List of Grid Incidents during May 2017_NR

S.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 (in MU)
				Date	Time	Date	Time	Time					
1	NR	1.400kV Roja-Sahajanpur (PG)-1 2.400kV Roja-Sahajanpur(PG)-2 3.200MVA ICT-1 at Roja 4.200MVA ICT-2 ar Roja 5.Unit#3 of Roja TPS 6.Unit#4 of Roja TPS	UP	01-May-17	03:02	1-May-17	4:33	01:31	As per PMU (Phsor Measurement Unit) data, Y-phase to earth fault observed in the system, fault clearing time was 120ms. During fault, 400kV Roja-Sahajanpur double circuit line tripped and 200MVA ICT-1&2 at Roja TPS also tripped on overload/ over current protection. Unit-3&4 of Roja TPS connected on 400kV side also tripped due to evacuation constraint after tripping of 400/220kV ICTs.	400	NIL	GD1	Nil
2	NR	1. 210MW Unit#3 of Kota TPS 2.210MW Unit#5 of Kota TPS 3.195MW Unit#7 of Kota TPS 4.220kV KTPS-Morak 5.220kV KTPS-PGCIL 1 6.220kV KTPS-Sakatpura 3 7.50MVA Station Transformer 3	Rajasthan	02-May-17	23:51	3-May-17	01:08	01:17	LBB (Local Breaker Backup) protection operated for 210MW Unit #5 at Kota TPS . It leads to tripping of all running units and 220kV lines which were connected to 220kV Bus-3.	996	NIL	GD1	Nil
3	NR	1.220kV Fatehpur-Fatehpur(PG)1 2.220kV Fatehpur-Fatehpur(PG)2 3.160MVA ICT-1 at Fatehpur 4.160MVA ICT-2 at Fatehpur 5.220kV Fatehpur-Banda 6.220kV Fatehpur-Unchar 1 7.220kV Fatehpur-Unchar 2	UP/POWERGRID	04-May-17	10:08	04-May-17	10:52	00:44	R-phase conductor of 220kV Fatehpur-Sirathu line snapped. It may be resulted into tripping of all 220kV lines on earth fault porotection. From PMU, the time taken to clear the fault is more than expected, probable the fault cleared from remote end on earth fault.	NIL	74	GD1	0.03
4	NR	1.400kV ParichaTPS-Orai-1 2.400kV Paricha-Mainpuri 2 3.400kV Unit#5 of Paricha TPS 4.400kV Unit#6 of Paricha TPS 5. 400/220kV 315MVA ICT-1 at Orai	UP	06-May-17	17:32	06-May-17	19:03	01:31	400/220kV 315MVA ICT-1 of ORAI station tripped by DEF (directional earth fault). Lines were ended up with lightly loaded, resulted into tripping of 400kV ParichaTPS-Orai-1 and 400kV Paricha-Mainpuri ckt-2 on over voltage and Unit#5 & #6 of Paricha tripped due to Boiler tube leakage.	500	NIL	GD1	Nil
5	NR	1.220 kV Bareily Shahjpur 2.220 kV Bareily Pantnagar 3.315MVA ICT 1 &2 of Bareily	UP	08-May-17	14:36	8-May-17	15:30	00:54	Bus side Y phase conductor of 220kV Bareilly-CB ganj line snapped at Bareilly station, leads to tripping of all 220kV Lines by EF (earth fault). From PMU fault clearing time observed as approx 500msec.	NIL	300	GD1	0.135
6	NR	1.220kV Chhajpur-Panipat 2 2.220kV Panipat (Thermal)-Panipat 4 3.100MVA 220/132kV ICT 2	Haryana	09-May-17	22:10	9-May-17	23:02	00:52	220kV bus bar protection operated for bus-2 at 220kV Panipat (BBMB). It resulted into multiple element tripping. As per PMU and DR details, it seems fault was in Y-phase.	NIL	NIL	GI1	NIL
7	NR	1.220kV Fatehpur-Unchahar Ckt 1 &2 2.220kV Fatehpur-Fatehpur PG ckt 1&2 3.220kV Fatehpur-Banda 4.220kV Fatehpur- Sirathu 5.220kV Fatehpur- Allahabad 6.160MVA 220/132kV ICT 1 & 2 tripped	UP	11-May-17	12:48	11-May-17	14:27	01:39	Y-phase CT of 220kV bus-coupler at 220kV Fatehpur (UP) got damage, 220kV bus bar protection was not in service at 220kV Fatehpur (UP). This bus fault resulted into tripping of 220kV connected lines from remote end.	NIL	NIL	GI1	NIL
8	NR	1.400kV Dulhasti-Kishenpur 2.400kV Dulhasti Unit #1, #2 & #3	NHPC/ POWERGRID	11-May-17	14:47	11-May-17	15:14	00:27	Y-phase to earth fault occurred on 400kV Kishenpur- Dulhasti Line. Line tripped in Z-2 from Dulhasti end and Z-1 from Kishenpur end and further successfully auto reclosed from Kishenpur end. As 3-phase tripping from Kishenpur end, all the running units also tripped due to loss of only evacuation path for generating units of Dulhasti HEP.	390	NIL	GD1	NIL

S.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 (in MU)
				Date	Time	Date	Time	Time					
9	NR	1.220kV Modak -Kota TPS lne 2.220kV Modak-Bhanpura 3.132kV Modak-Mandane 4.220/132kV 100MVA ICT 1	Rajasthan	13-May-17	20:11	13-May-17	20:30	00:19	As reported, 132kV R-phase CT (Current Transfromer) of 220/132KV ICT-1 bursted at Modak end. 220kV side circuit breaker of 220/132kV 100MVA ICT didn't trip. It resulted into tripping of 220kV lines from remote end of 220kV Modak.	NIL	86	GD1	0.014
10	NR	1.220 kV Dohna-CB Ganj line 2.220 kV Bareilly-CBGanj 3.220 kV CB Ganj-Tanakpur 4.220 KV CBganj-Badun 5.220 kV Rampur-CBGanj 6.220 kV Tanakpur-Sitarganj 7.220 kV CbGanj-Sitarganj	UP	13-May-17	09:09	13-May-17	10:21	01:12	220 kV Bareilly-CBGanj tripped on Y-N fault, all 220kV lines tripped from remote end. Because of the trippings of 220kV lines; 220kV Tanakpur, 220kV Sitarganj and 220kV Bareily went blackout.	56	270	GD1	0.27
11	NR	1.400kV Allahabad Rewa road-Banda line 2.400/220kV 315MVA ICT 1 3.220kV Banda-Banda(UP)	UP	14-May-17	23:57	15-May-17	03:53	03:56	400/220kV Banda station is newly commisioned.In antecedent condition, at 400/220kV Banda station, one bus bar was in service. Y-phase to earth fault occurred in 220kV Banda-Banda (UP) line leads to tripping of multiple elements. .	NIL	113	GD1	0.057
12	NR	1.200kV Bassi-IG nagar 2.220kV Heerapura-IG nagar	Rajasthan	14-May-17	00:18	15/27/2017	12:57	12:39	Phase to phase fault occurred on 200kV Bassi-IG nagar and 220kV Heerapura-IG nagar. From PMU, two different dips with an interval of 500msec and fault cleared within 100msec	NIL	160	GD1	0.08
13	NR	1.220kV Kishenpur-Salal 1 2.220kV Kishenpur -Salal 2,3,4 3.ICT 1,2,3 4.220kV Kishenpur-Sarna 1,2 5.220kV Kishenpur-Udhampur 1,2 6.220kV Kishenpur-Barn 1, 2	NHPC/ POWERGRID	15-May-17	18:06	15-May-17	18:10	00:04	220kV Bus Bar-1 at Kishenpur station was under outage. During shifting of 220kV Kishenpur-Sarna ckt-2 through transfer bus, DT received at 220kV Kishenpur end. At the same time LBB protection for 220kV Bus Bar-2 also mal-operated and resulted into complete outage of 220kV side of 400/220kV Kishenpur (PG). Complete station outage also occurred at 220kV Salal HEP due to evacuation constraint.	NIL	500	NIL	0.03
