



National Load Despatch Centre
POWER SYSTEM OPERATION CORPORATION LIMITED
(A Government of India Enterprise)
CIN No.: U40105DL2009GOI188682

B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Ref: POSOCO/NLDC/SO/Weekly Report

Date: 05th Jun 2020

To,

1. कार्यपालक निदेशक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
2. कार्यपालक निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
3. कार्यपालक निदेशक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र, अंधेरी, मुंबई - 400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यपालक निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यपालक निदेशक, द. क्षे. भा. प्रे. के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु - 560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Weekly Status Report 24th May-2020 to 30th May-2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, 24 मई-2020 से 30 मई -2020, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट राभाप्रेके की वेबसाइट पर निम्न लिंक पर उपलब्ध है :-

As per article 5.5.1 of the Indian Electricity Grid Code, the weekly status report pertaining power supply position report of All India Power System for the week 24th May-2020 to 30th May-2020 is available at the NLDC website.

Thanking You.

Yours faithfully,

Sr.DGM (SO)

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (24 मई 2020 से 30 मई 2020 तक)

रिपोर्टिंग तिथि:-

5-Jun-20

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मे०वा०)

दिनांक	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	आधिकतम कमी (मे०वा०)
24-05-2020	50592	515	42833		36510		18487		2173	298	150595	813
25-05-2020	51419	503	43471		37714		18322		2054	394	152980	897
26-05-2020	49385	456	44074		38044		18597		1640	637	151740	1093
27-05-2020	48159	417	43718		37898		16112		2060	71	147947	488
28-05-2020	42830	470	42469		36896		16181		2307	3	140683	473
29-05-2020	43544	508	42672		37268		18138		2454	2	144076	510
30-05-2020	38313	520	43829		37211		17068		2472	7	138893	527

2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि०यू०)

क्षेत्र / तिथि	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)
24-05-2020	1201	305	1100	49	938	74	396	132	39	17	3675	576
25-05-2020	1229	296	1125	52	960	86	390	132	37	18	3740	585
26-05-2020	1250	302	1133	36	962	77	401	124	29	18	3775	557
27-05-2020	1225	296	1129	26	969	70	351	114	30	19	3705	526
28-05-2020	1101	289	1121	21	957	72	323	99	39	23	3541	503
29-05-2020	1026	284	1115	22	945	74	361	95	41	21	3487	497
30-05-2020	859	287	1111	34	919	81	375	97	43	17	3306	515

3. आवृत्ति (प्रतिशत समय में)

तिथि	49.8-49.9	<49.9	49.9-50.05	>50.05	Average	FVI
	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड
24-05-2020	1.74	1.74	86.83	11.44	50.00	0.021
25-05-2020	5.90	6.49	81.57	11.93	49.99	0.036
26-05-2020	5.66	6.08	72.85	21.08	49.99	0.044
27-05-2020	1.64	1.64	66.57	31.78	50.03	0.041
28-05-2020	0.59	1.10	64.98	33.92	50.04	0.050
29-05-2020	6.92	7.19	73.48	19.33	50.00	0.039
30-05-2020	5.69	6.26	83.72	10.02	49.99	0.033

*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

5. Maximum Demand Met during the day & Peak Hour Shortage in States (in MW)

Region	Date	24-05-2020		25-05-2020		26-05-2020		27-05-2020		28-05-2020		29-05-2020		30-05-2020		
	States	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	03-01-2020	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	
NR	Punjab	7543	0	7833	0	8097	0	8197	0	7548	0	6532	0	5804	0	
	Haryana	7356	0	7883	0	7952	0	7602	0	7015	0	5495	0	4910	0	
	Rajasthan	11595	0	11967	0	11749	0	11961	0	11745	0	11745	0	8977	0	
	Delhi	5219	0	5331	0	5421	0	5423	0	5403	0	4381	0	4096	0	
	UP	20899	0	21331	0	20582	0	19763	0	17432	0	16793	0	16035	0	
	Uttarakhand	1539	0	1635	0	1702	0	1762	0	1624	0	1523	0	1363	0	
	HP	1086	0	1224	0	1242	0	1312	0	1274	0	1294	0	1052	0	
	J&K	2167	542	2200	550	2099	525	2112	528	2024	506	2166	542	2165	541	
	Chandigarh	250	0	261	0	284	0	297	0	270	0	204	0	156	0	
WR	Chhattisgarh	3614	0	3670	0	3733	0	3736	0	3675	0	3532	0	3501	0	
	Gujarat	14550	0	14932	0	15524	0	15075	0	15264	0	15461	0	15578	0	
	MP	9762	0	9906	0	10038	0	9956	0	9660	0	9120	0	9314	0	
	Maharashtra	20237	0	20959	0	21122	0	20946	0	21288	0	21463	0	20844	0	
	Goa	475	0	493	0	492	0	480	0	477	0	491	0	478	0	
	DD	189	0	200	0	218	0	223	0	207	0	225	0	222	0	
	DNH	381	0	393	0	410	0	413	0	412	0	383	0	415	0	
	Essar steel	761	0	754	0	784	0	776	0	742	0	769	0	771	0	
SR	Andhra Pradesh	9870	0	9955	0	10071	0	10101	0	10062	0	9880	0	9188	0	
	Telangana	7969	0	8428	0	8550	0	8598	0	8752	0	9114	0	7876	0	
	Karnataka	9484	0	10464	0	9671	0	9649	0	9672	0	10249	0	9292	0	
	Kerala	3576	0	3643	0	3658	0	3639	0	3419	0	3452	0	3197	0	
	Tamil Nadu	12841	0	13685	0	14343	0	14258	0	13876	0	13815	0	13611	0	
	Pondy	365	0	383	0	410	0	390	0	369	0	381	0	377	0	
ER	Bihar	5335	0	5308	0	5134	0	4803	0	4812	0	5006	0	4826	0	
	DVC	2567	0	2572	0	2625	0	2621	0	2505	0	2621	0	2523	0	
	Jharkhand	1472	0	1425	0	1427	0	1342	0	1146	0	1398	0	1303	0	
	Odisha	4021	0	4025	0	4154	0	4163	0	4035	0	3867	0	3929	0	
	West Bengal	5640	0	5673	0	6093	0	6036	0	4921	0	6363	0	6222	0	
	Sikkim	76	0	84	0	88	0	95	0	99	0	92	0	87	0	
		Arunachal Pradesh	107	0	103	0	92	1	102	1	90	1	112	0	106	1
NER	Assam	1247	237	1130	307	910	200	1245	40	1460	22	1546	12	1553	3	
	Manipur	182	1	179	2	180	1	167	2	164	2	179	0	176	1	
	Meghalaya	264	0	268	0	269	0	280	0	323	1	331	1	325	0	
	Mizoram	98	0	93	0	85	1	92	1	87	0	91	0	86	1	
	Nagaland	119	0	113	1	96	1	110	1	119	0	122	0	117	1	
		Tripura	278	2	273	0	259	5	220	2	241	2	250	4	242	2

