

Northern Region-Grid Event Report for August 2019

S.No.	Region	Name of Elements (Tripped/Manually opened)	Affected Area	Owner/ Agency	Outage		Revival		Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards	Energy Unserved (in MU)
					Date	Time	Date	Time						
1	NR	1) 500 MVA ICT 1 at 400/220kV Moradabad(UP) 2) 500 MVA ICT 2 at 400/220kV Moradabad(UP) 3) 240 MVA ICT 3 at 400/220kV Moradabad(UP) 4) 220kV Moradabad(UP)-Rampur(UP) 5) 220kV Moradabad(UP)-Amroha(UP) 6) 220kV Moradabad(UP)-Sambhal(UP) 7) 160 MVA ICT 1 at 220/132kV Moradabad(UP)	Uttar Pradesh	UP	2-Aug-19	13:03	2-Aug-19	13:51	00:48	500MVA ICT 1, 500MVA ICT 2 & 240MVA ICT 3 at 400/220kV Moradabad(UP) tripped due to wavetrap jumper snapped of 220kV Moradabad(UP)-Rampur(UP). As per PMU, B-N fault with delayed clearance is observed. In antecedent conditions, 500MVA ICT 1, 500MVA ICT 2 & 240MVA ICT 3 at 400/220kV Moradabad(UP) carrying 227MW, 232MW & 105MW respectively.	650	GD-1	0.52	
2	NR	1) 220kV Wagoora(PG)-Zainkote(JK) ckt-2 2) 220kV Amargarh(NR529)-Zainkote(JK)	Jammu & Kashmir	J&K, NR529 & POWERGRID	6-Aug-19	17:26	7-Aug-19	21:36	02:24	220kV Wagoora(PG)-Zainkote(JK) ckt-2 & 220kV Amargarh(NR529)-Zainkote(JK) tripped on R-N fault. As per PMU, R-N fault is observed in the system. In antecedent conditions, 220kV Wagoora(PG)-Zainkote(JK) ckt-2 carrying 59MW.	270	GD-1	7.56	
3	NR	1) 220kV Roorkee(PG)-Roorkee(UTT) 2) 315MVA ICT 1 at 400/220kV Roorkee(PG)	Uttarakhand	POWERGRID & Uttarakhand	7-Aug-19	13:27	7-Aug-19	15:06	01:39	220kV Roorkee(PG)-Roorkee(UTT) tripped on Y-N fault. At the same time, 315MVA ICT 1 at 400/220kV Roorkee(PG) tripped due to operation of differential Protection in Y phase. As per PMU, Y-N fault with no auto-reclosing is observed. In antecedent conditions, 220kV Roorkee(PG)-Roorkee(UTT) carrying 219MW.	200	GD-1	0.33	
4	NR	1) 220kV Bus 1 at 400/220kV Meerut(PG) 2) 315 MVA ICT 1 at 400/220kV Meerut(PG) 3) 315 MVA ICT 3 at 400/220kV Meerut(PG) 4) 220kV Meerut(PG)-Simbholi(UP) 5) 220kV Meerut(PG)-Nehtor(UP) 6) 220kV Meerut(PG)-Modipuram(UP) ckt-1	Uttar Pradesh	POWERGRID & UP	8-Aug-19	15:56	8-Aug-19	16:49	00:53	220kV Bus 1 at 400/220kV Meerut(PG) tripped due to suspected mal operation of LBB relay of 220kV Meerut(PG)-Nehtor(UP) line CB(211). As per PMU, No fault is observed in the system. In antecedent conditions, 220kV Meerut(PG)-Nehtor(UP), 315 MVA ICT 1 & ICT 3 at 400/220kV Meerut(PG) carrying 81MW, 119MW & 119MW respectively.			GI-2	
5	NR	1) 220kV Tanakpur(NHPC)-Sitarganj(PG) 2) 40MW Unit#1 at 220kV Tanakpur(NHPC) 3) 40MW Unit#2 at 220kV Tanakpur(NHPC) 4) 40MW Unit#3 at 220kV Tanakpur(NHPC)	Uttarakhand	NHPC & POWERGRID	9-Aug-19	10:19	13-Aug-19	16:38	04:33	220kV Tanakpur(NHPC)-Sitarganj(PG) tripped on earth fault. At the same time, 40MW Unit#1, #2 & #3 also tripped. Similar incident happen again at 1206Hrs, all three units were tripped immediately after charging of 220kV Tanakpur(NHPC)-Sitarganj(PG) due to Earth fault in Line. As per PMU, Fluctuations observed in the phase voltages.	40		GD-1	
6	NR	1) 315MVA ICT 1 at 400/220kV Kishenpur(PG) 2) 315MVA ICT 2 at 400/220kV Kishenpur(PG)	Jammu & Kashmir	POWERGRID	11-Aug-19	10:06	11-Aug-19	10:59	00:53	315MVA ICT 1 & ICT 2 at 400/220kV Kishenpur(PG) tripped on Backup over current Relay operation. As per PMU, R-N fault. In antecedent conditions, 315MVA ICT 1 & ICT 2 at 400/220kV Kishenpur(PG) carrying 207MW each.			GI-2	
7	NR	1) 315MVA ICT 1 at 400/220kV Bassi(PG) 2) 315MVA ICT 2 at 400/220kV Bassi(PG)	Rajasthan	POWERGRID	17-Aug-19	4:10	17-Aug-19	05:14	01:04	315MVA ICT 1 & ICT 2 at 400/220kV Bassi(PG) tripped on overfluxing. As per PMU, No fault is observed in the system. In antecedent conditions, 315MVA ICT 1 & ICT 2 at 400/220kV Bassi(PG) carrying 95MW each. 315MVA ICT 1 & ICT 2 again tripped on overfluxing at 0518Hrs & 0519Hrs of 18th August, 2019.			GI-2	