14	NR	1.400/220kV Gurgaon 315MVA ICT-1 2.400/220kV Gurgaon 315MVA ICT- 2	POWERGRID	16-May-17	14:37	16-May-17	16:16	01:39	400/220kV ICT-2 tripped on differential protection at 14.37 Hrs & 400/220 kV ICT-1 tripped on overcurrent at 14.38 Hrs. From PMU, Fault clearing time is around 1second.	NIL	500	GD1	0.25
15	NR	1.400kV Mainpuri-Orai 1 2.400kV Mainpuri-Paricha 1 3.400kV Orai-Paricha TPS 1	UP	17-May-17	13:51	Yet to be revived			Tower Collapsed, 400kV Mainpuri-Orai, 400kV Mainpuri-Paricha and 400kV Orai-Paricha TPS tripped on earth fault.	NIL	NIL	GI2	NIL
16	NR	1.220 kV Nalagarh-Mohali 1 2.220 kV Nalagarh-HPSEB-2 3.220 kV Nalagarh-Chhaur 4.220kV Nalagarh-UTI 1 & 2 5.400/220kV ICT 1,2,3 at Nalagarh tripped.	POWERGRID	18-May-17	12:55	18-May-17	13:08	00:13	Maloperation of Isolator switching caused Bus to Earth fault at 220kV side of 400/220kV Nalagarh station. Bus Bar Protection operated after some time delay. All 220kV lines tripped either from remote end or in reverse zone protection from 220kV Nalagarh end. 400/220kV 315MVA ICT's tripped on back up over current earth fault protection. From PMU, the fault clearing time observed around 500msec.	NIL	NIL	GI2	NIL

S.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 (in MU)
				Date	Time	Date	Time	Time					
17	NR	1.400kV Rihand-Singrauli ckt-1&2 2.400kV Rihand-Allahabad ckt-1&2 3.HVDC Rihand-Dadri Pole-1&2 4.500MW Unit-1,2,3,4,5,6 at Rihand 5. HVDC Rihand-Dadri Bipole	NTPC/ POWERGRID	18-May-17	08:11	18-May-17	10:27	02:16	Y-N fault in 400kV Rihand-Singrauli ckt-1. At the same tim e 400kV Rihand-Sngrauli ckt-2 tripped due to mal-operation of distance protection. 400kV Rihand-Allahabad ckt-2 tripped from Allahabad(PG) end due to mal-operation of stub protection and senstivie current setting. Finally 400kV Rihand-Allahabad ckt-1 tripped from Rihand end in Z-1 during POWER SWING. . With the loss of major power carrying path yielded tripping of all Rihand generating units on Over speed/turbine inter trip. HVDC Rihand-Dadri Bipole also tripped on loss of AC sorce supply at Rihand end.	2730	NIL	GD1	NIL
18	NR	1.400kV Agra (UP)-Fathehabad (765/400kV) UP ckt- 2 2. 400kV Fatehabad (765/400kV) (UP)-Mathura (UP) ckt-1	UP/ POWERGRID	19-May-17	09:52	19-May-17	10:43	00:51	400kV Agra (UP)-Fathehabad (765/400kV) UP ckt-2 and 400kV Fatehabad (765/400kV) (UP)-Mathura (UP) ckt-1 tripped on blue-phase to earth fault From PMU, two faults observed, max dip in blue-phase, fault clearing time around 80msec!.	NIL	NIL	GI2	NIL
19	NR	1.400kv Agra-Kanpur 2.220kV Kanpur-Raina 1	POWERGRID	19-May-17	11:06	19-May-17	11:20	00:14	400kv Agra-kanpur and 220kV Kanpur-Raina 1 tripped during B-N (blue-phase) fault. From PMU, three faults observed max dip in B phase, fault clearing time approx 80msec	NIL	NIL	GI2	NIL
20	NR	1.400kV Aligarh-Sikanderpur 2.400kVAligarh- Panki	UP	19-May-17	11:58	19-May-17	13:31	01:33	400kV Aligarh-Sikanderpur and 400kVAligarh- Panki during B-N (blue-phase) fault. From PMU, two faults observed ; B phase fault clearing time approx 80msec whereas other fault cleared after 300msec!	NIL	NIL	GI2	NIL
21	NR	1.765kV Anta-Phagi ckt 1&2 2.765kV Gwalior(PG)-Phagi-1 &2 3.400kV Chabra-Kawai 4.400kV Bhilwara-Chhabra 5.400kV Chabra-Hindaun 6.400kV Anta-Kalisindh-1&2 7.400kV Anta-Kawai-1&2 8.250MW Chhabra TPS unit 1&4 9.650MW Kawai TPS unit 1&2 10.600MW Kalisindh TPS unit 2	Rajasthan	20-May-17	20:06	20-May-17	20:50	00:44	765kV Anta-Phagi ckt-2 tripped at 18:50hrs on Blue phase to earth fault. While charging 765kV Anta-Phagi ckt-2 at 20:06hrs, the other parallel circuit 765kV Anta-Phagi ckt-1 also tripped, resulting in evacuation constraint. As a result, the running generation at Kawai, Kalisindh, and Chabra tripped.	2500	250	GD1	0.092
22	NR	1.400KV Bawana(DTL)-Dipalpur(HVPNL) 2.400KV Bawana(DTL)-Mandola(PG) 1 3.400KV Bawana-Bawana(GT) 2 4.400KV Abdullapur(PG)-Bawana(DTL) 1 5.400/220kV 315MVA ICT-1 & 2 Bawana (DTL) 6. 400kV Bawana-Mandola ckt-1&2 7. 400kV Bawana-CCGT - Bahadurgarh	Delhi/Haryana	21-May-17	16:43	21-May-17	17:59	01:16	A demand crash of around 10GW was observed in the northern region on account of rain with thunderstorm. At 16:47hrs, All lines emanating from 400 kV Bawana substation tripped on R N fault. From PMU, fault clearing time of the lines tripped by R phase to earth fault around 300msec!	302	256	GD1	0.16
23	NR	1.132kv Dechu-Dechu Inter-connector 1&2 2.132kV Dechu-Phalodi ckt 1 3.132kV Dechu-Jaisalmer 4.132kV Ramgarh-Jaisalmer ckt-1&2 5.132kV Dechu Jaisalmer	Rajasthan	22-May-17	09:12	23-May-17	11:10	01:58	Tripping occurred on 220kV/132kV wind feeders, leads to loss of Wind generation.Ramgarh TPS units(150MW) were also connected to same path leads to loss of cummulative 600MW. From PMU, fault clearing time was around 600msec	660	NIL	GD1	NIL

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				Date	Time	Date	Time	Time					
24	NR	1.Rihand(NTPC)-Singrauli(NTPC) 1 2.Rihand-Dadri Pole 2	NTPC/ POWERGRID	27-May-17	00:47	29-May-17	02:49	02:02	Tie bay Y-phase CT blasted at NTPC Rihand leads to tripping of multiple lines. From PMU, severe dip observed in Y phase around(100kV)	NIL	NIL	GI2	NIL
25	NR	1.400kV Allahabad-Panki 2.400kV Kanpur-Panki 3.400KV Algarh-Panki 4.440/220kV 240MVA ICT 1 Panki	UP	27-May-17	03:12	27-May-17	05:02	01:50	LA and CT of 400/220kV 240MVA ICT -2 blasted at Panki. It resulted into tripping of multiple lines by earth fault. From PMU, two severe dip observed in R phase around(200kV).	NIL	500	GD1	0.25
26	NR	1.220/132kV Rai Bareilly 100 MVA ICT-1 2.220/132kV Rai Bareilly 100 MVA ICT-2 3.220/132kV Rai Bareilly 100 MVA ICT-3	PGCIL	27-May-17	06:33	27-May-17	07:35	01:02	Faault was in 132kV Amava(UP)-Trifala(UP) line. 220/132kV 100MVA ICTs at Rai Bareilly(PG) tripped on directional over current protection. From PMU, fault clearing time around 4sec	NIL	NIL	GI1	NIL