6. Energy Consumption in States (MUs)

Region	States	24-05-2020	25-05-2020	26-05-2020	27-05-2020	28-05-2020	29-05-2020	30-05-2020
NR	Punjab	168.3	175.9	184.3	182.7	150.3	134.0	127.5
	Haryana	154.3	162.7	167.8	168.2	139.3	109.0	96.1
	Rajasthan	245.8	249.6	253.8	260.7	249.4	250.1	186.9
	Delhi	98.0	101.5	106.9	110.4	105.6	88.4	73.3
	UP	426.9	426.5	425.3	395.3	350.0	337.1	282.0
	Uttarakhand	34.6	36.1	36.3	35.5	34.1	33.8	28.2
	HP	22.4	24.5	25.4	25.6	24.2	24.7	19.6
	J&K	46.2	47.4	44.4	41.3	43.3	44.1	41.8
	Chandigarh	4.5	5.0	5.4	5.5	5.0	4.3	3.4
WR	Chhattisgarh	83.8	85.8	87.1	86.7	90.0	82.5	74.6
	Gujarat	312.2	319.8	323.1	321.1	321.5	323.9	326.5
	MP	216.2	220.3	218.0	218.3	210.9	203.7	206.0
	Maharashtra	447.4	457.9	462.7	460.7	457.3	462.6	461.2
	Goa	10.0	10.6	10.9	10.8	10.7	10.9	10.6
	DD	4.1	4.4	4.7	4.8	4.6	4.8	4.8
	DNH	8.7	9.0	9.3	9.2	9.4	8.9	9.3
	Essar steel	17.3	17.3	17.5	17.3	16.8	17.4	17.6
SR	Andhra Pradesh	194.0	191.6	193.5	194.8	195.4	193.3	186.4
	Telangana	172.3	177.1	176.3	176.9	180.5	182.4	164.0
	Karnataka	192.6	200.9	187.3	187.0	192.1	192.8	183.5
	Kerala	69.7	75.9	77.4	77.7	74.3	69.8	70.5
	Tamil Nadu	302.2	306.3	318.9	324.6	307.0	298.8	306.6
	Pondy	7.6	8.0	8.3	8.2	7.8	7.9	8.0
ER	Bihar	109.2	105.8	108.9	79.3	79.0	95.5	91.0
	DVC	55.0	55.3	56.7	53.8	51.7	53.7	53.2
	Jharkhand	27.7	28.3	27.9	24.4	22.2	23.4	24.9
	Odisha	85.0	85.8	86.7	88.2	79.3	73.6	75.1
	West Bengal	118.4	113.4	120.2	104.6	89.8	113.9	129.5
	Sikkim	0.9	1.1	1.2	1.2	1.3	1.2	1.2
NER	Arunachal Pradesh	1.6	1.5	1.3	1.4	1.6	1.9	1.9
	Assam	22.9	20.0	15.7	17.8	23.4	24.0	25.6
	Manipur	2.4	2.4	1.8	1.8	2.2	2.5	2.5
	Meghalaya	4.6	4.3	3.7	4.2	4.8	5.2	5.4
	Mizoram	1.6	1.7	1.3	1.6	1.3	1.4	1.7
	Nagaland	2.1	2.1	1.6	1.8	2.1	2.1	2.0
	Tripura	4.3	4.6	3.9	1.9	3.2	3.7	3.6
ALL INDIA TOTAL		3674.6	3740.1	3775.0	3704.9	3541.4	3487.3	3305.9