8	NR	1) 220kV Wazirabad(DTL)-Mandola(PG) ckt-1 2) 220kV Wazirabad(DTL)-Mandola(PG) ckt-3 3) 220kV Wazirabad(DTL)-Mandola(PG) ckt-4 4) 220kV Wazirabad(DTL)-Geeta Colony(DTL) ckt-1 5) 220kV Wazirabad(DTL)-Geeta Colony(DTL) ckt-2 6) 220kV Wazirabad(DTL)-Kashmiri Gate(DTL) ckt-1 7) 220kV Wazirabad(DTL)-Kashmiri Gate(DTL) ckt-2	Delhi	Delhi & POWERGRID	17-Aug-19	9:51	17-Aug-19	10:25	00:34	220kV Wazirabad(DTL)-Mandola(PG) ckt-2 was under planned shutdown and 220kV Wazirabad(DTL) - Gopalpur(DTL) ckt-1 & II was already Opened at Gopalpur end. Kite thread fallen on 220 kV bus, causing busbar protection operation at Wazirabad substation, resulted into tripping of all 220 kV lines (07 Nos.) and due to loss of connectivity 180 MW (as per Delhi SLD) load loss occurred at 220kV Wazirabad & 220kV Kashmiri Gate Sub-Station. As per PMU, R-B fault is observed. In antecedent conditions, 220kV Wazirabad(DTL)-Mandola(PG) ckt-1, 3 & 4 carrying 85MW, 87MW & 90MW respectively.	180		GD-1	0.10
9	NR	1) 400kV Azamgarh(UP)-Sarnath(UP) 2) 315MVA ICT 1 at 400/220kV Sarnath(UP)	Uttar Pradesh	UP	18-Aug-19	5:44	18-Aug-19	06:51	01:07	400kV Azamgarh(UP)-Sarnath(UP) tripped on Y-N fault, 82.3km from Azamgarh(UP) end. At the same time, 315MVA ICT 1 at 400/220kV Sarnath(UP) tripped due to operation of differential protection. As per PMU, Y-N fault is observed in the system. In antecedent conditions, 400kV Azamgarh(UP)-Sarnath(UP) & 315MVA ICT 1 at 400/220kV Sarnath(UP) carrying 471MW & 210MW respectively.			GI-2	
10	NR	1) 400kV Chamera1(NHPC)-Jalandhar(PG) ckt-2 2) 400kV Chamba(PG)-Jalandhar(PG) ckt-1	Punjab & HP	POWERGRID & NHPC	23-Aug-19	15:20	23-Aug-19	15:51	00:31	400kV Chamera1(NHPC)-Jalandhar(PG) ckt-2 & 400kV Chamba(PG)-Jalandhar(PG) ckt-1 tripped during time correction work of CSD relay of L/R of 400kV Chamba(PG)-Jalandhar(PG) ckt-1. As per PMU, Y-B fault is observed in the system. In antecedent conditions, 400kV Chamera1(NHPC)-Jalandhar(PG) ckt-2 & 400kV Chamba(PG)-Jalandhar(PG) ckt-1 carrying 238MW & 205MW respectively.			GI-2	
11	NR	1) 400kV Jind(PG)-Kirori(HVPNL) ckt-2 2) 315MVA ICT 3 at 400/220kV Kirori(HVPNL)	Haryana	POWERGRID & Haryana	28-Aug-19	13:20	28-Aug-19	15:40	02:20	400kV Jind(PG)-Kirori(HVPNL) ckt-2 tripped on R-N fault, 19km from Jind end. At the same time, 315MVA ICT 3 at 400/220kV Kirori(HVPNL) also tripped. As per PMU, R-N fault with no auto-reclosing attempt is observed. In antecedent conditions, 400kV Jind(PG)-Kirori(HVPNL) ckt-2 & 315MVA ICT 3 at 400/220kV Kirori(HVPNL) carrying 325MW & 109MW respectively.			GI-2	
12	NR	1) 400kV Panchkula(PG)-Panipat(BBMB) 2) 450MVA ICT 1 at 400/220kV Panipat(BBMB) 3) 450MVA ICT 2 at 400/220kV Panipat(BBMB) 4) 400 kV Main BAY/CB (401) of Panchkula at Panipat	Haryana	BBMB & POWERGRID	29-Aug-19	10:55	29-Aug-19	12:17	01:22	In antecedent conditions, (i) 400kV Dadri-Panipat-1 was under planned shutdown (X-3 & X-4 were out), (ii) 400kV Bus-1 main CB(X-6) of ICT-1 was under emergency outage due to Low SF6 gas in R-Phase CB Pole at BBMB Panipat. 400kV Panchkula(PG)-Panipat(BBMB) tripped due to snapping of R-Ph CT line side jumper of 400kV X1 main breaker at Panipat(BBMB). Due to outage of main breaker (X-4) of 400kV Panipat-Dadri-1, emergency outage 400 kV Bus-1 breaker (X-6) of ICT-1 and tripping of X-1 & X-7 CB (due to tripping of 400kV Panipat-Panchkula line), the 400kV Bus-2 got isolated from 400kV Bus-1 and power flow through ICT-1 and 2 became zero. As per PMU, Y-N fault is observed in the system. In antecedent conditions,	550		GD-1	0.33
13	NR	1) 220kV Salal(NHPC)-Jammu(JK) ckt-2 2) 220kV Salal(NHPC)-Jammu(JK) ckt-1 3) 220kV Jammu(JK)-Samba(PG)	Jammu & Kashmir	J&K, NHPC & POWERGRID	30-Aug-19	4:39	30-Aug-19	06:19	01:40	220kV Salal(NHPC)-Jammu(JK) ckt-2 tripped due to snapping of Jumper of R-Ph Isolator at Jammu end. At the same time, 220kV Salal(NHPC)-Jammu(JK) ckt-1 and 220kV Jammu(JK)-Samba(PG) also tripped. As per PMU, R-Y fault is observed in the system. In antecedent conditions, 220kV Salal(NHPC)-Jammu(JK) ckt-1, 2 & 220kV Jammu(JK)-Samba(PG) carrying 88MW, 78MW & 56MW respectively.	100		GD-1	0.166
14	NR	1) 400 kV Bus 1 at 400/220kV Banda(UP) 2) 400kV Rewa Road(UP)-Banda(UP) ckt-1 3) 400kV Rewa Road(UP)-Banda(UP) ckt-2	Uttar Pradesh	UP	31-Aug-19	00:07	31-Aug-19	02:00	01:53	400 kV Bus 1 at 400/220kV Banda(UP), 400kV Rewa Road(UP)-Banda(UP) ckt-1 & 2 tripped on overvoltage. As per PMU, No fault is observed in the system.			GI-2	