27	NR	1.765kv Fatehabad-Lalitpur ckt 1&2 2.220kV Paricha-Bharthana 3.220kv Paricha-Orai ckt 1, 2,3 4.220kV Paricha-Jhansi 1,2 5.220kV Jhansi-Lalitpur ckt 1, 2 6.220kV Lalitpur-Laltipur ckt 1 &2 7.220kV Orai-kanpur 8. Unit-1,2 (660MW) at Lalitpur TPS 9. Unit-2 (110MW),3&4 (210MW) ,5&6 (250MW) of Parichha TPS	UP	29-May-17	06:40	29-May-17	10:30	03:50	765kV Fatehabad 765(UP)-Lalitpur TPS 2 tripped by phase to earth fault.Due to loss of major evacuation path, Lalitpur TPS and Paricha TPS Units were also tripped. From PMU, multiple dips observed, and fault clearing time approx 500msec	1362	300	GD1	0.45
28	NR	1. 220kV Salal Unit 1, 2, 3, 4,5,6 2.220kV Salal -Jammu ckt 1 &2	NHPC/ POWERGRID	28-May-17	19:58	28-May-17	23:00	03:02	Three phase fault occurred near 220kV salal station leads to tripping of all lines. Resulted, fall in terminal voltage of Salal generating ststion below 70% and tripped all its Generating units by dead machine protection	660	NIL	GD1	NIL
29	NR	1.400kV Dhuri-Rajpura (PSTCL) ckt 1 & 2 2.500MVA ICT 1 of Dhuri	PUNJAB	29-May-17	12:27	29-May-17	14:05	01:38	400kV side main bay Blue phase CT of 400/220kV 500MVA ICT-1 at Dhuri station damaged. It resulted into bus fault for 400kV Dhuri but 400kV Dhuri-Rajpura ckt-1 & 2 also tripped at the same time. From PMU, Blue phase max dip observed and fault clearing time around 200msec	NIL	300	GD1	0.15
30	NR	1. 400 KV Ratangarh- STPS CKT-2 2. 400 KV Ratangarh- Merta 3. 400 KV Ratangarh- Sikar-1&2 4. 400/220kV ICT 1,2,3 5. 220kV Ratangarh-Sikar ckt-1&2 6. 220kV Ratangarh-Khetri ckt-1&2	Rajasthan	29-May-17	02:17	29-May-17	05:45	03:28	Due to heavy storm, BPI (Bus Post Insulator) of 400kV Bus-B damaged caused Bus fault in Ratangarh station. However bus bar protection was not in service at 400kV Ratangarh station. With absence of Bus bar protection in Ratangarh station, all 400kV lines tripped from remote end (Zone 2). 400/220kV ICTs tripped on backup over current earth fault protection. Four 220kV (Sikar ckt-1&2 and Khetri ckt-1& 2) lines also tripped in Z-3 from remote end.	NIL	NIL	GI2	NIL
31	NR	400/220kV Muzaffarnagar 315MVA ICT 1 400/220kV Muzaffarnagar 240MVA ICT 2 400/220kV Muzaffarnagar 315MVA ICT 3	UP	31-May-17	12:54	31-May-17	13:48	00:54	Mal operation of ICT protection occurred while working on ICT cooling fans leads to tripping of all three 400/220kV ICTs at Muzaffarnagar (UP)	NIL	450	GD1	0.225

List of Grid Incidents during May 2017_WR

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 Unserved (MU)
				Date	Time	Date	Time	Time					
1	WR	Tripping of 1. 400kV Kolhapur(PG)-Mapusa-1 2. 400kV Kolhapur(PG)-Mapusa-2 3. 400kV Kolhapur(PG)-Kolhapur-1 4. 400kV Kolhapur(PG)-Kolhapur-2 5. 400kV Kolhapur(PG)-Kodghi-1 6. 220kV Tillari-Amona 7. 220kV Mahalaxmi-Amona due to faults and thunder storm	POWERGRID	05-05-2017	18:37	05-05-2017	18:54	00:17	Due to faults and thunder storm	Nil	400	GD-1	0.025
2	WR	Tripping of 1. 400kV Kolhapur(PG)-Mapusa-1 2. 400kV Kolhapur(PG)-Mapusa-2 3. 220kV Tillari-Amona 4. 220kV Mahalaxmi-Amona	POWERGRID/ MSETCL	06-05-2017	19:15	06-05-2017	19:18	00:03	Due to phase to earth faults	Nil	250	GD-1	0.001
3	WR	Tripping of 1.400KV Jabalpur - Jhabua II 2.600 MW Jhabua Unit 1	Jhabua Power Limited	07-05-2017	17:36	07-05-2017	19:40	02:04	Already 400 kV Jabalpur - Jhabua I is tripped due to earth fault and tripping of the second circuit on Earth fault leads to loss of Evacuation path	550	NIL	GD-1	NIL
4	WR	Tripping of 1. 400KV Satna-JP NIGRI circuit-I 2. 400KV Satna-JP NIGRI circuit-II 3. 765KV SATNA-GWALIOR-II 4. 765KV SATNA BUS-II 5. 220KV SATNA-SATNA-I 6. 220KV SATNA-SATNA-II 7. 220KV SATNA-SATNA-III 8. JP Nigrie U#1 9. JP Nigrie U#2	POWERGRID/ MPPTCL	09-05-2017	16:19	09-05-2017	17:06	00:47	Heavy winds reported near satna area and several 765kv/400kv/220kv lines tripped on various single phase faults	1083	400	GD-1	0.0837
5	WR	Tripping of 1.400KV Jabalpur - Jhabua I 2.400KV Jabalpur - Jhabua II 3.600MW Jhabua Unit 1	Jhabua Power Limited	12-05-2017	13:39	12-05-2017	15:04	01:25	Tripping of the 400 kV Jabalpur - Jhabua D/C on Earth faults leads to loss of Evacuation path	550	NIL	GD-1	NIL
6	WR	Tripping of 1.220 kV Gadchandur-Virur-I 2. 220 kV Gadchandur-Virur-II 3. 220 kV Gadchandur-Grav	MSETCL	13-05-2017	23:44	14-05-2017	00:20	00:36	Earth wire fallen on ckts resulting in fault	Nil	60	GD-1	0.0095
7	WR	Tripping of 1. 400 kV Aurangabad –Bhusawal S/C 2. 400 kV Aurangabad –Bableshwar S/C 3. 400 kV Aurangabad –Aurangabad(PG)-II 4. 400 kV Aurangabad –Pune(PG)-I 5. 400 kV Aurangabad –Taptitanda 6. 400 kV Aurangabad –Deepnagar 7. 400/220 ICT-I at Aurangabad 8. 400/220 ICT-II at Aurangabad 9. 400 kV Aurangabad Main bus-II	MSETCL	19-05-2017	10:56	19-05-2017	11:53	00:57	Bus bar protection of Main Bus-II optd at 400kV Aurangabad(MSETCL) S/S and all the connecting elements tripped due to blasting of Y-Phase Circuit Breaker of 400kV feeder Aurangabad(MSETCL) –Bhusawal (MSETCL) S/C occurred.	Nil	Nil	GI-2	Nil

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				Date	Time	Date	Time	Time					
8	WR	Tripping of 1.400kV Ektuni-Bableshwar-II 2. 400kV Dhule-Bableshwar-I 3. 400kV Dhule-Bableshwar-II 4. 400kV Bableshwar-Padghe-I 5. 400kV Bableshwar-Padghe-II 6. 400kV Bhusawal-Bableshwar S/C 7. 400kV Aurangabad-Bableshwar S/C 8. 400/220kV ICT-1 at Bableshwar 9. 400/220kV ICT-2 at Bableshwar 10. 400/220kV ICT-3 at Bableshwar 11. 400/220kV ICT-4 at Bableshwar 12. 400kV Bus-1 at Bableshwar 13. 400kV Bus-2 at Bableshwar	MSETCL	25-05-2017	16:30	25-05-2017	17:35	01:05	Bus isolator of 400/220kV ICT-4 at Bableshwar fell down and created Bus fault	Nil	900	GD-1	0.225
9	WR	Tripping of 1.500 MW VSTPP Unit : 8 2.500 MW VSTPP Unit : 9 3.500 MW VSTPP UNIT :10 4.400 KV Vindhyachal – Jabalpur- I 5.400 KV Vindhyachal – Satna- III 6.400 KV Vindhyachal – Satna- IV 7. 500 kVHVDC Vindhyachal Block –I	NTPC / POWERGRID	23-05-2017	17:43	23-05-2017	19:02	01:09	Tripping of VSTPS Unit Number 8 on Differential protection of Generator Transformer and at the same time multiple trippings happened around VSTPS	1400 MW	Nil	GI-2	Nil
