



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: 04th Oct 2019

To,

- कार्यपालक निदेशक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 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
- 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
- कार्यपालक निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 23rd Sep-2019 to 29th Sep-2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.- 5.5.1 के प्रावधान के अनुसार, 23 सितम्बर-2019 से 29 सितम्बर-2019, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 23rd Sep-2019 to 29th Sept-2019, is available at the NLDC website.

Thanking You.

Yours faithfully,

04/10/19
GM (SO)

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

साप्ताहिक रिपोर्ट (23 सितम्बर से 29 सितम्बर 2019 तक)

रिपोर्टिंग तिथि:- 4-Oct-19

(आई० ई० जॉ० सी० को धारा संख्या-5.5.1 के अंतर्गत)

1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मि०वा०)

दिनांक	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति (मि०वा०)	अधिकतम कमी (मि०वा०)	अधिकतम मांग आपूर्ति (मि०वा०)	अधिकतम कमी (मि०वा०)	अधिकतम मांग आपूर्ति (मि०वा०)	अधिकतम कमी (मि०वा०)	अधिकतम मांग आपूर्ति (मि०वा०)	अधिकतम कमी (मि०वा०)	अधिकतम मांग आपूर्ति (मि०वा०)	अधिकतम कमी (मि०वा०)	अधिकतम मांग आपूर्ति (मि०वा०)	अधिकतम कमी (मि०वा०)
23-09-2019	54472	1780	45713		39160		21819		2508	277	163672	2057
24-09-2019	55112	1043	45709		38776		20656		2323	349	162576	1392
25-09-2019	55337	553	43966		37251		19946		2459	215	158959	768
26-09-2019	52138	1470	43510		37759		19217	150	2691	125	155315	1745
27-09-2019	51361	504	43356		37881		19663	100	2665	163	154926	767
28-09-2019	45156	455	42812		36728		17621		2586	235	144903	690
29-09-2019	42124	508	40045		36075		17021		2430	157	137695	665

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)
23-09-2019	1158	255	1036	117	874	156	445	134	46	24	3559	686
24-09-2019	1177	255	1029	123	841	148	432	138	42	27	3521	691
25-09-2019	1187	267	1000	130	825	153	401	116	44	28	3457	694
26-09-2019	1150	279	984	113	813	145	382	127	47	28	3377	691
27-09-2019	1088	286	958	112	834	153	378	126	48	27	3306	703
28-09-2019	999	269	943	101	848	166	349	127	49	24	3187	687
29-09-2019	888	267	911	101	829	151	323	121	45	25	2996	665

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
23-09-2019	3.58	4.33	78.47	17.20	50.00	0.030
24-09-2019	1.13	1.13	75.51	23.36	50.02	0.024
25-09-2019	1.75	1.75	70.53	27.72	50.02	0.030
26-09-2019	2.03	2.87	66.20	30.93	50.03	0.041
27-09-2019	0.98	0.98	69.11	29.91	50.03	0.028
28-09-2019	1.48	1.48	65.21	33.31	50.03	0.030
29-09-2019	3.08	3.33	52.27	44.40	50.05	0.067

*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

1. 400 kV Bableshwar-sinnar-I first time charged on 26-09-2019 at 16:35 hrs.
2. 400 kV Kochi-Tirunelveli-II first time charged on 27-09-2019 at 15:28 hrs.
3. 765/400kV ICT-II (33 kV) at Cuddapah first time charged on 27-09-2019 at 16:50 hrs.
4. 765 kV Bikaner-Bhadla-II & I first time charged on 29-09-2019 at 23:05 hrs & 23:32 hrs.