Western Region-Event Report for August 2019

S.No	Region	Name of Elements	Owner/Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA standards	Energy Unreserved (MU)
				Date	Time	Date	Time	Time					
1	WR	Tripping of 1.220 kV Uran-Apta 2&3 2.220 kV Uran-Khargar 2 3.220 kV Uran-JNPT 4.Uran 108 MW Unit 6&8 5.Uran 120 MW Unit A0	MSETCL	3-Aug-19	20:29	3-Aug-19	20:45	00:16	At 220 kV Uran s/s, flashover on Main Bus 2 R Phase Tension Disc Insulator String at 220 KV ONGC Bay resulted in tripping of all the elements connected to 220 kV Uran Bus 2 on Busbar protection operation.	202	13	GI-1	0.0035
2	WR	Tripping of 1.220 kV Uran-Apta 1&2 2.220 kV Uran-Khargar 1 3.220 kV Uran-ONGC 4.Uran 108 MW Unit 5 5.Uran 120 MW Unit B0	MSETCL	3-Aug-19	13:41	3-Aug-19	14:11	00:30	At 220 kV Uran s/s, 220 kV Bus 1 and all the connected elements tripped due to spurious LBB signal generated due to the faulty Binary input module of REB 670	176	8	GI-1	0.0040
3	WR	Tripping of 1.220 kV Uran-Apta 1&2 2.220 kV Uran-Khargar 1 3.220 kV Uran-ONGC 4.Uran 108 MW Unit 5 5.Uran 120 MW Unit A0	MSETCL	4-Aug-19	03:57	4-Aug-19	04:30	00:33	At 220 kV Uran s/s, 220 kV Bus 1 and all the connected elements tripped due to spurious LBB signal generated due to the faulty Binary input module of REB 670	220	18	GI-1	0.0099
4	WR	Tripping of 1.220 kV Uran-Apta 1&2 2.220 kV Uran-Khargar 1 3.220 kV Uran-ONGC	MSETCL	4-Aug-19	05:27	4-Aug-19	06:59	01:32	At 220 kV Uran s/s, 220 kV Bus 1 and all the connected elements tripped due to spurious LBB signal generated due to the faulty Binary input module of REB 670	Nil	12	GI-1	0.0184
5	WR	Tripping of 1.220 Kv Bhuj-Vadva 2.220/33 kv Vadva ICT 1 3.220/33 kv Vadva ICT 2 4.220/33 kv Vadva ICT 3	GIWEL	12-Aug-19	05:48	12-Aug-19	06:56	01:08	Due to the tripping of 220 kV Bhuj-Vadva S/C on B-E fault, 220/33 kv Vadva ICTs 1,2& 3 deenergized at 220 kv Vadva S/s.	78	Nil	GD-1	Nil
6	WR	Tripping of 1.220 kV Ponda Bus 1 2.220 kV Mapusa-Ponda 1 3.220 kV Ponda-Xeldem 2 4.220/110 kv Ponda ICT 1&2 5.220 kv Mahalakshmi-Amona	Goa	13-Aug-19	19:31	13-Aug-19	20:33	01:02	At 220 kV Ponda s/s, Dropper of 220KV Ponda-Xeldem-2 fell on 220KV Bus-1 and all the elements connected to 220 kv ponda Bus 1 tripped.	Nil	110	GI-1	0.1000
7	WR	Tripping of 1.220 kv Nashik-Airoli 2.220 kv Nashik-Bableshtar 1&2 3.220 kv Nashik-Ghatghar 4.220 kv Nashik-Airoli 5.Nashik Unit 4 (210 MW) 6.220/132 kv 200 MVA Nashik ICT 1&6 7.220/132 kv 150 MVA Nashik ICT 2	MSETCL	15-Aug-19	09:17	15-Aug-19	09:40	00:23	220 kv Nashik-Bableshtar 2 was taken on TBC at Nashik s/s for bus sectionaliser 3 outage.Trip circuit faulty alarm appeared on the Nashik TBC. To attend the problem the circuit was opened at Bableshtar end and the TBC isolator was opened with charging current which resulted in sparking of the isolator and created R-E fault. As the trip circuit of the line was faulty, TBC not opened and resulted in tripping of all the elements connected to 220 kv Nashik Main Bus on LBB operation.	110	30	GD-1	0.0200
8	WR	Tripping of 1.220 kv Amona-Ponda 2&3 2.220 kv Mahalakshmi-Amona 3.220 kv Amona-Tillari 4.220 kv Halkarni-Tillari	Goa	15-Aug-19	07:00	15-Aug-19	08:16	01:16	At 220 kv Amona s/s, due to failure of Y-ph LA of 220KV Tillari feeder all the elements connected to 220 kv Amona Bus 2 tripped.	Nil	Nil	GI-1	Nil
9	WR	Tripping of 1.400 kv Ukai-Kosamba 2.400 kv Ukai-Navsari 3.400/220 kv Ukai ICT 1	GETCO	15-Aug-19	14:00	15-Aug-19	19:20	05:20	At 400/220 kv Ukai s/s, 400kv Ukai-Kosamba and Ukai-Navsari lines tripped on over-voltage & 400/220kv ICT tripped on Overflux & differential protection operation. Due to tripping of all the elements, 400kv Bus 1&2 at Ukai substation deenergized.	Nil	Nil	GI-2	Nil

S.No	Region	Name of Elements	Owner/Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA standards	Energy Unreserved (MU)
				Date	Time	Date	Time	Time					
10	WR	Tripping of 1.400 kV Ukai-Kosamba 2.400/220 kv Ukai ICT 1	GETCO	16-Aug-19	01:06	16-Aug-19	06:55	05:49	At 400/220 kV Ukai s/s, 400kV Ukai-Kosamba tripped on over-voltage & 400/220kV ICT tripped on Overflux protection operation. 400kV Bus 1&2 at Ukai substation deenergized as 400kV Ukai -Navsari was already out on voltage regulation.	Nil	Nil	GI-2	Nil
11	WR	Tripping of 1.220 kV Dhule Interconnector 1&2 2.220 kV Dhule-Chalisgaon 3.220/132 kV 200 MVA Dhule ICT 1&2	MSETCL	22-Aug-19	12:36	22-Aug-19	13:00	00:24	At 220/132 kV Dhule(MH) s/s, due to the sparking in 220 kV Bus Bar relay panel on RQDA module of RADSS bus bar panel, Bus bar protection operated and all elements connected to 220 kV Main Bus tripped.	Nil	19	GI-1	0.0095
12	WR	Tripping of 1.220 Kv Bhuj-Vadva 2.220/33 kV Vadva ICT 1 3.220/33 kV Vadva ICT 2 4.220/33 kV Vadva ICT 3	GIWEL	24-Aug-19	18:00	24-Aug-19	19:49	01:49	Due to the tripping of 220 kV Bhuj-Vadva S/C on O/C current protection operation, 220/33 kV Vadva Icts 1,2& 3 deenergized at 220 kv Vadva S/s.	30	Nil	GD-1	Nil
13	WR	Tripping of 1.220 kV Panandhro Bus 2 2.220 kV Panandhro -Akrimota 1 3.220 kV Panandhro -Kukma 2 4.220 kV Panandhro - Nakhatrana 1&2 5.70 MW KLTPS Unit 2 6.75 MW KLTPS Unit 4	GETCO	25-Aug-19	02:22	25-Aug-19	03:59	01:37	At 220 kV Panandhro, R-phase CT of 25MVAR BR caught fire and resulted in tripping of all the elements connected to 220 kV Panandhro Bus 2.	105	Nil	GI-1	Nil
14	WR	Tripping of 1.132 kV Siltara-Vandana 2.220/132 kV Siltara ICT 2 3.220/132 kV Siltara ICT 3	CSPTCL	28-Aug-19	15:36	28-Aug-19	15:55	00:19	Due to the R phase fault in 132 kV Siltara-Vandana feeder, 220/132 kV Siltara ICTs 2&3 tripped.	Nil	192	GI-1	0.0608

Disclaimer : The Above details are based on the preliminary/flash report of the event and may change after finalisation of the detailed report.The quantum of load/generation loss is based on details given by SLDC and utility and may vary later with updated details.