10	WR	Tripping of 1.220KV Raita – Gurur 2.220KV Raita - Siltara 3.220KV Bhilai – Khedamara I 4.220KV Bhilai – Khedamara II 5.220KV Bhilai – Raipur PG	CSEB	25-05-2017	20:35	25-05-2017	20:59	00:24	Tripping of Bhilai -Khedamara I & II causes the interupption of power	Nil	740	GD-1	0.296
11	WR	Tripping of 1. HVDC Champa-Kurushetra Pole-1 2. 400 kV KWPCL-Raigarh PS(Kotra)-II 3. 400 kV Kotra(PS)-Lara-I & II 4. 400 kV SKS-KOTRA-II 5. 400 kV DB Power-Kotra-I & II	POWERGRID / DB Power/ NTPC /SKS	27-05-2017	18:35	27-05-2017	19:15	00:40	Tripping due to Heavy wind and bad weather condition at Kotra.	Nil	Nil	GI-2	Nil

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

List of Grid Incidents during May 2017_SR

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration (Hrs)	Event *(As reported)*	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Energy Unserved (MU)
				Date	Time	Date	Time	Time					
1	SR	1) 230KV Neyveli-Villianur 2) 230kV Pondy-Villianur 3) 230/110 ICT-1&2 at Vilianur	Pondycherry	19-May-17	12:35	19-May-17	13:35	1.17	Triggering incident was failure of CT in 110kV Villianur-Kurumbapet at Villianur substation. 230KV Neyveli-Villianur and Pondy-Villianur Line got tripped from pondy and NLC ends on operation of DEF and Zone-3 respectively resulting in loss of supply to 230kV Villianur substation	0	140	GD 1	---
2	SR	1) 400kV NCTPS-SVChatram-1 2) 400kV NCTPS-Alamathy-1 3) 400kV NCTPS-Alamathy-2 4) North Chennai TPS STG2 Unit-2	APTRANSCO/ POWERGRID/ ANDHRAPRADESH	31-May-17	17:44	31-May-17	19:22	1.63	Complete outage of 400kV Uruvakonda and Jamalamadugu Stations. Triggering incident was tripping of 400kV Kurnool-Narnoor line-1 & 2 and 400kV Kurnool-Jamalamadugu line-2 which led to loss of supply loss to 400kV Uruvakonda and Jamalamadugu. 400kV Gooty-Narnoor, 400kV Narnoor-Jamalamadugu-1, 400kV Srisailam-Narnoor, 400kV Uruvakonda-Mahboobnagar-1&2 were out of service in antecedent condition.	500	Nil	GD-1	---
3	SR	1) 400kV Guttur-Hiryur-1&2 2) 400kV Guttur- Narendra-1&2 3) 400kV Guttur- Kaiga-1&2 4) 400kV Guttur-JSWEL	KPTCL/ Karnataka	20-May-17	20:41	20-May-17	21:15	0.56	All 400kV elements were kept on 400kV Bus-2 as 400kV Bus-1 was under shutdown for carrying out works on ICT-1 Bus-isolator. Trip got extended to trip bus of 400kV bus-bar-2 while isolating the LBB trip during relay retrofitting work of ICT 1 resulting in tripping of 400kV lines connected to Guttur- Kaiga-1&2, 400kV Guttur-Narendra-1&2, 400kV Guttur-Hiryur-1&2, 400kV Guttur-JSWEL. No fault was observed from PMU data plots.	NiL	Nil	GI-2	Nil
4	SR	1) 220kV lines at Guttur 2) 400kV ICT-2 at Guttur	KPTCL/ Karnataka	29-May-17	12:31	29-May-17	12:44	0.22	All 220kV elements were kept on 220kV Bus-2 as 220kV Davangare line-1 was kept on Bus-coupler CB due to problem line breaker. 220kV Bus-2 Bus bar protection operated during the test charge of 220kV IPP Jogihally line leading to tripping of all 220kV lines & 400/220kV ICT-2 at Guttur. Hence suspected mal-operation of Busbar protection had caused tripping of 220kV Bus-2 at Guttur	NiL	Nil	GI-1	Nil

List of Grid Incidents during May 2017_ER

Sl. No.	Region	Name of major elements	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time						
1	ERLDC	220 kV Biharshariff - Fatuah D/C	BSPTCL	3-May-17	11:45	3-May-17	12:03	00:18	220 kV Patna - Fatuah S/C and 220 kV Fatuah - Sipara S/C were not in service. Fatuah was radially supplied from Biharshariff. At 11:45 hrs, 220 kV Biharshariff - Fatuah D/C tripped on Y-B phase fault. Radial connected load at Gaighat, Mithapur, Harnaut, Baripahari etc. was shed due to lost of power supply.	0	290	0.000	0.087	GD - I
2	ERLDC	220 kV Balasore – Baripada – II 220 kV Balasore – Baripada – I 220 kV Balasore – New Duburi S/C 220 kV Balasore – Bhadrak S/C 220/132 kV ATR I & II at Balasore	OPTCL	3-May-17	17:15	3-May-17	17:23	00:08	At 17:14 hrs, B-N fault occurred at 220 kV Balasore – Baripada – II which tripped from Baripada end only. As fault was being fed from Balasore end, other 220 kV feeders i.e. 220 kV Balasore – Baripada – I (from Baripada), 220 kV Balasore – New Duburi S/C (from New Duburi) and 220 kV Balasore – Bhadrak S/C (from Balasore) along with 220/132 kV ATR I & II (from 132 kV) at Balasore tripped to clear the fault.	0	174	0.000	0.029	GD - I
3	ERLDC	220 kV Chukha-Birpara-D/C 220kv Birpara-Malbase S/C	ISTS	6-May-17	15:39	6-May-17	16:29	00:50	220 kV Chukha - Malbase S/C was under s/d. At 15:39hrs, 220 kV Chukha-Birpara-D/C tripped on R-Y phase fault (dist. 46.8km & 45.5km respectively from Birpara) which resulted tripping of all running units at Chukha due to loss of evacuation path. At same time, 220kv Birpara-Malbase S/C also tripped from Malbase end.	74	0	0.062	0.000	GD - I
4	ERLDC	220/132 kV ATR at Kishangunj 132 kV Purnea - Kishangunj S/C 220/132 kV ATR at Madhepura	BSPTCL	10-May-17	20:45	10-May-17	21:35	00:50	At 20:45 hrs 220/132 kV ATR at Kishangunj & 220/132 kV ATR at Madhepura tripped due to O/C. At same time, 132 kV Purnea - Kishangunj S/C tripped from Purnea end on O/C.220/132 kV ATR - I at Kishangunj was connected through TBC. During connection, master trip relay (86A & 86 B) for main transformer protection panel was not reset. LBB was set at 0.2 A & CT ratio was 1600/1. When current increased more than 320 A through ATR - I, BB/LBB Peripheral unit (installed at 220 kV relay paned) sent trip signal to BB/LBB central unit resulting tripping of all units connected to TCB.After tripping of ATR - I, ATR - II tripped due to O/C protection. After tripping of both ICTs at Kishangunj, 132 kV Supaul - Kataiya(from Supaul) and 132 kV Purnea - Kishangunj (from Purnea) tripped on O/C	0	450	0.000	0.375	GD - I
5	ERLDC	400 kV Teesta III – Rangpo S/C	ISTS	11-May-17	08:28	11-May-17	08:59	00:31	At 08:28.20.861 hrs, 400 kV Teesta III – Rangpo S/C tripped due to operation of differential protection (87C) at Teesta III end. Breakers at Rangpo end opened at 08:28.21.410 hrs after receiving DT from Teesta III end. In PMU data, R-N fault has been observed. Distance protection at Rangpo end did not sense any type of fault at the time of incident. All running units (2,3 &6) tripped due to loss of evacuation path	300	0	0.155	0.000	GD - I