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (24 मई 2020 से 30 मई 2020 तक)

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

7. अंतर्क्षेत्रीय विनिमय [प्रथम क्षेत्र से द्वितीय क्षेत्र को आयात (+) / निर्यात (-)]

दिनांक	24-05-2020	25-05-2020	26-05-2020	27-05-2020	28-05-2020	29-05-2020	30-05-2020
East to North	-88.2	-95.3	-100.7	-106.5	-77.3	-58.8	-60.8
East to West	36.0	38.9	47.7	41.4	45.1	42.5	32.3
East to South	-95.4	-103.9	-102.8	-108.5	-110.1	-110.7	-112.5
East to North-East	-4.6	-5.7	-3.7	-4.3	-7.4	-1.7	-4.1
North-East to North	-10.9	-14.4	-16.8	-17.3	-17.9	-11.9	-10.3
West to North	-182.1	-192.5	-193.2	-170.9	-119.8	-103.4	-109.4
West to South	-80.9	-84.3	-78.2	-77.5	-66.8	-66.0	-74.2

**भूटान , नेपाल एवं बांग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय INTERNATIONAL
EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH**

साप्ताहिक रिपोर्ट (24 मई 2020 से 30 मई 2020 तक)

दिनांक Date	भूटान BHUTAN		नेपाल NEPAL			बांग्लादेश BANGLADESH		
	Energy Exchange	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)
24-05-2020	51.4	2143	-0.9	-184	-39	-25.6	-1119	-1067
25-05-2020	49.3	2055	-0.5	-147	-20	-20.8	-1097	-866
26-05-2020	44.5	1855	-1.0	-157	-41	-24.9	-1102	-1036
27-05-2020	43.7	1819	-0.7	-139	-28	-14.6	-1063	-608
28-05-2020	35.2	1466	-0.3	-120	-14	-13.5	-959	-563
29-05-2020	31.4	1307	-0.7	-135	-28	-17.3	-986	-720
30-05-2020	32.0	1335	-0.2	-103	-7	-20.7	-1095	-862
कुल Total	287.5		-4.2			-137.3		