Southern Region-Grid Event Report for August 2019

Sl. No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Energy Unserviced (MU)
				Date	Time (Hrs)	Date	Time (Hrs)	Time					
1	SR	1. 400kV KTPS VII Khammam 2. 400kV KTPS VII Julurpadu line-1 3. 400kV KTPS VII Julurpadu line-2 4. 400kV Suryapet Julurpadu line-2 5. 400kV Manuguru Julurpadu line-1	TSGENCO	4-Aug-19	18:01	4-Aug-19	18:59	58 mins	Complete Outage of 400kV KTPS VII Generating Station of TSGENCO: During antecedent conditions, 400kV KTPS VI to KTPS VII line was under outage for maintenance works. Running unit at KTPS VII got tripped at 16:53hrs on 04-08-2019 due to turbine side problem. At 18:00hrs on 04-08-2019, all connected lines at 400kV KTPS VII generating station got tripped subsequently on Over voltage Stage-1 protection operation at KTPS VII which lead to de-energization of KTPS VII Bus-1&2.	NIL	NIL	GD-1	---
2	SR	(1). 400kV KTPS VII Khammam (2). 400kV KTPS VII Julurpadu line-1 (3). 400kV KTPS VII Julurpadu line-2 (4). 400kV Manuguru Julurpadu line-1	TSGENCO	6-Aug-19	23:50	7-Aug-19	00:07	17 mins	Complete Outage of 400kV KTPS VII Generating Station of TSGENCO: During antecedent conditions, 400kV KTPS VI to KTPS VII line was under outage for maintenance works. Running unit at KTPS VII got tripped at 23:48hrs on 06-08-2019 due to main steam valve problem. At 23:50hrs on 06-08-2019, all connected lines at 400kV KTPS VII generating station got tripped subsequently on Over voltage Stage-1 protection operation at KTPS VII which led to de-energization of KTPS VII Bus-1&2.	NIL	NIL	GD-1	---
3	SR	1. 220kV Paravada- VSS(Vizag Switching Station)	APTRANSCO	8-Aug-19	11:34	8-Aug-19	11:43	9 mins	Complete outage of 220kV/132kV Paravada SS of APTRANSCO: Triggering incident was failure of Y-ph LA of 220kV Paravada- VSS(Vizag Switching Station) line at Paravada end. 220kV Paravada SS was radially fed from 220kV VSS during antecedent conditions. Hence, tripping of 220kV Paravada- VSS line led to complete loss of supply at 220kV/132kV Paravada SS.	NIL	84 MW	GD-1	0.01
4	SR	1. 220kV NPKunta (POWERGRID)- Galiveedu PS-1 line-2 2. 400/220kV ICT-1,2,3,4 at NP Kunta	APSPCL	12-Aug-19	12:08	12-Aug-19	13:39	1 hr 31 mins	Complete Outage of 220kV Galiveedu PS-1, 2 &3 and 220kV NP Kunta PS-1 SS of APSPCL: Triggering incident was YN fault in 220kV NPKunta POWERGRID Galiveedu PS-1 line-2 due to jumper disconnection from Y-ph at Loc. No. 33. At the same time, 220kV NPKunta POWERGRID Bus-1 bus bar protection operated resulting in the tripping of all four connected 400kV/220kV ICTs and lines at NPKunta . protection at 220kV NPKunta . Due to tripping of all connected 400kV/220kV ICTs at NPKunta and 220kV NPKunta POWERGRID- Galiveedu PS-1 line-1, 220kV bus got de-energized at 220kV NPKunta POWERGRID, 220kV Galiveedu PS-1, 2, 3 and 220kV NPKunta PS-1 .	480 MW	NIL	GD-1	---
5	SR	All connected elements at 220kV Lower Sileru	APGENCO	23-Aug-19	18:52	23-Aug-19	20:30	1 hr 38 mins	Complete outage of 220kV Lower Sileru GS of APGENCO: Maloperation of Bus-1 and Bus-2 bus bar protection lead to tripping of all connected elements at 220kV Lower Sileru resulting in complete loss of supply at 220kV Lower Sileru station.	NIL	NIL	GD-1	---
6	SR	i. 400kV/220 kV ICT-1 at Gazuwaka ii. 400kV/220 kV ICT-2 at Gazuwaka iii. 220kV VSS MRS Vizag line-1 and 2 iv. 220kV VSS Gangawaram v. 220kV VSS Gazuwaka PGCIL line-1 and 2 vi. 220kV VSS Pendurty line- 1 and 2 vii. 220kV VSS Kalpaka line-1 and 2 viii. 220kV VSS Kakinada ix. 220kV VSS Gazuwaka AP line x. 220kV VSS Parvada	APTRANSCO	28-Aug-19	15:31	28-Aug-19	15:50	19 mins	Complete Outage of 220kV Vizag Switching Station and 220kV Paravada SS of APTRANSCO: 220kV VSS Gazuwaka PG line-1 at VSS end, R-Phase dropper from Jack bus to bridge was detached from pilot string due to failure of suspension hardware eye bolt and got into contact with R-Phase Bus isolators. Due to this Bus-1 and Bus-2 Bus Bar Protection operated at 220kV VSS end resulting in the tripping of all the connected elements. 400kV/220kV ICT#1 and 2 at Gazuwaka also got tripped during this event. 220kV Paravada SS was radially fed from 220kV VSS during antecedent conditions. Hence, tripping of 220kV Paravada- VSS line led to complete loss of supply at 220kV/132kV Paravada SS	NIL	172 MW	GD-1	0.05