6	ERLDC	400 KV DSTPS - RTPS D/C 400 KV DSTPS - Jamshedpur D/C	DVC	12-May-17	13:00	12-May-17	13:22	00:22	Due to operation of B/B protection, both buses along with all running units and outgoing feeders tripped resulting total power loss at DSTPS.	873	0	0.320	0.000	GD - I
7	ERLDC	132 kV Arrah - Arrah S/C	BSPTCL	13-May-17	09:20	13-May-17	10:47	01:27	At 09:20 hrs tripping of 132 kV Arrah - Arrah S/C due to R-N fault (Z-I from PG end) during heavy storm resulted load loss at radially fed areas	0	45	0.000	0.065	GD - I
8	ERLDC	132 kV Adityapur - Rajkarswan S/C 132 kV Chandil - Rajkarswan S/C	JUSNL	13-May-17	13:37	13-May-17	13:49	00:12	132 kV Adityapur - Rajkarswan S/C and 132 kV Chandil - Rajkarswan S/C tripped due to Y-B fault resulting total loss of power supply at Rajkarswan.	0	60	0.000	0.012	GD - I
9	ERLDC	400 kV HEL - Subhasgram D/C	WBSETCL	13-May-17	16:29	13-May-17	16:51	00:22	At 16:29 hrs 400 kV HEL - Subhasgram - I tripped due to B-N fault. At same time, 400 kV HEL - Subhasgram - II tripped on O/V at HEL (DT received at Subhasgram). Both the running units at HEL tripped due to loss of evacuation path.	460	0	0.169	0.000	GD - I
10	ERLDC	220 kV Joda – TTPS D/C 220 kV Joda Ramchandrapur S/C 220 kV Jamshedpur (DVC) – JSPL S/C	OPTCL	13-May-17	22:08	13-May-17	22:47	00:39	At 22:08 hrs 220 kV Joda – TTPS D/C tripped from both ends on D/P (Z-I at TTPS end and Z-II at Joda end). At same time, 220 kV Ramchandrapur – Joda S/C tripped from Ramchandrapur end on R-N fault and 220 kV Jamshedpur (DVC) – Jindal S/C tripped from Jamshedpur end on O/C protection.	0	135	0.000	0.081	GD - I
11	ERLDC	400 kV Rangpo – Teesta III S/C	ISTS	15-May-17	16:09	15-May-17	16:23	00:14	At 16:09 hrs 400 kV Rangpo – Teesta III S/C tripped from both ends (Teesta III end: O/C, E/F Ir = 0.9 kA, Iy = 1.3 kA, Ib = 1.2 kA; Rangpo end: DT received) resulting in tripping of all running units (Unit #I, #III, #IV, #V & #VI) at Teesta III due to loss of evacuation path. In PMU data, B phase fault has been observed at same time. Fault clearing time is less than 100 ms	0	800	0.000	0.187	GD - I
12	ERLDC	220 kV Subhasgram (WB) – Kasba D/C 220 kV Subhasgram – Subhasgram – D/C	WBSETCL	17-May-17	06:28	17-May-17	06:45	00:17	At 06:28 hrs 220 kV Subhasgram – Subhasgram D/C tripped due to Y phase LA failure (of Circuit II) at PG end (Circuit I tripped from PG end on Z-II). At the same time, 220 kV Kasba – Subhasgram (WB) tripped from Kasba end on Z-II. Due to loss of both supply (Subhasgram (PG) and Kasba), 220/132 kV Subhasgram (WB) s/s became dead and load loss occurred at Lakhikantapur, Sirakol, Falta & Kakdeep.	0	300	0.000	0.085	GD - I
13	ERLDC	220 kV Katapalli – Lapanga D/C 220 kV Katapalli – Bolangir (PG) S/C 220 kV Bolangir (PG) – New Bolangir S/C 220 kV Katapalli – Hindalco D/C 132 kV Katapalli – Burla D/C 132 kV Katapalli – Chiplima D/C 132/33 kV ATR II & III	OPTCL	18-May-17	23:48	19-May-17	00:06	00:18	At 23:48 hrs due to CT burst at 33 kV level of 220/132/33 kV Katapalli S/S, 220 kV Katapalli – Lapanga D/C, 220 kV Katapalli – Bolangir (PG) S/C, 220 kV Bolangir (PG) – New Bolangir S/C, 220 kV Katapalli – Hindalco D/C, 132 kV Katapalli – Burla D/C, 132 kV Katapalli – Chiplima D/C along with 132/33 kV ATR II & III at Katapalli tripped resulting loss of power supply at Katapalli S/S	0	140	0.000	0.036	GD - I

Sl. No.	Region	Name of major elements	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time						
14	ERLDC	220 kV Farakka Lalmatia S/C 132 KV Kahalgaon(BSPTCL) - Lalmatia S/C 132 KV Kahalgaon(NTPC)-Lalmatia S/C	JUSNL	21-May-17	16:39	21-May-17	16:57	00:18	At 16:39 hrs 220 kV Farakka Lalmatia S/C (O/C E/F protection F/C 4.68 kA in B phase at Farakka), 132 KV Kahalgaon(BSPTCL) - Lalmatia S/C & 132 KV Kahalgaon(NTPC)-Lalmatia S/C (B-N, 88.7 km from KhSTPP but line did not trip from NTPC end) tripped resulting total loss of power supply at Lalmatia & Sahebgunj. Load at Dumka got survived as it was radially fed from Maithon.	0	80	0.000	0.024	GD - I
15	ERLDC	132 kV CTPS - Putki Q/C 220/132 kV ATR - I, II & III at CTPS	DVC	23-May-17	14:50	23-May-17	15:25	00:35	At 14:50 hrs 132 kV CTPS - Putki Q/C, 220/132 kV ATR - I, II & III at CTPS, along with U #2, #7 & #8 at CTPS tripped resulting total loss of power supply at CTPS. In PMU data, more than one voltage dip has been observed in B phase at the time of the disturbance. Inclement weather was reported around CTPS.	500	300	0.292	0.175	GD - I
16	ERLDC	132 KV Lakhisarai-Jamui D/c	BSPTCL	25-May-17	13:28	25-May-17	14:31	01:03	At 13:20 hrs, 132 KV Jamui-Seikhpur S/C tripped from both ends (At Seikhpur it tripped at 13:22 hrs). During Charging of 132 KV Jamui-Seikhpur S/C at 13:28 hrs, 132 KV Lakhisarai(PG) –Jamui D/C tripped from Jamui end, At 13:36 hrs 132 KV Lakhisarai(PG) –Jamui D/C were charged. During second charging attempt of 132 KV Jamui-Seikhpur S/C at 13:56 hrs, 132 kV Lakhisarai - Jamui D/C tripped again (Ckt I from PG end and Ckt II from both ends). At 14:25 hrs 132 kV Lakhisarai - Jamui D/C were charged again. 132 kV Jamui - Seikhpur S/C was charged at 19:19 hrs on 29-05-17.	0	30	0.000	0.032	GD - I
17	ERLDC	220 kV Chandil - Ranchi S/C 220 kV Chandil - Ramchandrapur S/C 220 kV Chandil - STPS S/C	JUSNL	26-May-17	15:34	26-May-17	15:53	00:19	Due to inclement weather condition, 220 kV Ranchi Chandil S/C tripped on R-N fault at 14:37 hrs and 220 kV STPS – Chandil S/C tripped on Y-N fault at 15:04 hrs. Total loss of power supply at Chandil occurred with tripping of 220 kV Ramchandrapur – Chandil S/C from Ramchandrapur end on R phase O/C at 15:34 hrs. Y phase conductor at location no. 308 of 220 kV Chandil – STPS line have snapped and fallen on the ground due to heavy lightning.	0	62	0.000	0.020	GD - I