8). Major Grid Incidences (Provisional):-												
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 ESA Grid Standards
				Date	Time	Date	Time					
1	NR	1) 500 MW Anpara TPS - UNIT 5 2) 400/132 kv 100 MVA ICT 3 at Anpara(UP) 3) 400/132 kv 100 MVA ICT 1 at Anpara(UP) 4) 210 MW Anpara TPS - UNIT 1 5) 210 MW Anpara TPS - UNIT 2 6) 210 MW Anpara TPS - UNIT 3 7) 500 MW Anpara TPS - UNIT 4 8) 400/132 kv 100 MVA ICT 2 at Anpara(UP)	UPPTCL	22-May-20	08:12	22-May-20	09:38	01:26	B phase CT of 10MVA, 132/11kv ICT II at 400/132kv Anpara(UP) blasted due to which Bus Bar protection operated at 132kv side but bus coupler did not open which resulted into tripping of all elements associated with 132kv buses along with station transformers which are the source of auxiliary supply for generating units resulting into tripping of all units at Anpara TPS. As per PMU, Voltage dip in B phase is observed in the system. Generation loss was about 1600MW.	1600	0	GD-1
2	NR	1) 400 kv Alakananda GVK(UPC)-Srinagar(UK) (UK) Ckt-2 2) 400 kv Alakananda GVK(UPC)-Srinagar(UK) (UK) Ckt-1	PTCUL	22-May-20	13:24	22-May-20	15:46	02:22	400 kv Alakananda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 & 2 tripped during charging of 220 KV Agastmuni to PTCUL. As per PMU, Y-B fault is observed in the system. In antecedent conditions, 400 kv Alakananda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 & 2 carrying 35MW each.	0	20	GD-1
3	NR	1) 220 kv Gurgaon(PG)-GurgaonSec72(HV) (HVPNL) Ckt-4 2) 220 kv Gurgaon(PG)-GurgaonSec72(HV) (HVPNL) Ckt-3 3) 220 kv Gurgaon(PG)-GurgaonSec72(HV) (HVPNL) Ckt-2 4) 220 kv Gurgaon(PG)-GurgaonSec72(HV) (HVPNL) Ckt-1	HVPNL	24-May-20	13:46	24-May-20	14:36	00:50	As reported by HVPNL, R-Phase CT of Rangla Ckt-1 blast at 220KV GurgaonSec72(HVPNL), due to this Bus bar protection operated at GurgaonSec72(HVPNL) resulting in tripping of 220 KV Gurgaon(PG)-GurgaonSec72(HV) (HVPNL) Ckt-1, 2, 3 & 4. As per PMU, R-N fault followed by B-N fault is observed in the system. In antecedent conditions, 220 KV Gurgaon(PG)-GurgaonSec72(HV) (HVPNL) Ckt-1, 2, 3 & 4 carrying 67MW, 81MW, 72MW & 55MW respectively.	0	400	GD-1
4	NR	1) 400/220 kv 250 MVA ICT 2 at Moga(PG) 2) 400/220 kv 500 MVA ICT 1 at Moga(PG)	POWERGRID	26-May-20	16:36	26-May-20	18:20	01:44	400/220 kv 500 MVA ICT 1 & 400/220 kv 250 MVA ICT 2 at Moga(PG) tripped due to relay maloperation. As per PMU, No fault is observed in the system. In antecedent conditions, 500 MVA ICT 1 & 250 MVA ICT 2 carrying 272MW & 146MW respectively.	0	0	GI-2
5	NR	1) 400/220 kv 315 MVA ICT 3 at Mundka(DV) 2) 400/220 kv 315 MVA ICT 4 at Mundka(DV)	DTL	27-May-20	14:12	27-May-20	15:35	01:23	400/220 kv 315 MVA ICT 3 & 315 MVA ICT 4 at Mundka(DV) tripped on over current. As per PMU, R-N fault with delayed clearance is observed in the system. In antecedent conditions, 15 MVA ICT 3 & 315 MVA ICT 4 at Mundka(DV) carrying 98MW & 96MW respectively.	0	0	GI-2
6	NR	1) 220 kv Chamera_3(NH)-Chamba(PG) (PG) Ckt-1	POWERGRID	27-May-20	15:28	27-May-20	16:21	00:53	220 kv Chamera_3(NH)-Chamba(PG) (PG) Ckt-1 tripped on R-N fault leading to Generation loss of around 280MW (230MW from Chamera 3 & 50MW from Budhil) due to loss of evacuation path. As per PMU, B-N fault is observed in the system. In antecedent conditions, 220kv Chamera 3(NHPC) & 220kv Budhil(HPC) generating 230MW & 50MW respectively.	280	0	GD-1
7	NR	1) 400 kv Banda-Rewa Road (UP) Ckt-1 2) 400 kv Meja TPS(MUN)-Rewa Road(UP) (UP) Ckt-1 3) 400 kv Banda-Rewa Road (UP) Ckt-2 4) 400 kv Obra_B-Rewa Road (UP) Ckt-1	UPPTCL	27-May-20	16:35	27-May-20	17:34	00:59	400 kv Meja TPS(MUN)-Rewa Road(UP) (UP) Ckt-1 tripped on B-N fault. At the same time, 400 kv Obra_B-Rewa Road (UP) Ckt-1 & 400 kv Banda-Rewa Road (UP) Ckt-2 tripped on overvoltage. Also 400 kv Banda-Rewa Road (UP) Ckt-1 tripped on overvoltage from Banda end. As per PMU, B-N fault is observed in the system. In antecedent conditions, 400 kv Meja TPS(MUN)-Rewa Road(UP), 400 kv Obra_B-Rewa Road (UP) Ckt-1 & 400 kv Banda-Rewa Road (UP) Ckt-2 is 259MW, 238MW & 126MW respectively.	0	0	GI-2
8	NR	1) 400 kv Chamba-Jalandhar (PG) Ckt-2 2) 400 kv Chamba-Jalandhar (PG) Ckt-1	POWERGRID	28-May-20	10:37	28-May-20	10:52	00:15	400 kv Chamba-Jalandhar (PG) Ckt-1 tripped on B-N fault, 142.7km from Jalandhar end. At the same time, 400 kv Chamba-Jalandhar (PG) Ckt-2 tripped on BR-N fault, 142.7km from Jalandhar end. As per PMU, R-B fault is observed in the system. In antecedent conditions, 400 kv Chamba-Jalandhar (PG) Ckt-1 & 2 carrying 175MW & 181MW respectively.	0	0	GI-2
9	NR	1) 800 kv HVDC Kurukshetra(PG) Pole-1 2) 800 kv HVDC Kurukshetra(PG) Pole-2	POWERGRID	28-May-20	14:58	28-May-20	16:22	01:24	800 kv HVDC Champa(Kurukshetra(PG) pole-1, 2, 3 & 4 tripped due to DC line fault. As per PMU, No fault is observed in the system. In antecedent conditions, 800 kv HVDC Champa(PG)-Kurukshetra(PG) pole-1, 2, 3 & 4 carrying total 1600MW.	0	0	GI-2