Sl. No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Energy Unserved (MU)
				Date	Time (Hrs)	Date	Time (Hrs)	Time					
7	SR	1. 230KV PASUMALAI - MADURAI 2. 230KV THENI - MADURAI 3. 230KV KINNIMANGALAM - MADURAI 4. 230KV NALLAMANAYAKKANPATTY -MADURAI 5. 230KV RENGANATHAPURAM - MADURAI 6. 400/230KV ICT-1 and ICT-2	TANTRANSCO	19-Aug-19	12:28	19-Aug-19	14:17	1 hr 49 mins	Outage of 230kV Bus-1 at 400/230kV Madurai station of TANTRANSCO: Triggering incident was jumper cut of 230kV Madurai-Ranganathapuram feeder. Bus bar protection of Bus-1 operated resulting in tripping of all elements connected to 230kV bus-1.	-----	-----	GI-1	-----

Eastern Region-Grid Event Report for August 2019

Sl. No.	Region	Name of major elements tripped	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Loss of Energy(in MU)
				Date	Time	Date	Time						
1	ERLDC	HVDC Talcher - Kolar pole I	ISTS	5-Aug-19	10:14	5-Aug-19	11:02	00:48	At 10:14 hrs, pole I of HVDC Talcher-Kolar blocked on operation of external protection trip operation. Prior to the blocking, power flow through HVDC link was 600 MW which did not change after the blocking of pole I. Due to SPS operation generation at JITPL reduced from 540 MW to 490 MW.	50	0	GI-II	0.0000
2	ERLDC	220kV CTPS-B-CTPS-A Tie Ckt-II(L#246) 220kV CTPS-B-Dhanbad Ckt-II (L#204) 220kV CTPS-B-BTPS-B Ckt-II (L#206) Unit VII & VIII at CTPS B	DVC	8-Aug-19	21:23	8-Aug-19	22:23	01:00	At about 21:23hrs on 08-08-19, LBB protection operated for 220 kV Main Bus I at CTPS –B resulting tripping of all elements connected to 220 kV main bus I i.e. 220kV CTPS-B-CTPS-A Tie Ckt-II(L#246), 220kV CTPS-B-Dhanbad Ckt-II (L#204), 220kV CTPS-B-BTPS-B Ckt-II (L#206) and VIII at CTPS B. Bus coupler breaker was in opened condition prior to the incident. Unit VII (connected to bus II) also tripped due to auxiliary failure, resulting in a generation loss of 460 MW.	460	0	GI-I	0.0000
3	ERLDC	220 kV Bolangir (PG) – Katapalli – S/C 220 kV New Bargarh – Katapalli S/C	OPTCL	13-Aug-19	05:53	13-Aug-19	06:10	00:17	At 05:18 hrs (almost 30 min before the disturbance), 220 kV Bolangir (PG) – Sadaipalli S/C tripped from Sadaipalli end. At 05:53 hrs, 220 kV Bolangir (PG) – Katapalli S/C and 220 kV New Bargarh – Sadaipalli S/C tripped resulting total power failure at Sadaipalli (Bolangir New) and its surrounding connected areas.	0	90	GD-I	0.0255
4	ERLDC	220 kV EMSS - Subhasgram D/C	CESC	16-Aug-19	16:22	16-Aug-19	16:29	00:07	220 kV EMSS - Subhasgram - I & II tripped at 16:22 and 16:23 hrs respectively resulting total power failure at EMSS. Circuit I tripped on R-N fault followed by Y-N fault. Circuit II tripped on R-N fault after unsuccessful A/R attempt.	467	0	GD-I	0.0000
5	ERLDC	220 kV Darbhanga - Darbhanga - I	BSPTCL	16-Aug-19	22:23	17-Aug-19	00:10	01:47	220 kV Darbhanga (DMTCL) – Darbhanga (BSPTCL) - II was not in service. 220 kV Darbhanga (DMTCL) – Darbhanga (BSPTCL) - I tripped at 22:23 hrs from DMTCL end on Y-N fault (F/C 1.147 kA) leading to load loss of around 155 MW at Darbhanga, Pupri, Madhubani, Pandua, Jhanjharpur area in Bihar system. Line was charged from DMTCL at 23:15 hrs but again tripped at 23:17 hrs from Darbhanga(B) end. Later, power was extended to Darbhanga from Motipur through 220 kV Motipur-Musari-Darbhanga link and entire load progressively restored by 00:10 hrs on 17-08-19.	0	186	GD-I	0.3317
6	ERLDC	220 kV Gaya Dehri D/C 220 kV Sasaram – Dehri S/C 220/132 kV ICTSs at Dehri	BSPTCL	18-Aug-19	17:24	18-Aug-19	18:34	01:10	At 17:24 hrs 220 kV Gaya Dehri D/C, 220 kV Sasaram – Dehri S/C and 220/132 kV ICTSs at Dehri tripped resulting total power failure at Dehri. Y phase jumper on LV side of 220/132 kV ICT IV at Dehri snapped. As per PMU data at Gaya, fault clearing time is 900 ms.	0	217	GD-I	0.2532
7	ERLDC	400 kV Teesta III Kishangunj S/C 400 kV Dikchu – Rangpo – S/C	ISTS	21-Aug-19	00:02	21-Aug-19	01:10	01:08	400 kV Teesta III Kishangunj S/C and 400 kV Rangpo – Kishangunj S/C were out of service due to breakdown. At 00:00 hrs, on 21-08-19, generation was increased at Dikchu and Teesta HEP from 60 MW to 102 MW and from 900 MW to 1100 MW respectively. On further increase of generation at Teesta III to 1260 MW at 00:02 hrs., power flow through 400 kV Dikchu – Rangpo – S/C became 1365 MW resulting operation of Directional O/C protection at Rangpo end of 400 kV Dikchu – Rangpo – S/C though current was less than 2 kA at the time of the tripping (Main I >1 relay remained picked up condition since 1 min prior to the disturbance. Current in three phases was 1.9 kA). After the tripping of 400 kV Dikchu – Rangpo – S/C, Teesta III and Dikchu HEP (on low forward power protection) generators tripped due to loss of evacuation path. At same time, O/V stage II protection occurred at Teesta III end for 400 kV Teesta III – Dikchu S/C and tripped the said line.	1364	0	GD-I	0.0000
8	ERLDC	220 kV Jorethang – New Melli D/C Jorethang unit I & II	ISTS	22-Aug-19	12:22	22-Aug-19	12:34	00:12	At 12:17 hrs, all running units at Jorethang tripped due to loss of evacuation path after the tripping of 220 kV Jorethang – New Melli D/C. As per DR recorded at Jorethang end for 220 kV New Melli – I feeder, fault was cleared in Z-I and breaker opened from remote end after 500 ms.	91	0	GD-I	0.0000
9	ERLDC	400kV New Purnea-Kishangunj D/C 400kV New Purnea-Muzaffarpur D/C 400kV New Purnea-Binaguri D/C 400kV Bus-I & II at New Purnea 400kV New Purnea-Malda D/C 400/220 kV ICT-I & II at New Purnea	ISTS	29-Aug-19	08:08	29-Aug-19	09:02	00:54	The 400 kV Y-ph CT 125MVAR BR-1 main bay of New Purnea Sub-station had failed and caught fire. On 29.08.2019 at 08:08 Hrs. The Said 125MVAR Bus Reactor-1 was out of service on voltage regulation. However the bay was in charge condition for completion of the DIA. Due to said failure of the CT, 400kV Busbar-2 protection operated due to failure of CT and all the CB's connected with 400kV Busbar-2 got tripped however as the fault was even persisting after tripping of Busbar-2, all the connected feeders with Bus-1 tripped on operation of Z-2 from remote end and Reverse zone from New Purnea end (Except 400kV Kishangunj 1 & 2, whose main CB didn't trip as the line tripped from Kishangunj end in 350 m Sec in Z2). All the anti-theft charged line from New Purnea (Biharshar-1 &2 and Farakka) also tripped instantaneously. All the 220kV feeders were in service and power to Bihar STU was not interrupted.	0	0	GI-II	0.0000