18	ERLDC	132 kV NBU - TCF S/C 132 kV NBU - Ujanoo S/C 132 kV NBU - NJP (WB) S/C 132 kV NBU - NJP (PG) S/C 132 kV NBU - Lebong S/C 132 kV NBU - Rammam S/C	WBSETCL	29-May-17	17:12	29-May-17	17:23	00:11	Due to Y phase CT and CB burst at NBU end of 132 kV NBU - Rammam, all 132 kV feeders connected at NBU tripped due to operation of bus bar protection. AT NJP (PG) end B/U O/C E/F relay also tripped for 132 kV NBU - NJP (PG) S/C.	20	30	0.004	0.006	GD - I
19	ERLDC	B/C between main bus I & reserve bus at Kasba	WBSETCL	31-May-17	15:53	31-May-17	15:59	00:06	At 15:53 hrs CESC got desynchronized from Kasba end due to fault in 132 kV Kasba Salt Lake S/C.	0	40	0.000	0.004	GD - I
20	ERLDC	400 KV Meramundali Angul - I 400 KV Meramundali-New Duburi - I 400 KV Meramundali - SEL - II 400 KV Meramundali Mendhasal S/C 400/220 KV ICT - I at Meramundali (As per ERLDC SCADA data)	OPTCL	12-May-17	12:07	12-May-17	12:32	00:25	400 kV Meramundali – SEL – II was being taken shutdown. It was hand tripped from Vedanta end. But breakers at Meramundali end were not open. So LBB operated for bus – I and all main breakers connected to bus – I tripped. As per ERLDC SCADA data, power flow through 400 kV Mendasal – I, Angul – II, N. Duburi – I and SEL - II feeder along with 400/220 kV ICT – I at Meramundali (was connected to Bus – I through main breaker) became zero (data was not available for 400 kV GKEL & JSPL-I feeder) after the tripping of main breakers.	0	0	0.000	0.000	GI-II
21	ERLDC	400 kV Darbhanga - Muzaffarpur D/C 400/220 kV ICT - II at Darbhanga	ISTS	21-May-17	11:23	21-May-17	13:05	01:42	At 11:23 hrs bus differential protection of 400 kV main bus I & II at Darbhanga operated due to operation of gas compartment zone trip signal generated due to problem in hard wiring. As a result 400 kV Darbhanga - Muzaffarpur D/C and 400/220 kV ICT - II at Darbhanga (ICT - I under s/d) tripped resulting total loss of supply at Darbhanga.	0	0	0.000	0.000	GI-II
22	ERLDC	220 kV Chukha - Birpara - II 220 kV Birpara - Malbase S/C 220 kV Birpara - Alipurduar - II 220 kV Birpara - Siliguri - I 220/132 kV ATR at Birpara	ISTS	22-May-17	16:32	22-May-17	17:52	01:20	Due to operation of differential protection at bus - II at Birpara all elements connected to bus II i.e. 220 kV Chukha - Birpara - II, 220 kV Birpara - Malbase S/C, 220 kV Birpara - Alipurduar - II, 220 kV Birpara - Siliguri - I, 220/132 kV ATR at Birpara tripped from Birpara end.	0	0	0.000	0.000	GI-II
23	ERLDC	400 kV Meramundali - New Duburi - I 400/220 kV ICT - I at New Duburi	OPTCL	26-May-17	10:20	26-May-17	10:52	00:32	400 kV Meramundali - New Duburi - I & 400/220 kV ICT - I at New Duburi tripped due to operation of LBB operation of bus I at New Duburi.	0	0	0.000	0.000	GI-II
24	ERLDC	400 kV Biharshariff – Sasaram D/C 400/220 kV ICT at Sasaram HVDC Sasaram	ISTS	29-May-17	13:38	29-May-17	14:19	00:41	At 13:38 hrs, 400 kV Biharshariff – Sasaram D/C tripped due to R-N fault resulting pole-block of Sasaram HVDC link (On SPS operation). Due to no connectivity at 400 kV & 765 kV level, 400 kV & 765 kV bus were charged from 220 kV level through ICTs. As per PMU data, voltage at Sasaram became as low as 130 kV. Load at Arrah & Nandokhar was being fed from Patna (Patna – Sipara – Khagul – Arrah link). Both 400/220 kV ICTs also tripped at 14:02 hrs.	0	0	0.000	0.000	GI-II

List of Grid Incidents during May 2017_NER													
S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
1	NER	AGBPP Unit 2	NEEPCO	01-May-2017	00:03:00	01-May-2017	01:00:00	0:57:00	AGBPP unit 2 tripped at 00:03 Hrs on 01.05.17 due to tripping of Gas Compressor-2 . (Revision of schedule from Block No: 5 on 01.05.17)	65	0	0.062	GI-II
2	NER	PALATANA GTG-1, STG-1 and GTG-2, STG-2	OTPCL	03-May-2017	06:42:00	03-May-2017	07:45:00	1:03:00	Palatana GTG-1 tripped on 03.05.17 at 06:42 Hrs due to high exhaust spread/station transformer breaker 02 problem. Palatana STG 1 tripped at 06:42 Hrs due to DC Voltage Problem. Palatana GTG 2 and STG 2 tripped at 06:42 Hrs due to Generation protection Tripped . (Revision of schedule from Block No: 32 on 03.05.17)	486	0	0.510	GI-II
3	NER	PALATANA GTG-1 and STG-1	OTPCL	03-May-2017	12:04:00	03-May-2017	12:45:00	0:41:00	Palatana GTG 1 tripped at 12:04 Hrs on 03.05.17 due to DC Voltage Problem. Palatana STG 1 tripped at 12:05 Hrs on 03.05.17 due to Generator Prot. trip .(Revision of Schedule is from Block No.52 on 03.05.17)	227	0	0.155	GI-II
4	NER	KHANDONG Unit 1, 2 and Kopili ST2 Unit 1	NEEPCO	05-May-2017	13:00:00	05-May-2017	14:00:00	1:00:00	KHANDONG Unit 1 tripped at 13:00 Hrs on 05.05.17 due to operation of Class ABC protection,generator O/C, over-frequency and 60% overspeed . Kopili STG2 Unit tripped due to Class A and B protection and generation trip relay operation. (Revision of Schedule from Block No. 57 on 05.05.17)	90	0	0.090	GI-I
5	NER	AGTCCPP Unit 2 and AGTCCPP EXTN STG-1	NEEPCO	14-May-2017	02:59:00	14-May-2017	3:45:00	0:46:00	AGTCCPP Unit 2 and Extn STG-1 tripped at 02:59 Hrs on 14.05.17 due to Gas Detection High Level. (Revision of schedule from Block no:16 on 14.05.17)	18	0	0.014	GI-I
6	NER	AGTCCPP Unit 2	NEEPCO	17-May-2017	15:35:00	17-May-2017	16:30:00	0:55:00	AGTCCPP Unit 2 tripped at 15:35 Hrs on 17.05.17 due to low Control oil pressure. (Revision of schedule from Block no:67 on 17.05.17)	15	0	0.014	GI-I
7	NER	AGTPP EXTN Unit STG-1	NEEPCO	18-May-2017	06:12:00	18-May-2017	07:00:00	0:48:00	AGTCCPP STG-1 tripped at 06:12 Hrs on 18.05.17 due to High exhaust steam pressure. (Revision of schedule from Block no:29 on 18.05.17)	17	0	0.013	GI-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
8	NER	AGTPP Unit 3,4 & EXTN Unit STG-2	NEEPCO	20-May-2017	01:16:00	20-May-2017	02:00:00	0:44:00	AGTCCPP Unit-3, 4 & STG-2 tripped at 01:16 Hrs on 20.05.17 due to Cooling system failure. (Revision of Schedule from Block No: 9 on 20.05.17).	50	0	0.037	GI-I
9	NER	AGTPP EXTN Unit STG-2	NEEPCO	20-May-2017	12:27:00	20-May-2017	13:30:00	1:03:00	AGTCCPP Unit 2 tripped at 12:27 Hrs on 20.05.17 due to High Exhaust steam pressure. (Revision of schedule from Block no:55 on 20.05.17)	8	0	0.008	GI-I