10	NR	1) 765 kv Agra-Fatehpur (PG) Ckt-1 2) 765 kv Agra-Aligarh (PG) Ckt-1	POWERGRID	28-May-20	18:02	28-May-20	19:43	01:41	765 kv Agra-Fatehpur (PG) Ckt-1 tripped on overvoltage. At the same time, 765 kv Agra-Aligarh (PG) also tripped on overvoltage. As per PMU, No fault is observed in the system. In antecedent conditions, 765 kv Agra-Fatehpur (PG) Ckt-1 & 765 kv Agra-Aligarh (PG) carrying 157MW & 336MW respectively.	0	0	GI-2
11	NR	1) 500 kv HVDC Balia-Bhiwadi (PG) Ckt-2 2) 500 kv HVDC Balia-Bhiwadi (PG) Ckt-1	POWERGRID	29-May-20	17:45	29-May-20	19:11	01:26	500 kv HVDC Balia-Bhiwadi (PG) Ckt-1 & 2 tripped on DC line fault. As per PMU, Fluctuations observed in the phase voltages. In antecedent conditions, 500 kv HVDC Balia-Bhiwadi (PG) Ckt-1 & 2 carrying 500MW total.	0	0	GI-2
12	NR	1) 765 kv Agra-Gwalior (PG) Ckt-1 2) 765 kv Agra-Gwalior (PG) Ckt-2	POWERGRID	29-May-20	19:10	29-May-20	22:12	03:02	765 kv Agra-Gwalior (PG) Ckt-1 tripped on B-N fault, 92.3km from Agra end. At the same time, 765 kv Agra-Gwalior (PG) Ckt-2 also tripped on B-N fault, 86.4km from Agra end. As per PMU, B-N fault with unsuccessful autoreclosing is observed in the system. In antecedent conditions, 765 kv Agra-Gwalior (PG) Ckt-1 & 2 carrying 508MW & 507MW respectively.	0	0	GI-2
13	NR	1) 765 kv Gr.No.2_2(UPC)-Meerut(PG) (PG) Ckt-1 2) 765 kv Moga-Meerut (PG) Ckt-1	POWERGRID	29-May-20	21:23	29-May-20	22:09	00:46	765 kv Moga-Meerut (PG) Ckt-1 tripped on B-N fault, 20.7km from Meerut S/S end. At the same time, 765 kv Gr.No.2_2(UPC)-Meerut(PG) (PG) Ckt-1 tripped due to B-N fault, 75.7km from Gr. No.2 end. As per PMU, B-N fault with unsuccessful autoreclosing is observed in the system. In antecedent conditions, 765 kv Moga-Meerut (PG) & 765 kv Gr.No.2_2(UPC)-Meerut(PG) (PG) carrying 56MW & 64MW respectively.	0	0	GI-2
14	NR	1) 400 kv Aligarh-Muradnagar_1 (UP) Ckt-1 2) 400/220 kv 500 MVA ICT 2 at Muradnagar_1(UP)	UPPTCL	31-May-20	07:07	31-May-20	16:34	09:27	400 kv Aligarh-Muradnagar_1 (UP) Ckt-1 & 400/220 kv 500 MVA ICT 2 at Muradnagar_1(UP) tripped on operation of Bus Bar protection. As per PMU, B-N fault with delayed clearance is observed in the system.	0	120	GD-1
15	NR	1) 400 kv Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-1 2) 400 kv Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-2	HVPNL	31-May-20	15:30	31-May-20	18:27	02:57	400 kv Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-2 tripped on B-N fault. At the same time, 400 kv Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-1 also tripped on B-N fault. As per PMU, multiple B-N faults are observed in the system. In antecedent conditions, 400 kv Gurgaon(PG)-Daulatabad(HV) (HV) Ckt-1 & 2 carrying 16MW each.	0	0	GI-2
16	NR	1) 400 kv Bhimtal(PG)-Barmer(RS) (RS) Ckt-2 2) 400KV Bus 1 at Bhimtal(PG) 3) 400 kv Bhimtal(PG)-Barmer(RS) (RS) Ckt-1 4) 400KV Bus 2 at Bhimtal(PG)	RRVNL	31-May-20	18:52	31-May-20	21:39	02:47	400 kv Bhimtal(PG)-Barmer(RS) (RS) Ckt-1 tripped due to Y-phase insulator broken at loc. no. 87. At the same time, 400KV Bus 1, Bus-2 & 400 kv Bhimtal(PG)-Barmer(RS) (RS) Ckt-2 also tripped on operation of Bus Bar protection. As per PMU, multiple Y-N fault is observed in the system.	0	0	GI-2
17	WR	Tripping of 1.220 kv Chhuri-Korba(E) 1&2 2.220 kv Chhuri-Korba(W) 1&2 3.220 kv Chhuri-Mogha 1&2 4.220 kv Chhuri-Bishrampur 1&2 5.220 kv Chhuri-Kotmkala 1&2	CSPTCL	23-May-20	12:08	23-May-20	12:16	00:08	During test charging of 220 kv Chhuri-Kotmkala 2, R phase CB pole got stuck at Chhuri end and resulted in tripping of all the 220 kv and 132 kv lines at Chhuri S/S. Loads connected to 220/132 kv Chhuri, Bishrampur and 132/33kv Ambikapur, Baikunthpur, Manendragarh, Wandrafnagar, Pratapur, Rajpur, Balarampur & Pathalgaon, Kansabel, Lodhna, Jashpur, Batoli & Darri substations were affected due to the event.	Nil	365	GD-1
18	WR	Tripping of 1.132 kv Jabalpur-Madhotal 2.220/132 kv Jabalpur ICTs 1,2&3 3.132kv Jabalpur-Bangi 1&2 4.132 kv Jabalpur-Tighat 5.132 kv Jabalpur-Srinagar 6.132 kv Jabalpur-Pansagar 7.132 kv Jabalpur-VF 1&2 8.132 kv Jabalpur-Maneri	MPPPTCL	24-May-20	02:40	24-May-20	03:30	00:50	At 220/132 kv Jabalpur substation, 132 kv Jabalpur bus along with all connected feeders tripped due to blasting of Y phase CT of 132 kv Jabalpur-Madhotal feeder.	Nil	200	GI-1
19	WR	Tripping of 1.-800KV HVDC Champa-Kurukshetra Poles 2&4	PGIL	26-May-20	14:37	26-May-20	16:10	01:33	800KV HVDC Champa-Kurukshetra Poles 2&4 blocked due to DC line fault. Fault distance from Champa end was 804.17km. Prior to the event, each pole was carrying 400 MW.	Nil	Nil	GI-2
20	WR	Tripping of 1.400 kv Seoni-Kirnapur 2.132 kv Kirnapur- Dongargarh 3.132kv Lalbarra-Balaghat	MPPPTCL	26-May-20	15:32	26-May-20	16:54	01:22	400 kv Seoni-Kirnapur tripped from Seoni end on R-E fault and the line was holding from Kirnapur end. At the same time, sparking occurred in R phase isolator of 132 kv Balaghat-Wara seoni line at Balaghat end. 132kv Lalbarra-Balaghat tripped on Zone 3 protection operation from Lalbarra end and 132kv Kirnapur-Dongargarh tripped without any relay indication. With these trippings, 400 kv Kirnapur & 132 kv Balaghat station went blackout. 400 kv Bhlai-Kirnapur was under outage on Voltage regulation prior to the event.	Nil	80	GD-1