North Eastern Region-Grid Disturbances Report for August 2019

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	132 kV Dimapur - Bokajan line and 132 kV Bokajan - Golaghat line	AEGCL	02-Aug-19 09:12	02-Aug-19 09:36	0:24	Bokajan area of Assam Power System was connected with the rest of NER Grid through 132 kV Dimapur - Bokajan line and 132 kV Bokajan - Golaghat line. At 09:12 Hrs on 02.08.19, 132 kV Dimapur - Bokajan line and 132 kV Bokajan - Golaghat line tripped. Due to tripping of these elements, Bokajan area of Assam Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.006	GD 1
2	NER	132 kV Imphal (PG)-Imphal (MA) line 1 & 2 lines.	POWERGRID & MSPCL	03-Aug-19 12:55	03-Aug-19 13:02	0:07	Imphal area of Manipur Power System was connected with the rest of the NER grid through 132 kV Imphal (PG)-Imphal (MA) line 1 & 2 lines. 132 kV Imphal (MA)-Karong line was under outage due to construction work. 132 kV Kongba-Kakching line was kept opened due to system requirement. At 12:55 Hrs on 03.08.2019, 132 kV Imphal (PG)-Imphal (MA) line 1 & 2 lines tripped. Due to tripping of these elements, Imphal area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	34	0	0.004	GD 1
3	NER	132 kV Melriat(PG)-Zuangtui line	POWERGRID	04-Aug-19 15:00	04-Aug-19 15:27	0:27	Zuangtui area of Mizoram Power System was connected with rest of NER Grid through 132 kV Melriat(PG)-Zuangtui line. At 15:00 Hrs on 04.08.19, 132 kV Melriat(PG)-Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	37	0	0.016	GD 1
4	NER	132 kV Balipara - Khupi line	NEEPCO & DoP, Arunachal Pradesh	05-Aug-19 13:23	05-Aug-19 13:46	0:23	Khupi area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Balipara - Khupi line. At 13:23 Hrs on 05.08.19, 132 kV Balipara - Khupi line tripped. Due to tripping of this element, Khupi area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	0	0.008	GD 1
5	NER	132 kV Kohima - Imphal (PG) line and 132 kV Kohima - Wokha line	DoP, Nagaland & POWERGRID	07-Aug-19 10:08	07-Aug-19 11:22	1:14	Capital area of Nagaland Power System and Karong area of Manipur Power System were connected with rest of NER Grid through 132 kV Kohima - Imphal (PG) line and 132 kV Kohima - Wokha line. 132 kV Imphal (Yurembam) - Karong line was under shutdown. At 10:08 Hrs on 07.08.19, 132 kV Kohima - Imphal (PG) line and 132 kV Kohima - Wokha line tripped due to snapping of Y-Phase of 132 kV Bus-Bar at 132 kV Kohima Substation. Due to tripping of these elements, Capital area of Nagaland Power System and Karong area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	20	28	0.024	0.034	GD 1
6	NER	132 kV Rokhia - Agartala 1 line and 132 kV Rokhia - Monarchak line	TSECL	07-Aug-19 14:09	07-Aug-19 14:24	0:15	Rokhia area of Tripura Power System was connected with rest of NER Grid through 132 kV Rokhia - Agartala 1 line and 132 kV Rokhia - Monarchak line. 132 kV Rokhia - Agartala 2 line was under planned shutdown since 09:30 Hrs on 07.08.19. At 14:09 Hrs on 07.08.19, 132 kV Rokhia - Agartala 1 line and 132 kV Rokhia - Monarchak line tripped. Due to tripping of these elements, Rokhia area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	34	14	0.008	0.003	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
7	NER	132 kV Lekhi- Pare line.	POWERGRID	08-Aug-19 12:32	08-Aug-19 12:43	0:11	Lekhi and Nirjuli areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Lekhi- Pare line. 132 kV Lekhi -Itanagar Line was kept open due to CT problem at Lekhi end and 132 kV Nirjuli- Gohpur Line was kept open for system requirement. At 12:32 Hrs on 08.08.19, 132 kV Lekhi- Pare line tripped. Due to tripping of this element, Lekhi and Nirjuli areas were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	36	0	0.006	GD 1
8	NER	132KV-Ranganadi -Ziro Line	POWERGRID	09-Aug-19 23:17	10-Aug-19 00:03	0:46	Ziro area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Ranganadi - Ziro line. At 23:17 Hrs on 09.08.2019, 132 kV Ranganadi - Ziro line tripped. Due to tripping of this element, Ziro area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	29	0	0.02	GD 1
9	NER	132 kV Sarusajai-Kahelipara 1,2 & 3 lines	AEGCL	10-Aug-19 11:35	10-Aug-19 11:51	0:16	Capital area of Assam Power System was connected with rest of NER Grid through 132 kV Sarusajai-Kahelipara I, II and III lines. 132 kV Dhaligaon- Nalbari line, 132 kV Rangia- Bornagar line, 132 kV Rangia- Siphajhar line and 132 kV Rangia- Rowta line were in idle charged condition. At 11:35hrs on 10.08.19, 132 kV Sarusajai-Kahelipara I, II and III lines tripped. Due to tripping of these elements, Capital area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	250	0	0.067	GD 2
10	NER	132 kV Rangia-Motonga line and 132 kV Kamalpur-Kahelipara line	AEGCL, POWERGRID & BPC	13-Aug-19 16:35	13-Aug-19 16:44	0:09	Rangia and Kamalpur areas of Assam Power System were connected with the rest of NER Grid through 132 kV Rangia-Motonga line and 132 kV Kamalpur-Kahelipara. At 16:35 Hrs on 13.08.2019, 132 kV Rangia-Motonga line and 132 kV Kamalpur-Kahelipara line tripped. Due to tripping of these elements, Rangia and Kamalpur areas were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	30	0	0.005	GD 1
11	NER	132 kV Pare – Ranganadi 2 line,132 kV Pare-Lekhi line,132 kV Lekhi-Nirjuli line ,Pare Unit-1, 132 kV Bus Coupler at Pare	DoP, AP, NEEPCO, POWERGRID	15-Aug-19 09:27	15-Aug-19 09:54	0:27	Lekhi and Nirjuli areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Pare - RHEP 2 line and 132 kV Bus Coupler at Pare (132 kV Gohpur-Nirjuli line was under shutdown). At 19:27 Hrs on 15.08.2019, 132 kV Pare - RHEP 2 line and 132 kV Bus Coupler at Pare tripped. Due to tripping of these elements, Lekhi and Nirjuli areas of Arunachal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	55	34	0.029	0.015	GD 1