10	NER	AGTCCPP Unit 4 and EXTN Unit STG-2	NEEPCO	23-May-2017	04:37:00	23-May-2017	05:30:00	00:53:00	AGTCCPP Unit 4 and STG-2 tripped at 04:37 Hrs on 23.05.17 due to high lub oil temprature. (Revision of schedule from Block no:23 on 23.05.17)	37	0	0.033	GI-I
11	NER	KHANDONG Unit 2	NEEPCO	28-May-2017	13:36:00	28-May-2017	14:45:00	01:09	Khandong Unit 2 tripped at 13:36 Hrs on 28.05.17 due to Rotor Earth Fault. (Revision of schedule from Block No. 60 on 28.05.17)	38	0	0.044	GI-I
12	NER	AGBPP Unit 2	NEEPCO	29-May-2017	15:30:00	29-May-2017	16:15:00	00:45	AGBPP unit 2 tripped at 15:30 Hrs on 29.05.17 due to cooling air fan motor problem. (Revision of schedule from Block No: 66 on 29.05.17)	28	0	0.021	GI-II
13	NER	KHANDONG Unit 2	NEEPCO	31-May-2017	12:29:00	31-May-2017	13:45:00	01:16:00	Khandong Unit 2 tripped at 12:29 Hrs on 31.05.17 due to operation of differential protection of GT. (Revision of schedule from Block no :56 on 31.05.17)	14	0	0.018	GI-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
14	NER	132 kV Nirjuli-Lekhi line	DoP, AP & POWER GRID	01-May-2017	02:08:00	01-May-2017	02:22:00	00:14:00	Nirjuli area of Arunachal Pradesh and Gohpur load of Assam were connected with rest of NER Grid through 132 kV Nirjuli-Lekhi line (Bus Coupler at Gohpur kept open for system requirement). At 02:08 Hrs on 01.05.2017, 132 kV Nirjuli-Lekhi line tripped. Due to tripping of this element, Nirjuli area of Arunachal Pradesh and Gohpur load of Assam were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	28	0.007	GD-I
15	NER	132 kV Aizawl- Zuangtui line	POWER GRID	02-May-2017	00:18:00	02-May-2017	00:35:00	00:17:00	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl-Zuangtui line. At 00:18 Hrs on 02.05.2017, 132 kV Aizawl- 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	18	0.005	GD-I
16	NER	132 kV AGTCCPP-Agartala I & II lines,AGTCCPP Unit 1, 3, 4 ,AGTCCPP Extn STG-1 and STG-2	POWER GRID	03-May-2017	10:20:00	3-May-2017	10:38:00	00:18:00	AGTCCPP Power Station was connected with rest of NER Grid through 132 kV AGTCCPP-Agartala I & II and 132 kV AGTCCPP-Kumarghat line. At 10:20 Hrs on 03.05.17, 132 kV AGTCCPP-Agartala I & II, 132 kV AGTCCPP-Kumarghat lines tripped . Subsequently, AGTCCPP Unit 1,3,4 , AGTCCPP Extn STG-1 and STG-2 tripped due to massive voltage jerk. Due to tripping of these element, AGTCCPP was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	94	0	0.000	GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
17	NER	132 kV Balipara- Khupi line	NEEPCO & DoP, AP	05-May-2017	16:02:00	05-May-2017	16:30:00	00:28:00	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 16:02 Hr on 05.05.2017, 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	28	0.013	GD-I
18	NER	132 kV Dimapur(PG)-Kohima line	POWER GRID	06-May-2017	12:54:00	06-May-2017	13:01:00	00:07:00	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur(PG)-Kohima line (132 kV Kohima-Karong line ; 132 kV Wokha-Kohima,66 kV Tuensang-Likimro line was kept open for system requirement). At 12:54 Hr on 06.05.2017, 132 kV Dimapur(PG)-Kohima line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	14	0.002	GD-I
19	NER	132 kV Udaipur-Palatana line & 132 kV Monarchak - Rokhia Line, Monarrchak GTG-1 & STG-1	TSECL, NEEPCO	07-May-2017	15:21:00	07-May-2017	15:35:00	00:14:00	Udaipur area and Rabindranagar area of Tripura was connected with rest of NER Grid through 132 kV Udaipur-Palatana line & 132 kV Monarchak - Rokhia Line. (66 kV Gakulnagar-Udaipur line ; 66 kV Belonia-Bagafa line kept open for system requirement). At 15:21 Hr on 07.05.17, 132 kV Udaipur-Palatana line, 132 kV Monarchak-Rokhia line, Monarchak GTG-1 and STG-1 units tripped. Due to tripping of these elements, Udaipur area and Rabindranagar was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch. Monarchak Power Station blacked out.	90	20	0.009	GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
20	NER	132 kV Rokhia-Monarchak line, Monarchak-GTG-I and STG-I, Rokhia Unit-9 and Gumti Unit-1	TSECL, NEEPCO	9-May-17	12:14:00	9-May-17	12:23:00	00:09:00	Udaipur area of Tripura was connected with rest of NER Grid through 132 kV Udaipur-Palatana line and 132 kV Monarchak-Rokhia line (66 kV Main & Transfer Bus segregated at 132/66 kV Rabindranagar, 66 kV Gakulnagar-Udaipur line & 66 kV Belonia-Bagafa line kept open for system requirement). At 12:14 Hrs on 09.05.2017, 132 kV Udaipur-Palatana line, 132 kV Rokhia-Monarchak line, Monarchak-GTG-I, Monarchak-STG-I, Rokhia Unit-9 and Gumti Unit-1 tripped. Due to tripping of these elements, Monarchak station and Udaipur area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	116	25	0.013	GD-I
21	NER	132 kV Balipara- Khupi line	NEEPCO	10-May-17	13:27:00	10-May-17	14:02:00	00:35:00	Khupi area of Arunachal Pradesh was connected with rest of NER Grid through 132 kV Balipara- Khupi line. At 13:27 Hrs on 10.05.2017 , 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	15	0.012	GD-I
22	NER	132 kV Monarchak-Rokhia, 132 kV Monarchak -Udaipur, Monarchak-GTG-I, Monarchak-STG-I Units	TSECL, NEEPCO	12-May-17	11:08:00	12-May-17	11:24:00	00:16:00	Monarchak area of Tripura was connected with rest of NER Grid through 132 kV Monarchak-Rokhia and 132 kV Monarchak-Udaipur line (66 kV Main & Transfer Bus segregated at 132/66 kV Rabindranagar for system requirement). At 11:08 Hrs on 12.05.2017, 132 kV Monarchak-Rokhia, 132 kV Monarchak -Udaipur, Monarchak-GTG-I, Monarchak-STG-I Units tripped. Due to tripping of these elements, Monarchak station was was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	95	5	0.001	GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