21	WR	Tripping of 1.220 kV Kasor-Gavasas 1 2.220 kV Kasor- Heranj 1 3.220 kV Kasor- Karamsad 1 4.400/220 kV Kasor ICT 1	GETCO	27-May-20	09:22	27-May-20	10:37	01:15	At 400/220 kV Kasor S/5, Y-E fault occurred on 220 kV Bus 1 and resulted in tripping of all the elements connected to 220 kV Bus 1 on Busbar protection operation. As reported from site, burnt aluminium wires were found in 220/66 kV ICT 1 bay which were suspected to be carried and dropped inside the substation by some bird.	Nil	Nil	GI-1
22	WR	Tripping of 1.765 kV Satna- Sasan 1&2 2.765 kV Satna-Vindhyachal PS 1&2 3.765 kV Satna-Orai 4.765 kV Satna-Gwalior 5.765 kV Satna-Bina 2 6.765 kV Satna BR 1&2 7.765/400 kV Satna ICT 2 8.765 kV Sasan-Vindhyachal PS 1&2 9.765kV Vindhyachal PS-Jabalpur 1&2 10.400 kV Satna-# Nigirie 2 11.400 kV Vindhyachal PS-Sasan 1&2 12.400 kV VSTPS 4- Vindhyachal PS 1,2,3&4 13.400 kV VSTPS 4- VSTPS 5 1&2 14.660MW Sasan Units 2,3,4,5&6 15.500 MW VSTPS Units 11,12&13 16.500 MW Rihand Stage 3 Units 1&2 17.400 kV Sasan-Rewa 18.400/38.5 kV Satna STATCOM coupling transformer 19.765 kV Satna Bus 1&2	PGCIL/SASAN/NTPC	28-May-20	16:58	28-May-20	19:08	02:10	Due to Extreme weather conditions, multiple trippings occurred at Satna,Sasan and Vindhyachal Pooling station. 765 kV Satna Bus 1 & Bus 2 tripped on R-E fault.This resulted in islanding of Sasan, Vindhyachal Pooling, VSTPS stage 4&5 and Rihand. After isolation from the grid all the generators/lines connected tripped on Over speed/Over Voltage respectively	5246	950	GD-1
23	WR	Tripping of 1.-800kV HVDC Champa-Kurukshetra Poles 1,2,3&4	PGCIL	28-May-20	14:58	28-May-20	16:21	01:23	800 kV HVDC Champa-Kurukshetra Pole 1 blocked due to Valve Based Electronics (VBE) Control Maloperation at Kurukshetra end. Poles 2&4 blocked on Cable Longitudinal Differential (CLD) protection operation. Pole 3 blocked on Common Neutral Area Protection (CNAP) maloperation at Champa end. Prior to the event each pole was carrying 400 MW each.	Nil	Nil	GI-2
24	WR	Tripping of 1.800kV HVDC Champa-Kurukshetra Poles 1&2	PGCIL	28-May-20	19:53	28-May-20	21:25	01:32	800 kV HVDC Champa-Kurukshetra Poles 1&2 blocked on DC line fault.Fault Location was at tower No-2270 at 846.7 km from Champa end. Prior to the event, each pole was carrying 375 MW.	Nil	Nil	GI-2
25	WR	Tripping of 1.220 kV Malanpur-Gwalior 1&2 2.220 kV Malanpur-Morena 1&2 3.220 kV Malanpur-Morena(Adani) 4.220/132 kV Malanpur ICTs 1,2&3	MPPTCL	29-May-20	19:08	29-May-20	20:02	00:54	Due to Extreme weather conditions, 220 kV Malanpur -Gwalior 1&2 and 220 kV Malanpur-Morena(Adani) tripped on B-E fault. 220 kV Malanpur-Morena 1&2 tripped on B-Y fault and Y-E fault respectively. 132 kV Banmore 1 and 132 kV Mehaon feeders tripped on R-E fault. Since 28.05.2020, 220kV Malanpur-Auraiya, 132 kV Malanpur-Banmore 2 and 132 kV Malanpur-Badagaon were under forced outage. Malanpur substation went blackout	Nil	38	GD-1
26	WR	Tripping of 1.400 kV Korba(W) Extension-Bhilai 2400 kV Korba(W) Extension-Marwa. 3.400/220 kV 500 MVA Korba(W) CT 4.210 MW Korba(W) Units 3&4 5.500 MW Korba(W) Extension Unit 5	CSPTCL/ CSPCL	31-May-20	18:15	31-May-20	19:28	01:13	While charging 400 kV Korba(W) Extension-Marwa, line tripped on SOTF and at the same time 400 kV Korba(W) Extension-Bhilai, 210 MW Korba(W) Units 3&4 and 500 MW Korba(W) Unit 5 tripped. The reason for the tripping is under investigation.	750	Nil	GD-1
27	SR	i. 220kV Manyata - Yelahanka line	KPTCL	24-May-20	14:55	24-May-20	17:58	3 hrs 3 mins	Complete loss of supply at 220kV Manyata and 220kV Hebbal SS of KPTCL: In the antecedent 220kV Peenya - Hebbal, 220kV Manyata - Hoody and 220kV Manyata - ITI were in idle charged condition. There was also heavy rain and wind. 220kV Manyata - Yelahanka line tripped on Zone-1, distance protection due to R-Y fault. As reported at tower location 67, tarpauline sheet fell on the line. Since the only incoming source to 220kV Hebbal was from Manyata, tripping of 220kV Manyata - Yalahanka line resulted in complete loss of supply at 220kV Manyata and 220kV Hebbal stations of KPTCL.	----	100 MW	GD-1
28	SR	i. 220kV Somanahally - Khodays line	KPTCL	24-May-20	15:15	24-May-20	16:55	1 hr 40 mins	Complete loss of supply at 220kV Khodays and 220kV Subramanyapura SS of KPTCL: In the antecedent conditions, 220kV Subramanyapura - Peenya line was in idle charged condition. There was also heavy rain and wind. Triggering incident was Y-B phase fault in 220kV Somanahally - Khodays line and the line tripped on Zone-1 distance protection. This resulted in complete loss of supply at 220kV Khodays and 220kV Subramanyapura stations since these stations were radially fed from Somanahally station.	----	110 MW	GD-1
