	Time and Date of Restoration		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
9	GD-I	Mawlai and Mawngap areas of Meghalaya Power System and UMIAM I & UMIAM II Generating Stations	15/May/21 13:39	15/May/21 13:50	0:11:00	18	80	0.0	0.0	(MW)	1845	Mawlai and Mawngap areas of Meghalaya Power System and UMIAM I & UMIAM II Generating Stations were connected with the rest of NER Grid through 132 kV Umiam III-Umiam ID CI lines, 132kV Umiam Uniam line, 132 kV Mawlain-EMUII inca and 132 kV Neogstoin-Mawngap line. At 13:39 Hrs, 132 kV Umiam III-Umiam ID CI lines, 132kV Umiam I-Umiam line, 132 kV Mawlain-EMUI line and 132 kV Nongstoin-Mawngap line tripped. Due to tripping of these elements, Mawlai and Mawngap areas of Meghalaya Power System and UMIAM I & UMIAM II Generating Stations were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	132 kV Umiam III-Umiam I DC lines 132 kV Mawkii-KEHU line 132kV Umiam Humiam line 132 kV Nongstein-Mawngap line 132 kV Nongstein-Mawngap line 132 kV Nongstein-Mawngap line 132 kV Nongstein-Khielhirat line New UMTRU U#1
10	GD-I	Leshka Generating Station of Meghalaya Power System	20/May/21 15:04	20/May/21 15:31	0:27:00	41	0	0.0	0.0	1932	1550	Leshka Generating Station of Meghalaya Power System was connected with the rest of NER Grid through 132 kV Leshka-Khileinriat(MePTCL) D/C lines. At 15:04 Hrs, Myndru Leshka - UNIT 1 & 2 and 132 kV Leshka-Khileinriat(MePTCL) D/C lines tripped. Due to tripping of these elements. Leshka Generating Station of Meghalaya Power System was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	Myndtu Leshka - UNIT 1 & 2 132 kV Leshka-Khlichriat(McPTCL) D.C lines
11	GD-I	Rokhia area of Tripura Power System	23/May/21 02:02	23/May/21 02:30	0:28:00	36	14	0.0	0.0	1914	1993	Rokhia area of Tripura Power System was connected with the rest of NER Grid through 132 kV Agartala Rokhia 1 Line and 132 kV Monarchak - Rokhia Line. 132 kV Agartala - Rokhia 2 Line was under shutdown due to damage in cross and structure since 0.005/2021. At 02:02 Hrs on 23:05:2021, 132 kV Agartala - Rokhia 1 Line 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 Agurtala - Rokhia I Lines 132 kV Monarchak - Rokhia Line Rokhia Unit 8 Rokhia Unit 9
12	GD-I	Gohpur, North Lakhimpur, Dhemaji and Majuli areas of Assam Power System and Nirjuli area of Arunachal Pradesh Power System	26/May/21 10:25	26/May/21 10:33	0:08:00	0	73	0.0	0.0	1574	2025	Gohpur, North Lakhimpur, Dhemaji and Majuli areas of Assam Power System and Nirjuli area of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Gophur-Pavoic(AS) II line and 132 kV Lekhi-Nirjuli line. 132 kV Gophur-Pavoic(AS) II line Line was under shutdown due to Tower Dismantling works. At 10:25 Hrs on 26.05.2021, 132 kV Gophur-Pavoi(AS) II line and 132 kV Lekhi-Nirjuli line tripped. Due to tripping of these elements, Gohpur, North Lakhimpur, Dhemaji and Majuli areas of Assam Power System and Nirjuli area of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Gophur-Pavoi(AS) II line 132 kV Lekhi-Nirjuli line
13	GD-I	North Lakhimpur, Dhemaji and Majuli areas of Assam Power System	26-May-21 21:34	26/May/21 21:38	0:04:00	0	60	0.0	0.0	2288	2504	North Lakhimpur, Dhemaji and Majiuli areas of Assam Power System were connected with the rest of NER Grid through 132 kV Gohpur. North Lakhimpur I & II lines. At 21:34 Hrs on 26:05:2021, 132 kV Gohpur-North Lakhimpur I & II lines tripped. Due to tripping of these elements, North Lakhimpur, Dhemaji and Majiuli areas of Assam Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Gohpur-North Lakhimpur I & II lines