23	NER	132 kV Loktak-Jiribam line, Loktak Units 1,2 & 3	POWER GRID, NHPC	13-May-17	10:13:00	13-May-17	10:32:00	00:19:00	Loktak Power Station was connected with rest of NER Grid through 132 kV Loktak-Jiribam line. (132 kV Loktak-Imphal (PG) line was under planned Shutdown for stringing of 400 kV Yurembam - Thoubal line, 132 Rengpang - Jiribam(MA) is under long outage, 132 kV Imphal-Ningthonkhong line was kept open for system requirement) At 10:13 Hrs on 13.05.17, 132 kV Loktak-Jiribam line tripped. Loktak Unit 1, 2 and 3 eventually tripped due to over frequency. Due to evacuation problem, Loktak Power Station was blacked out. Rengpang and Ningthonkhong area separated from rest of NER Grid and subsequently collapsed due load-generation mismatch.	95	33	0.001	GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
24	NER	400 kV Silchar-Palatana 2 line, 132 kV AGTCCPP-Kumarghat line & 132 kV Agartala-Dhalabil line,Palatana GTG-I & II, STG-I & II, AGTPP Units 2,3,4,5&6	POWER GRID,NETC, NEEPCO, TSECL & OTPC	16-May-17	08:27:00	16-May-2017	08:40:00	00:13:00	Part of Tripura, Bangladesh(South Comilla), Palatana & AGTCCPP power systems were connected with rest of NER Grid through 400 kV Silchar-Palatana 2 line, 132 kV AGTCCPP-Kumarghat line & 132 kV Agartala-Dhalabil line (400 kV Silchar-Palatana 1 line was under shutdown w.e.f 0807 Hrs on 16.05.17; 132 Jirania-Baramura line was under shutdown, 66 kV Gumti-Amarpur and 66 kV Agartala – Baramura lines kept open for system Requirement). At 08:27 Hrs on 16.05.2017, 400 kV Silchar-Palatana 2 line tripped.This led to the overloading of 132 kV AGTCCPP-Kumarghat line & 132 kV Agartala-Dhalabil line and subsequently tripped on over current. Due to tripping of these elements, part of Tripura, Bangladesh(South Comilla), Palatana & AGTCCPP power systems were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch. However there was no power interruption in PK Bari, Kamalpur, Ambassa, Baramura, Dharmanagar,Gamatilla &Dhalabil substations of Tripura system.	638	72	0.227	GD-I
25	NER	132 kV Loktak-Ningthoukhong line	MSPCL	16-May-17	20:58:00	16-May-2017	21:12:00	00:14:00	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV Imphal(PG)-Ningthoukhong line & 132 kV Kakching-Kongba line kept open for system constraint). At 2058 Hrs on 16.05.17, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	33	0.011	GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
26	NER	132 kV Loktak-Ningthoukhong line	MSPCL	17-May-17	15:10:00	17-May-2017	15:26:00	00:16:00	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV Imphal(PG)-Ningthoukhong line & 132 kV Kakching-Kongba line kept open for system constraint). At 15:10 Hrs on 17.05.17, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	0.012	GD-I
27	NER	132 kV Doyang-Wokha and 132 kV Wokha-Kohima Line	DoP, Nagaland, NEEPCO	28-May-17	10:15:00	28-May-17	10:40	00:25:00	Capital area of Nagaland was connected with rest of NER Grid through 132 kV Doyang-Wokha line and 132 kV Wokha-Kohima Line.132 kV Dimapur-Kohima line was under outage since 11:48 Hrs on 27.05.17 due to falling of tree on this line. At 10:15 Hr on 28.05.2017 .132 kV Doyang-Wokha line tripped. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	10	0.004	GD-I
28	NER	132 kV Loktak - Ningthoukhong 1 Line	MSPCL	30-May-2017	12:04:00	30-May-2017	12:46:00	00:42:00	Ningthoukhong area of Manipur was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line (132 kV Imphal(PG)-Ningthoukhong line & 132 kV Kakching-Kongba line kept open for system constraint). At 12:04 Hrs on 30.05.17, 132 kV Loktak-Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0.014	GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
29	NER	132 kV Aizawl - Zungtui 1 Line	POWER GRID	30-May-2017	15:11:00	30-May-2017	15:35:00	00:24:00	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl-Zuangtui line. At 15:11 Hrs on 30.05.17, 132 kV Aizawl- 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	13	0.005	GD-I
30	NER	132 kV Aizawl - Zungtui 1 Line	POWER GRID	30-May-2017	16:00:00	30-May-2017	16:15:00	00:15:00	Zuangtui area of Mizoram was connected with rest of NER Grid through 132 kV Aizawl-Zuangtui line. At 16:00 Hrs on 30.05.17, 132 kV Aizawl- 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	11	0.002	GD-I
31	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) 2 Line	DoP, Nagaland	30-May-2017	17:44:00	30-May-2017	17:58:00	00:14:00	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA)II line. Dimapur(PG)-Dimapur(NA) I line is under outage At 17:44 Hr on 30.05.17 ,132 kV Dimapur (PG)-Dimapur (NA) II line tripped. Due to tripping of these elements, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area	0	39	0.029	GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event (Brief Details)	Generation Loss (MW)	Load Loss MW	Energy Unserved (MU)	Category as per CEA Grid Standards
				Date	Time	Date	Time						
32	NER	132 kV Dimapur (PG) - Dimapur (Nagaland) 2 Line	DoP, Nagaland	30-May-2017	19:28:00	30-May-2017	19:46:00	00:18:00	Dimapur area of Nagaland was connected with rest of NER Grid through 132 kV Dimapur (PG)-Dimapur (NA)II line. Dimapur(PG)-Dimapur(NA) I line is under outage At 19:28 Hr on 30.05.17 ,132 kV Dimapur (PG)-Dimapur (NA) II line tripped. Due to tripping of these elements, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area	0	23	0.016	GD-I
33	NER	132 kV Khliehriat (PG)-Khliehriat (MePTCL) I and II lines,132 kV Khandong-Khliehriat I and II lines, 132 kV NEHU-NEIGRIHMS line,132 kV Mustem-NEHU line, MHLEP Unit I, II and III		31-May-17	09:40:00	31-May-17	09:42	00:02:00	Khliehriat area of Meghalaya (Khliehriat, MLHEP , Lumshnong, Mustem & NEIGRIHMS substations) was connected with rest of NER Grid through 132 kV Khliehriat (PG)-Khliehriat (MePTCL) I & II lines and 132 kV 132kV Mustem- NEHU & 132 kV NEIGRIHMS- NEHU lines. (132 kV Lumshnong-Panchgram line kept open for system requirement). At around 09:36hrs 132kV Mustem- NEHU tripped . At 9:40 hrs, 132 kV Khliehriat(PG)-Khliehriat(MePTCL) I and II and 132 kV NEIGRIHMS- NEHU lines tripped . 132/33 kV, 2 x 20MVA transfomers at Khliehriat(ME) blasted and burnt at the same time. Due to tripping of these elements, Khleihriat area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	119	19	0.024	GD-I