29	SR	All elements connected to 220kV Bus-1 and Bus-2 at Talapalli.	Andhra Pradesh	28-May-20	19:41	28-May-20	22:35	2 hr 54 mins	Complete outage of 220kV Talapalli SS of APTRANSCO: Triggering incident was R-phase CT blast connected to 220kV side of 400/220kV ICT-2 at Talapalli. Bus bar protection of both 220kV Bus-1 and Bus-2 operated and all connected elements tripped resulting in complete outage of 220kV Talapalli station. Details are awaited.	----	550 MW	GD-1
30	SR	i. 220kV Nunna - Bhimadola line ii. 220kV Nunna - Gunadola line iii. 220kV Nunna - KTPS line iv. 220kV Nunna - Gudvada line-2 v. 400/220kV ICT-3 at Nunna	APTRANSCO	23-May-20	09:45	23-May-20	11:00	1 hr 15 mins	Tripping of Bus-2 at 220kV Nunna SS of APTRANSCO: Triggering incident was failure of HV side CT connected to 220/132kV ICT-1 at Nunna. Bus bar protection of Bus-2 operated and all Bus-2 connected elements tripped. There was no load / generation loss during the event.	----	----	GI-1
31	SR	i. 220kV Nagarjunsagar - Tallapalli Line-1 ii. 220kV Nagarjunsagar - Srisailem RB iii. Units at Nagarjunsagar	TSGENCO	29-May-20	00:08	29-May-20	02:51	2 Hrs 43 mins	Tripping of Bus A at 220kV Nagarjunsagar station of TSGENCO: Triggering incident was failure of HV side CT connected to 220/132kV ICT-1 at Nagarjunsagar. Bus bar protection of Bus-A operated and all Bus A connected elements tripped.	----	----	GI-1
32	ER	220 kV TTPS - PTPS S/C 220 kV TTPS - Bihar Sharif S/C Unit 1 and 2 at TTPS	JUSNL	24-May-20	12:38	24-May-20	13:01	00:23	At 12:28 hrs 220 kV TTPS - Bihar Sharif S/C tripped due to R phase to earth fault. The whole power generated by TTPS was being evacuated through 220 kV TTPS - PTPS S/C. At 12:38 hrs, 220 kV TTPS - PTPS S/C tripped due to B phase to earth fault resulting in tripping of both running units at TTPS.	292	0	GD-1
33	ER	220 kV Muzaffarpur Dhalkebar D/C	ISTS	24-May-20	19:51	24-May-20	20:21	00:30	220 kV Muzaffarpur Dhalkebar D/C tripped due to B phase directional O/C resulting in loss of power supply to Dhalkebar. Prior to the tripping export schedule to Nepal was 90 MW. Around 60-70 MW power was flowing through 220 kV Muzaffarpur Dhalkebar D/C. At 19:49 hrs power through these two circuits increased to more than 145 MW. No load loss reported in Indian grid.	0	0	GI-I
34	ER	220 kV NIP- TLDP III S/C 220 kV NIP- TLDP IV D/C 220 kV NIP- Binaguri D/C	WBSETCL	27-May-20	00:56	27-May-20	02:02	01:06	At 00:56 Hrs. all 220 kV lines from 220 kV NIP tripped due to tripping of both 220 kV Buses ,causing generation loss at TLDP III and TLDP IV on no evacuation path	280	0	GD-1
35	ER	220 kV New Mellii - Jorethang D/C 220 kV Tashiding - New Mellii S/C 220 kV Tashiding - Rangpo S/C	ISTS	27-May-20	04:28	27-May-20	04:50	00:22	220 kV New Mellii - Jorethang - 1 tripped on Y phase to earth fault from Jorethang end. 220 kV New Mellii - Jorethang - 2 tripped on overcurrent protection from Jorethang end only. At same time 220 kV Tashiding - New Mellii S/C and 220 kV Tashiding - Rangpo S/C tripped from Tashiding end only on Y phase to earth fault.	110	0	GD-1
36	ER	400 kV Barh - Motihari - 2	ISTS	30-May-20	19:22	30-May-20	21:59	02:37	At 19:22 hrs 400 kV Barh - Motihari - 2 tripped due to Y phase to earth fault. The tripping has led to loss of supply to Betya and Motihari as being the single source of supply causing Grid Disturbance 1 (GD-1) category event.	0	126	GD-1
37	ER	400 kV Barh - Motihari - 2	ISTS	30-May-20	22:05	31-May-20	18:47	20:42	At 22:05 hrs 400 kV Barh - Motihari - 2 tripped due to Y phase to earth fault. The tripping has led to loss of supply to Motihari as being the single source of supply causing Grid Disturbance 1 (GD-1) category event.	0	0	GD-1
38	NER	132 kV Daporijo-Along	DoP, Arunachal Pradesh	26-May-20	07:36	26-May-20	07:54	00:18	Along area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Daporijo-Along line. At 07:36 hrs on 26.05.2020, 132 kV Daporijo-Along line tripped. Due to tripping of this element, Along area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	14	GD 1
39	NER	132 kV Lumshnong-Panchgram line	AEEGL & MePTCL	26-May-20	22:13	26-May-20	22:24	00:11	Lumshnong area of Meghalaya Power System was connected with rest of NER Grid through 132 kV Lumshnong-Panchgram line. 132 kV Khliehriat- Lumshnong line was under forced outage since 21:56 Hrs on 26.05.20. At 22:13 Hrs on 26.05.2020, 132 kV Lumshnong-Panchgram 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	14	GD 1
40	NER	132 kV Dimapur-Kohima line	POWERGRID , MSPL & DoP, Nagaland	27-May-20	11:38	27-May-20	12:06	00:28	Kohima area of Nagaland Power System & Karong Area of Manipur Power System were connected with the rest of NER Grid through 132 kV Dimapur - Kohima line.132 kV Kohima - Wokha line was declared faulty at 05:10 Hrs of 27.05.2020 and 132 kV Imphal(Vurembam)-Karong Line was under planned S/D w.e.f 09:05 Hrs of 10.05.2020. At 11:38 Hrs on 27.05.2020, 132 kV Dimapur-Kohima line tripped. Due to tripping of this element, Kohima & Karong areas were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	0	11	GD 1