14	GD-I	North Lakhimpur, Dhemaji and Majuli areas of Assam Power System	26/May/21 21:48	26/May/21 21:52	0:04:00	0	48	0.0	0.0	2265	2455	North Lakhimpur, Dhemaji and Majuli areas of Assam Power System were connected with the rest of NEB Grid through 132 kV Gohpur-North Lakhimpur 1 & II lines. At 21:48 Hrs on 26.05.2021, 132 kV Gohpur-North Lakhimpur 1 & II lines tripped. Due to tripping of these elements. North Lakhimpur, Dhemaji and Majuli areas of Assam Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Gohpur-North Lakhimpur I & II lines
15	GD-I	Along,Pasighat,Roing, Tezu & Namsai Areas of Arunachal Power System	27/May/21 07:12	27/May/21 08:01	0:49:00	0	13	0.0	0.0	1991	1988	Along, Psaighut, Roing, Tenu & Namsai Areas of Arunachal Power System was connected with the rest of NER Grid through 132 kV Daporijo-Along line. At 07:12 Hrs. on 27 05.2021, 132 kV Daporijo-Along line tripped. Due to tripping of this element, Along and radially commercted Pasighat, Roing, Tenu & Namsai area of Arunachal Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Daporijo-Along line
16	GD-I	Along,Pasighat,Roing, Tezu & Namsai Areas of Arunachal Power System	28/May/21 12:23	28/May/21 12:53	0:30:00	0	27	0.0	0.0	1975	2201	Along Pasighat, Roing, Tezu & Namsai Areas of Arunachal Power System was connected with the rest of NER Grid through 132 kV Daporijo-Along line. At 12:23 Hrs on 28.05.2021, 132 kV Daporijo-Along line tripped. Due to tripping of this element, Along and the radially commexted Pasighat, Roing, Tezu & Namsai areas of Arunachal Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.	132 kV Daporijo-Along line
17	GD-I	Rokhia Area of Tripura Power System	28/May/21 14:22	28/May/21 14:40	0:18:00	55	8	0.0	0.0	2160	2263	Rokhua Area of Tripura Power System was connected with the rest of NER Und through 152 kV Rokhua- Agrallal Line 1 and 132 kV Rokhia-Monarchak Line, 132 kV Agartala - Rokhia 2 line was under SrD due to damage to crossarm structure since 02.05.2.021 At 14:22 Hrs on 28.05.2021, 132 kV Rokhia - Monarchak line, 132 kV Rokhia- Agartala 1 line tripped. Due to triping of these adamses of NED Cold.	132 kV Rokhia - Monarchak line 132 kV Rokhia - Agartala 1 line Rokhia Unit 8 Rokhia Unit 9
18	GD-I	Khupi area of Arunachal Pradesh Power System	29/May/21 12:19	29/May/21 12:33	0:14:00	6	15	0.0	0.0	1771	2183	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 12:19 Hrs on 29:05:2021, 132 kV Balipara - Tenga Line, 132 kV Tenga- Khupi Line and Unit 3 of Dikshi HEP tripped. Due to tripping of this element, 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 132 kV Tenga- Khupi T/L

Details of Grid Events during the Month of May 2021 in North Eastern Region



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	Category of Grid		Time and Date of			Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t		Antecedent Generation/Load in the		l l	
SI No.	Event	Affected Area	occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	during the Grid Event		Antecedent Generation/Load in the		Regional Grid Antecedent		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)	Allected Area				Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Generation (MW)	Antecedent Load (MW)	DIREL OCEANS OF THE CHAIR SHALL POST FAULT SYSTEM CONDITIONS)	Elements Tripped