12	NER	132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line	POWERGRID	16-Aug-19 14:13	16-Aug-19 14:38	0:25	Kolasib area of Mizoram Power System and Tural Power Station were connected to the rest of the grid through 132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line. At 14:13 Hrs on 16.08.2019, 132 kV Badarpur- Kolasib line and 132 kV Aizawl - Kolasib line tripped. Due to these trippings, Kolasib Area of Mizoram area & Tural Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	27	1	0.011	0.0004	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
13	NER	132 kV Pasighat -Roing line	POWERGRID	22-Aug-19 14:56	22-Aug-19 15:47	0:51	Roing area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Pasighat -Roing line. At 14:56 Hrs on 22.08.2019, 132 kV Pasighat-Roing line tripped. Due to tripping of this element, Roing area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	0.01	GD 1
14	NER	132 kV Silchar - Badarpur D/C, 132 kV Badarpur - Khleihriat line, 132 kV Badarpur - Panchgram line & 132 kV Panchgram - Hailakandi line	POWERGRID, AEGCL	22-Aug-19 18:51	22-Aug-19 19:16	0:25	Panchgram area of Assam Power System was connected with the rest of NER Grid through 132 kV Badarpur - Panchgram & 132 kV Panchgram - Hailakandi lines.(132 kV Lumshong-Panchgram and 132 kV Srikona-Pailapool were under shutdown) At 18:51 Hrs on 22.08.2019, 132 kV Silchar - Badarpur D/C, 132 kV Badarpur - Khleihriat line, 132 kV Badarpur - Panchgram line & 132 kV Panchgram - Hailakandi line tripped. Due to tripping of these elements, Panchgram area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	20	0	0.008	GD 1
15	NER	132 kV Along-Pasighat line	DoP, Arunachal Pradesh	24-Aug-19 12:45	24-Aug-19 12:50	0:05	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along -Pasighat line (Owner- DoP, Arunachal Pradesh). At 12:45 Hrs on 24.08.2019, 132 kV Along-Pasighat line tripped. Due to tripping of this element, Pasighat area with Roing, Tezu & Namsai areas were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	0	10	0	0.001	GD 1
16	NER	132 kV Lekhi- Pare line	NEEPCO, POWERGRID, DoP, Arunachal Pradesh	25-Aug-19 12:25	25-Aug-19 12:44	0:19	Lekhi and Nirjuli areas of Arunachal Pradesh Power System and part of Gohpur load of Assam Power System were connected with rest of NER Grid through 132 kV Lekhi- Pare line. 132 kV Lekhi - Itanagar Line was kept open due to CT problem at Lekhi end and 132 kV Bus Coupler at Gohpur was kept opened to avoid overloading of 132 kV Pare - Lekhi Line. At 12:25 Hrs on 25.08.19, 132 kV Lekhi- Pare line tripped. Due to tripping of this element, Lekhi and Nirjuli areas of Arunachal Pradesh Power System and part of Gohpur load of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	47	0	0.006	GD 1
17	NER	132 kV Lumshnong - Khleihriat line	MePTCL	25-Aug-19 13:01	25-Aug-19 13:17	0:16	Lumshnong area of Meghalaya Power System was connected with rest of NER Grid through 132 kV Lumshnong - Khleihriat line. 132 kV Lumshnong - Panchgram Line kept open for fulfillment of precondition of SPS-1 operation. At 13:01 Hrs on 25.08.19,132 kV Lumshnong - Khleihriat line tripped. Due to tripping of this element, Lumshnong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	0	0.006	GD 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
18	NER	132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line	POWERGRID	26-Aug-19 09:54	26-Aug-19 10:18	0:24	Kolasib area of Mizoram Power System and Tural Power Station were connected with rest of NER Grid through 132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line. At 09:54 hrs on 26.08.19, 132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line tripped. Due to tripping of these elements, Kolasib area of Mizoram Power System and Tural Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	59	4	0.042	0.002	GD 1
19	NER	132 kV Kohima-Wokha line,132 kV Imphal-Kohima line and 132 kV Karong-Kohima line	DoP,Nagaland, POWERGRID	28-Aug-19 05:23	28-Aug-19 05:40	0:17	Capital area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Imphal-Kohima Line, 132 kV Kohima - Wokha line and 132 kV Kohima - Karong Line. At 05:23 Hrs on 28.08.2019, 132 kV Kohima-Wokha line,132 kV Imphal-Kohima and 132 kV Karong-Kohima tripped along with Doyang Unit 2. Due to tripping of these elements, Capital area was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	21	25	0.004	0.007	GD 1
20	NER	132 kV Hailakandi - Panchgram line and 132 kV Badarpur - Panchgram line	POWERGRID & AEGCL	30-Aug-19 09:39	30-Aug-19 09:45	0:06	Panchgram area of Assam Power System was connected with the rest of NER Grid through 132 kV Hailakandi - Panchgram line and 132 kV Badarpur - Panchgram line. (132 kV Srikona - Panchgram Line is under long outage, 132 kV Panchgram - Lumshnong line was idle charged for system requirement) At 09:39 Hrs on 30.08.19, 132 kV Hailakandi - Panchgram line and 132 kV Badarpur - Panchgram line tripped. Due to tripping of these elements, Panchgram area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	0	0.003	GD 1
21	NER	132 kV Monarchak - Udaipur line,132 kV Monarchak - Rokhia line	TSECL	31-Aug-19 05:44	31-08-2019 06:15	0:31	Monarchak area of Tripura Power System & TGBPP were connected with the rest of NER Grid through 132 kV Monarchak - Rokhia line.(132 kV Monarchak - Udaipur line tripped at 05:42 Hrs on 31.08.19). At 05:44 Hrs on 31.08.19, 132 kV Monarchak - Rokhia line tripped. Due to tripping of this element, Monarchak area & TGBPP were separated from the rest of NER Grid and subsequently collapsed due to load-generation mismatch in this area.	94	5	0.049	0.003	GD 1