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

Region	Date	23-09-2019		24-09-2019		25-09-2019		26-09-2019		27-09-2019		28-09-2019		29-09-2019	
	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	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage
NR	Punjab	9712	0	9810	0	9884	0	9459	0	9459	0	8066	0	5504	0
	Haryana	8654	0	8631	0	8651	0	8625	0	8256	0	7924	0	6686	0
	Rajasthan	9950	0	10095	0	9895	0	9929	0	9945	0	9360	0	9234	0
	Delhi	4613	0	4733	0	4851	0	4766	0	4682	0	4276	0	3909	0
	UP	16532	660	16888	520	17106	0	14863	0	14497	0	13646	0	13512	0
	Uttarakhand	1882	0	1893	0	1945	0	1859	0	1754	0	1662	0	1601	0
	HP	1460	0	1473	0	1483	0	1420	0	1390	0	1409	0	1252	0
	J&K	2198	550	2091	523	2195	549	2129	532	2122	531	1950	488	2033	508
Chandigarh	242	0	255	0	255	0	241	0	228	0	204	0	166	0	
WR	Chhattisgarh	4327	0	4144	0	3930	0	3747	0	3634	0	3528	0	3206	0
	Gujarat	14487	0	14313	0	13964	0	14046	0	13189	0	12472	0	11214	0
	MP	7553	0	7949	0	7749	0	7887	0	7664	0	7419	0	7481	0
	Maharashtra	18714	0	18614	0	18092	0	17890	0	17875	0	18044	0	17368	0
	Goa	541	0	541	0	541	0	541	0	541	0	541	0	541	0
	DD	319	0	337	0	340	0	327	0	334	0	329	0	294	0
	DNH	804	0	793	0	794	0	799	0	782	0	789	0	767	0
	Essar steel	293	0	316	0	284	0	421	0	427	0	380	0	339	0
SR	Andhra Pradesh	7454	0	7273	0	7249	0	6866	0	7045	0	6988	0	7263	0
	Telangana	8351	0	8170	0	7120	0	7434	0	7166	0	7472	0	7646	0
	Karnataka	9328	0	8034	0	7914	0	7930	0	8240	0	8250	0	8031	0
	Kerala	3541	0	3463	0	3434	0	3489	0	3567	0	3421	0	3155	0
	Tamil Nadu	13151	0	13522	0	13372	0	13467	0	13422	0	12960	0	12289	0
	Pondy	373	0	367	0	372	0	367	0	381	0	379	0	337	0
	Bihar	5267	0	5210	0	4946	0	4288	0	3998	0	3320	0	2837	0
ER	DVC	3043	0	2799	0	2916	0	2754	0	2798	0	2917	0	2871	0
	Jharkhand	1201	0	1119	0	1274	0	1103	0	1223	0	1168	0	1095	0
	Odisha	4581	0	4607	0	4272	0	4273	0	4394	0	4034	0	4144	0
	West Bengal	8380	0	7658	0	7477	0	7466	0	7730	0	7143	0	6893	0
	Sikkim	90	0	90	0	100	0	97	0	94	0	96	0	95	0
NER	Arunachal Pradesh	109	9	101	3	115	1	126	1	120	3	117	2	112	1
	Assam	1578	67	1466	41	1545	90	1719	103	1686	68	1630	153	1562	117
	Manipur	147	11	141	7	158	2	161	2	165	4	159	3	152	2
	Meghalaya	289	6	308	3	352	0	331	0	358	0	344	0	335	0
	Mizoram	86	7	63	4	95	1	101	1	89	1	92	2	86	3
	Nagaland	107	6	98	7	120	2	121	1	122	2	122	3	125	2
	Tripura	274	18	246	12	245	3	289	3	271	4	269	2	228	6

6. Energy Consumption in States (MUs)

Region	States	23-09-2019	24-09-2019	25-09-2019	26-09-2019	27-09-2019	28-09-2019	29-09-2019
NR	Punjab	213.9	220.3	222.9	219.3	197.7	165.1	122.6
	Haryana	179.6	186.1	185.6	184.2	179.5	169.3	143.0
	Rajasthan	225.8	228.5	225.0	226.6	222.0	210.8	197.9
	Delhi	98.5	99.3	102.4	102.6	100.9	94.6	84.7
	UP	326.9	328.4	335.1	301.8	276.3	261.3	244.4
	Uttarakhand	38.3	39.7	40.4	39.9	38.8	36.5	33.0
	HP	29.2	29.8	30.7	29.4	28.7	27.3	24.5
	J&K	41.0	39.8	39.8	41.3	39.5	30.1	34.5
	Chandigarh	5.0	5.3	5.3	5.2	4.7	4.3	3.4
WR	Chhattisgarh	103.5	98.6	86.6	84.2	81.3	80.8	76.2
	Gujarat	317.2	320.5	312.7	306.6	289.4	279.2	257.9
	MP	164.0	163.5	166.5	162.9	162.4	152.4	154.1
	Maharashtra	409.6	403.0	391.5	385.4	379.7	385.6	380.7
	Goa	11.0	11.0	12.2	11.9	11.9	11.9	11.3
	DD	7.1	7.5	6.6	7.4	7.5	7.4	6.8
	DNH	18.4	18.6	18.5	18.5	18.4	18.4	18.1
	Essar steel	5.3	5.8	5.6	7.2	7.6	7.2	6.1
SR	Andhra Pradesh	158.1	153.1	153.9	147.7	149.7	154.2	160.0
	Telangana	179.5	169.4	153.7	154.1	148.7	160.2	166.3
	Karnataka	177.3	158.3	159.2	154.8	164.7	163.0	156.0
	Kerala	71.4	70.2	68.8	68.1	70.2	71.3	65.1
	Tamil Nadu	280.4	282.4	282.3	280.9	293.5	291.6	274.7
	Pondy	7.6	7.5	7.3	7.4	7.7	7.8	7.3
ER	Bihar	98.1	98.1	89.0	69.5	70.4	53.0	43.5
	DVC	62.7	61.0	60.0	59.7	59.1	57.8	57.5
	Jharkhand	26.6	24.1	22.4	21.8	22.1	20.1	19.0
	Odisha	89.7	95.0	89.4	87.6	84.1	83.2	78.9
	West Bengal	166.7	153.1	139.1	142.8	140.9	133.4	122.6
	Sikkim	1.0	0.9	1.0	1.0	1.0	1.2	1.2
NER	Arunachal Pradesh	2.0	2.0	2.1	1.4	1.9	2.3	2.2
	Assam	27.2	24.7	25.7	28.8	29.6	29.4	26.5
	Manipur	2.5	2.3	2.3	2.4	2.3	2.4	2.2
	Meghalaya	5.8	5.7	6.1	6.4	6.1	6.1	6.1
	Mizoram	1.6	1.6	1.6	1.6	1.7	1.4	1.6
	Nagaland	2.0	2.0	2.0	2.1	2.1	2.2	2.4
	Tripura	4.7	4.2	4.3	4.5	4.4	4.7	4.1
ALL INDIA TOTAL		3559.2	3521.2	3457.4	3376.8	3306.2	3187.5	2995.8