41	NER	132 kV Dimapur-Kohima line	POWERGRID, MSPCL & DoP, Nagaland	27-May-20	15:58	27-May-20	16:16	00:18	Kohima area of Nagaland Power System & Karong Area of Manipur Power System were connected with the rest of NER Grid through 132 kV Dimapur - Kohima line. 132 kV Kohima - Wokha line was declared faulty at 05:10 Hrs of 27.05.2020 and 132 kV Imphal(Yurembam)-Karong Line was under planned S/D w.e.f 09:05 Hrs of 10.05.2020. At 15:58 Hrs on 27.05.2020, 132 kV Dimapur-Kohima line tripped. Due to tripping of this element, Kohima & Karong areas were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	0	26	GD 1
42	NER	132 kV Doyang- Sanis line	DoP Nagaland	31-May-20	14:35	31-May-20	15:05	00:30	Kohima area of Nagaland Power System & Karong Area of Manipur Power System were connected with the rest of NER Grid through 132 kV Doyang- Sanis line. 132 kV Dimapur(PG)-Kohima line was declared faulty at 10:35 Hrs of 31.05.2020 and 132 kV Imphal(Yurembam)-Karong Line was under planned S/D w.e.f 09:05 Hrs of 10.05.2020. At 14:35 Hrs on 31.05.2020, 132 kV Doyang-Sanis line tripped. Due to tripping of this element, Kohima & Karong areas were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	8	32	GD 1