North Eastern Region-Grid Incidences Report for August 2019

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	Ranganadi Unit 1	NEEPCO	02-Aug-19 07:00	02-Aug-19 09:00	2:00	Ranganadi Unit 1 tripped at 07:00 Hrs on 02.08.19 due to Bus and Generator Differential Protection. (Revision of schedule from block no 37 on 02.08.19)	135	0	0.27	0	GI 2
2	NER	Kopili Unit 3	NEEPCO	02-Aug-19 07:30	02-Aug-19 08:30	1:00	Kopili Unit 3 tripped at 07:30 Hrs on 02.08.19 due to Excitation failure. (Revision of schedule from block no 35 on 02.08.19)	49	0	0.049	0	GI 2
3	NER	Khandong - Unit 1	NEEPCO	08-Aug-19 13:53	08-08-2019 14:45	0:52	Khandong Unit 2 tripped at 13:53 Hrs on 08.08.2019 due to high thrust bearing temperature. (Revision of schedule from block no 60 on 08.08.19)	22	0	0.019	0	GI 1
4	NER	Palatana - Unit 1	OTPC	08-Aug-19 19:51	08-08-2019 20:30	0:39	Palatana Module 1(GT & ST) & 2 (GT & ST) tripped at 19:51 Hrs on 08.08.19 due to Drum level low protection operated.(Revision of Schedule from Block No. 83 on 08.08.19)	222	0	0.14	0	GI 2
5	NER	Palatana - Unit 1	OTPC	08-Aug-19 22:06	08-08-2019 22:45	0:39	Palatana Module 1(GT & ST) & 2 (GT & ST) tripped at 22:06 Hrs on 08.08.19 due to Fuel temperature high protection operated. (Revision of Schedule from Block No. 92 on 08.08.19)	13	0	0.008	0	GI 2
6	NER	Kopili Unit 2	NEEPCO	09-Aug-19 09:36	09-08-2019 10:30	0:54	Kopili Unit 2 tripped at 09:36 Hrs on 09.08.2019 due to GT overall differential protection operated. (Revision of schedule from block no 43 on 09.08.19)	47	0	0.042	0	GI 2
7	NER	Ranganadi- Unit 2	NEEPCO	09-Aug-19 23:17	10-08-2019 00:00	0:43	Ranganadi- Unit 2 tripped at 23:17 Hrs on 09.08.2019 due to Generator Lockout. (Revision of schedule from block no 1 on 10.08.19)	117	0	0.084	0	GI 2
8	NER	Ranganadi Unit 3	NEEPCO	09-Aug-19 23:44	10-08-2019 00:45	1:01	Ranganadi Unit 3 tripped at 23:44 Hrs on 09.08.2019 due to operation of differential protection. (Revision of schedule from block no 3 on 10.08.19)	133	0	0.135	0	GI 2
9	NER	Doyang Unit 2,3	NEEPCO	12-Aug-19 13:41	12-Aug-19 14:01	0:20	Doyang Unit 2 & 3 tripped at 13:41 Hrs on 12/08/19 due to tripping of 132 kV Doyang-Dimapur(PG) Circuit I & II and tripping of 02 nos. of 30 MVA, 220/132 kV ICTs at 220 kV Mokochong(PG) SS (Revision of schedule from Block No. 54 on 07.02.19).	44	0	0.01	0	GI 1
10	NER	Khandong - Unit 1	NEEPCO	16-Aug-19 15:30	16-Aug-19 16:15	0:45	Khandong - Unit 1 tripped at 15:30 Hrs on 16/08/19 due to very high thrust bearing temperature. (Revision of schedule from Block No. 66 on 16.02.19).	21	0	0.016	0	GI 1
11	NER	Khandong Unit 2	NEEPCO	21-Aug-19 08:26	21-08-2019 09:15	0:49	Khandong Unit 2 tripped at 08:26 Hrs on 21/08/19 due to OPU Problem (Revision of schedule from Block No. 39 on 21.08.19).	22	0	0.018	0	GI 1
12	NER	Khandong Unit 2	NEEPCO	26-Aug-19 03:20	26-Aug-19 05:00	1:40	Khandong Unit 2 tripped at 03:20 Hrs on 26/08/19 due to very high thrust bearing temperature (Revision of schedule from Block No. 21 on 26.08.19).	23	0	0.038	0	GI 1

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
13	NER	AGBPP Unit 2 & 3	NEEPCO	27-Aug-19 17:33	27-Aug-19 18:15	0:42	AGBPP Unit 2 & 3 tripped at 17:33 Hrs on 27/08/19 due to tripping of gas booster compressor (Revision of schedule from Block No. 74 on 27.08.19).	57	0	0.040	0	GI 2
14	NER	AGBPP Unit 3	NEEPCO	28-Aug-19 08:26	28-Aug-19 09:00	0:34	AGBPP Unit 3 tripped at 08:26 Hrs on 28/08/19 due to control power failure (Revision of schedule from Block No. 37 on 28.08.19).	45	0	0.026	0	GI 2
15	NER	BGTPP Unit 2	NTPC	28-Aug-19 16:46	28-Aug-19 17:30	0:44	BGTPP Unit 2 tripped at 16:46 Hrs on 28/08/19 due to flame failure (Revision of schedule from Block No. 71 on 28.08.19).	227	0	0.166	0	GI 2
16	NER	AGBPP Unit-2 & 4	NEEPCO	30-Aug-19 07:51	30-Aug-19 08:30	0:39	AGBPP Unit-2 & 4 tripped at 07:51 Hrs on 30.08.19 due to tripping of Gas Compressor-3.(Revision of schedule from Block No. 35 on 30.08.19)	58	0	0.038	0	GI 2
17	NER	AGBPP Unit-8	NEEPCO	30-Aug-19 09:06	30-Aug-19 09:45	0:39	AGBPP Unit-8 tripped at 09:06 Hrs on 30.08.19 due to tripping of Gas Compressor-3.(Revision of schedule from Block No. 40 on 30.08.19)	12	0	0.008	0	GI 2
18	NER	AGBPP Unit-2 & 4	NEEPCO	30-Aug-19 23:40	31-Aug-19 00:15	0:35	AGBPP Unit-2 & 4 tripped at 23:40 Hrs on 30.08.19 due to tripping of Gas Compressor-1.(Revision of schedule from Block No. 2 on 31.08.19)	59	0	0.034	0	GI 2