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

साप्ताहिक रिपोर्ट (23 सितम्बर से 29 सितम्बर 2019 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	23-09-2019	24-09-2019	25-09-2019	26-09-2019	27-09-2019	28-09-2019	29-09-2019
East to North	-104.8	-97.9	-85.1	-85.8	-91.9	-91.7	-76.4
East to West	36.5	39.3	43.0	50.0	54.1	58.1	60.5
East to South	-38.5	-33.8	-34.8	-41.1	-55.5	-595.0	-60.7
East to North-East	-7.3	-2.3	-3.0	-6.2	-6.5	-9.2	-5.7
North-East to North	-14.2	-15.4	-15.8	-14.6	-14.6	-15.9	-16.7
West to North	-161.4	-179.0	-178.9	-168.6	-162.3	-139.1	-99.2
West to South	2.8	3.8	8.2	5.2	-32.0	-36.5	-49.0

**भूटान , नेपाल एव बाग्लादेश के साथ अतरराष्ट्रीय विद्युत विनिमय INTERNATIONAL
EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH**

साप्ताहिक रिपोर्ट (23 सितम्बर से 29 सितम्बर 2019 तक)

अंतरराष्ट्रीय विद्युत विनिमय [भारत से दूसरे देश को आयात (+) / निर्यात (-)] Transnational Exchange from India (Import=(+ve) /Export =(-ve))

दिनांक Date	भूटान BHUTAN		नेपाल NEPAL			बाग्लादेश BANGLADESH		
	Energy Exchange	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)
23-09-2019	43.9	1831	-4.2	-237	-174	-25.4	-1108	-1058
24-09-2019	44.9	1869	-3.6	-156	-150	-25.4	-1099	-1058
25-09-2019	44.4	1852	-3.3	-165	-137	-25.2	-1084	-1052
26-09-2019	45.3	1887	-4.5	-280	-188	-25.4	-1094	-1057
27-09-2019	41.7	1736	-4.5	-306	-186	-16.2	-1104	-676
28-09-2019	44.2	1843	-2.3	-105	-94	-25.5	-1098	-1061
29-09-2019	43.4	1808	-2.8	-118	-115	-24.0	-1075	-999
कुल Total	307.8		-25.1			-167.1		