19	GD-I	Khupi area of Arunachal Pradesh Power System	30/May/21 13:36	30/May/21 13:58	0:22:00	5	14	0.0	0.0	1201	1548	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 13:36 Hrs on 30.05.2021, 132 kV Balipara - Tenga Line, 132 kV Tenga-Khupi Line and Unit 2 of Diskhi HEP tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	132 kV Balipara - Tenga line, 132 kV Tenga- Khupi T/L Dikshi HEP Unit 2
20	GD-I	Yiangangpokpi area of Manipur Power System	31/May/21 19:48	31/May/21 20:14	0:26:00	0	24	0.0	0.0	1689	2482	Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(MSPCL). Yiangangpokpi I line (132 kV Imphal(MSPCL). Yiangangpokpi 2 line was under outage from 19.6 his of 31-05-2021 and 132 kV Thoubal-Kakching Line was under shutdown). At 104/8 Hz or 21.05.2021 Imphal(MSPCL). Yiangangpokpi Ilina, I stringed. Para to tringing of this	132 kV Imphal(MSPCL) - Yiangangpokpi D/C lines
21	GD-I	Yiangangpokpi area of Manipur Power System	31/May/21 20:41	31/May/21 20:50	0:09:00	0	12	0.0	0.0	1670	2344	At 19-48 Hrs on 3 10.5.2011, ImplatIOMSPC1.1- Vianagangookpi line 1 tripped, Due to trippins of this yanagangookpi taze of Maniquer Tower System was consected with the 18-60 NPK Crital Broog if 32-K V ImphatI MSPC1.1- Vianagangookpi 1 line (132-K V ImphatI MSPC1.)- Vianagangookpi 2 line was under saturdoosing from 20-35 for sof 31-05-2021 and 132 K V Trombotk-lackking large was under shaturdoon). At 20-41 Hrs on 31.05.2021, ImphatIOMSPC1.2- Vianagangookpi line 1 tripped. Due to tripping of this contribution of the state of the stat	132 kV Imphal(MSPCL) - Yiangangpokpi D/C lines
22	GI 2	Tripura	04-May-21 12:40	04-May-21 14:00	1 hrs 20 mins	317	0	0.3	0.0	972	1815	Palatana Unit STG-2 & Palatana Unit GTG-2 tripped at 12:40 Hours on 04-05-21 due to tripping of GBC. Revision done from Block No. 57 on 04-05-21.	Palatana Unit GTG 2 and Palatana Unit STG 2
23	GI 2	Assam	14-May-21 04:13	14-May-21 06:00	1 hrs 47 mins	30	0	0.0	0.0	1252	1434	AGBPP Unit 5 tripped at 04:13 Hours on 14-05-21 due to low control oil presure. Revision done from Block No. 25 on 14-05-21.	AGBPP Unit 5
24	GI 2	Assam	15-May-21 04:34	15-May-21 06:00	1 hrs 26 mins	30	0	0.0	0.0	1261	1360	AGBPP Unit 5 tripped at 04:34 Hours on 15-05-21 due to low control oil presure. Revision done from Block No. 25 on 15-05-21.	AGBPP Unit 5
25	GI 2	Tripura	19-May-21 12:59	19-May-21 14:30	1 hrs 31 mins	312	0	0.2	0.0	1328	2073	Palatana Unit GTG2 and Palatana Unit STG 2 tripped at 12:59 Hours on 19-05-21 due to SPS-2 operation. Revision done from Block No. 59 on 19-05-21.	Palatana Unit GTG 2 and Palatana Unit STG 2
26	GI 2	Arunachal Pradesh	28-May-21 09:38	28-May-21 11:30	1 hrs 52 mins	154	0	0.1	0.0	1832	2276	Kameng unit 1 tripped due to GT overhead line differential protection at 09:38 Hours on 28-05-21 . Revision done from Block No. 47 on 28-05-21.	Kameng Unit 1
27	GI 2	Assam	31-May-21 04:18	31-May-21 06:00	1 hrs 42 mins	22	0	0.0	0.0	1316	1788	AGBPP Unit 8 tripped due to tripping of condenser extraction pump at 04:18 Hours on 31-05-21 . Revision done from Block No. 25 on 31-05-21.	AGBPP Unit 8
28	GI 2	Tripura	31-May-21 16:38	31-May-21 18:30	1 hrs 52 mins	323	0	0.2	0.0	1787	1732	Palatana GTG 2 & Palatana STG 2 tripped due to tripping of GBC 2 and high exhaust temperature at 16:38 Hours on 31-05-21 . Revision done from Block No. 75 on 31-05-21.	Palatana Unit GTG 2 and Palatana Unit STG 2