8). Major Grid Incidences (Provisional):-

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Repair		Outage Duration, Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
1	NR	1) 220kV Bus 4 at 220kV Unchahar(NTPC) 2) 220kV Unchahar(NTPC)-Kanpur(PG) ckt-2 3) 220kV Unchahar(NTPC)-Kanpur(PG) ckt-4 4) 210MW Unit#4 at 220kV Unchahar(NTPC) 5) 500MVA ICT 1 at 400/220kV Unchahar(NTPC)	NTPC & POWERGRID	27-Sep-19	4:40	27-Sep-19	07:50	03:10	Fault in 220kV Unchahar(NTPC)-Kanpur(PG) ckt-2 observed leading to tripping of 220kV Bus 4 at 220kV Unchahar(NTPC) due to operation of Bus-bar protection. 220kV Unchahar(NTPC)-Kanpur(PG) ckt-4 & 210MW Unit#4 at 220kV Unchahar(NTPC) also tripped. As per PMU, Y-N fault with delayed clearance and unsuccessful autoreclosing is observed. In antecedent conditions, 220kV Unchahar(NTPC)-Kanpur(PG) ckt-2 & 4 carrying 44MW & 46MW respectively.	120		GD-1
2	NR	1) 400kV Anpara(UP)-Samath(UP) Ckt-2 2) 315MVA ICT 1 at 400/220kV Samath(UP) 3) 220/132kV 160MVA ICT4 at Samath(UP)	UP	27-Sep-19	5:41	27-Sep-19	06:52	01:11	400kV Anpara(UP)-Samath(UP) Ckt-2 tripped on Y-N fault. At the same time, 315MVA ICT 1 at 400/220kV Samath(UP) also tripped due to operation of differential protection. As per PMU, Y-N fault with no autoreclosing is observed. In antecedent conditions, 400kV Anpara(UP)-Samath(UP) Ckt-2 & 315MVA ICT 1 carrying 324MW & 86MW respectively.			GI-2
3	NR	1) 315MVA ICT 2 at 400/220kV Mundka(DTL) 2) 220kV Mundka(DTL)-Najafgarh(DTL) 3) 220kV Mundka(DTL)-Khanjawa(DTL)	Delhi	29-Sep-19	0:19	29-Sep-19	11:30	11:11	315MVA ICT 2 at 400/220kV Mundka(DTL) tripped due to Fire In Ict resulting in heavy sound and flame in the transformer. At the same time, 220kV Mundka(DTL)-Najafgarh(DTL) & 220kV Mundka(DTL)-Khanjawa(DTL) also tripped. As per PMU, B-N fault is observed in the system. In antecedent conditions, 315MVA ICT 2, 220kV Mundka(DTL)-Najafgarh(DTL) & 220kV Mundka(DTL)-Khanjawa(DTL) carrying 157MW, 105MW & 72MW respectively.		187	GD-1
4	WR	Tripping of 1.220kV Omkareshwar-Julwania 2.220kV Omkareshwar-Chhegaon 3.220kV Omkareshwar-Khandwa 4. 8X 65 MW Omkareshwar Units 1 to 8	MPPGCL	27-Sep-19	12:36	27-Sep-19	12:51	00:15	At 220 kV Omkareshwar power station, due to Y&B phase fault, 220 kV Julwania, Chhegaon and Khandwa feeders tripped. All the eight units at Omkareshwar tripped at the same time and there was a generation loss of 433 MW.	433	Nil	GI-1
5	WR	Tripping of 1.±800 kV HVDC Champa-Kurukshetra Pole 1 2.±800 kV HVDC Champa-Kurukshetra Pole 2	PGCIL	29-Sep-19	10:54	29-Sep-19	11:33	00:39	800 kV HVDC Champa-Kurukshetra Pole 1&2 blocked due to the Type B filter tripping at Kurukshetra end during Pole 3 testing activities.	Nil	Nil	GI-2
6	SR	i. 400kV Guttur-Kaiga-1 ii. 400kV Guttur-Hiriyur-1 &2 iii. 400kV Guttur - JSW iv. 400kV Guttur - Dhoni v. 400kV Guttur - Narendra-1 vi. 400/220kV ICT-1 at Guttur	KPTCL	26-Sep-19	16:10	26-Sep-19	16:54	00:44	Multiple tripping at 400kV Guttur station of KPTCL. During antecedent conditions, all elements were connected to Bus-1 due to renovation and upgradation works. As per the report submitted, during testing of ICT-2 HV side Back-up P14 relay, LBB trip got extended resulting in the operation of Bus-1 Bus Bar Protection at 400kV Guttur SS and all the elements connected to 400kV Bus-1 got tripped. Since Bus-2 was already under outage, this resulted in the de-energization of 400kV bus voltage at 400kV/220kV Guttur SS. 220kV side was not affected.	-----	-----	GI-2
7	SR	i. 400kV Guttur-Kaiga-2 ii. 400kV Guttur-Hiriyur-1 &2 iii. 400kV Guttur - Dhoni iv. 400kV Guttur - Narendra-1 v. 400/220kV ICT-1 at Guttur	KPTCL	26-Sep-19	18:20	26-Sep-19	20:25	02:05	Multiple trippings at 400kV Guttur station of KPTCL. After the first event at 16:10 Hrs, supply to 400kV Guttur station restored at 16:54 Hrs. However, due to shorting of R-ph initiation wire, there was continuous LBB initiation which resulted in operation of LBB once again at 18:20 Hrs . This resulted in de-energization of 400kV Bus voltage at 400/220kV Guttur SS. 220kV side not affected.	-----	-----	GI-2
8	ERLDC	220 KV Ranchi-Hatia D/C 220 KV Patratu-Hatia D/C	JUSNL	24-Sep-19	17:13	24-Sep-19	17:35	00:22	At 17:13 hrs., 220 KV Ranchi-Hatia D/C and 220 KV Patratu-Hatia D/C tripped leading to total power failure in 220 K Hatia s/s.	0	169	GD-1
9	ERLDC	HVDC Talcher Kolar pole II	ISTS	43737	0.8764	43738	0:06	3:04	Due to blockage of HVDC Talcher Kolar pole 2, power order of HVDC Talcher Kolar reduced from 1500 MW to 1000 MW. Generation reduction occurred at JITPL by 40 MW (from 380 MW to 340 MW). There was no unit in service at GMR. Valve based electronics fault is suspected.	40	0	GI-II
10	NER	Panchgram Area of Assam Power System	POWERGRID & AEGCL	43731	0.6868	43731	16:45	0:16	Panchgram area of Assam Power System was connected with the rest of NER Grid through 132 kV Badarpur - Panchgram line and 132 kV Hallakandi - Panchgram line. (132 kV Srikona-Panchgram line was under long outage and 132 kV Lumshong-Panchgram line was ideal charged for system requirement) At 16:29 Hrs on 23.09.2019,132 kV Badarpur - Panchgram line and 132 kV Hallakandi - 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	37	GD 1
11	NER	132 kV Palatana - Surajmaninagar, 132 kV R.C.Nagar - Agartala D/C, 132 kV Agartala-Rokhia D/C, 132 kV Agartala-S.M. Nagar D/C	TSECL,POWERGRID	43735	0.4833	43735	12:00	0:24	Agartala area of Tripura Power System was connected with the rest of NER Grid through 132 kV R.C. Nagar - Agartala D/C, 132 kV Agartala-Rokhia D/C and 132 kV Palatana - Surajmaninagar D/C line. (132 kV Rokhia-Monarchak line was under shutdown) At 11:36 hrs of 27.09.2019, 132 kV Palatana - Surajmaninagar, 132 kV R.C. Nagar - Agartala D/C, 132 kV Agartala-Rokhia D/C, 132 kV Agartala-S.M. Nagar D/C tripped leading to bus dead of 132 kV Agartala, S.M. Nagar & Rokhia S/S. Further, 132 kV S.M Nagar - Comilla D/C were hand tripped due to loss of power at 132 kV S.M. Nagar Bus. Due to tripping of these elements, Agartala area was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area	44	192	GD 2
12	NER	Panchgram Area of Assam Power System	POWERGRID & AEGCL	43736	0.1604	43736	0.165972	0:08	Panchgram area of Assam Power System was connected with the rest of NER Grid through 132 kV Badarpur - Panchgram line and 132 kV Hallakandi - Panchgram line. (132 kV Srikona-Panchgram line was under long outage and 132 kV Lumshong-Panchgram line was ideal charged for system requirement). At 03:51 Hrs on 28.09.2019,132 kV Badarpur - Panchgram line and 132 kV Hallakandi - 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	GD 1
13	NER	Dimapur area of Nagaland Power System, Bokajan area of Assam Power System and 220 kV Dimapur(PG) substation	POWERGRID	30-Sep-19	0.6097	30-Sep-19	0.647222	0:54	Dimapur area of Nagaland Power System, Bokajan area of Assam Power System and 220 kV Dimapur(PG) substation were connected with rest of NER Grid through 220 kV Dimapur(PG)- Misa 1&2 Lines, 132 kV Dimapur(PG)-Doyang 1&2 Lines and 132 kV Golaghat- Bokajan Line. At 14:38 hrs on 30.09.2019, 220 kV Dimapur(PG)- Misa 1&2 Lines, 132 kV Dimapur(PG)-Doyang 1&2 Lines and 132 kV Golaghat- Bokajan Line tripped. Due to tripping of these elements, Dimapur area of Nagaland Power System, Bokajan area of Assam Power System and 220 kV Dimapur(PG) substation were separated from rest of NER Grid and subsequently collapsed due to load-generation mismatch in these areas.	42	61	GD 1