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: 16th Oct 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., डोंगतिएह, 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 05th Oct-2020 to 11th Oct-2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, 05 अक्टूबर-2020 से 11 अक्टूबर-2020, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर निम्न लिंक पर उप्लब्ध 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 05th Oct-2020 to 11th Oct-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 (05 अक्टूबर 2020 से 11 अक्टूबर 2020 तक) रिपोर्टिंग तिथि:- 16-Oct-20

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

1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मे०वा०)

क्षेत्र	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
दिनांक	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)
05-10-2020	51053	63	49642		39353		21916		2759	252	164723	315
06-10-2020	50531	423	49763		40123		22318		2766	187	165501	610
07-10-2020	52801	1070	49704		40444		21780		2868	6	167597	1076
08-10-2020	53271	440	50722		39615		22494	172	2955	2	169057	614
09-10-2020	51582	775	50418		39433		22717		2938	166	167088	941
10-10-2020	52570	448	49972		37928		22647		3008	145	166125	593
11-10-2020	50366		47335		33604		22180	63	2892	7	156377	70

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)
05-10-2020	1174	208	1141	46	904	132	449	137	51	24	3719	548
06-10-2020	1143	204	1157	52	954	133	452	144	51	26	3758	558
07-10-2020	1205	207	1163	48	938	132	457	137	53	28	3816	552
08-10-2020	1174	200	1174	41	929	132	463	130	54	25	3794	527
09-10-2020	1170	196	1184	55	926	117	473	125	56	24	3810	518
10-10-2020	1164	195	1175	36	869	84	473	123	56	23	3737	461
11-10-2020	1123	195	1120	29	757	83	464	117	54	23	3518	447

3. आवृत्ति (प्रतिशत समय में)

तिथि	49.8-49.9	<49.9	49.9-50.05	>50.05	Average	FVI
	ऑ० इं० ग्रिड	ऑ० इं० ग्रिड	ऑ० इं० ग्रिड	ऑ० इं० ग्रिड	ऑ० इं० ग्रिड	ऑ० इं० ग्रिड
05-10-2020	6.47	7.53	79.93	12.53	49.99	0.035
06-10-2020	4.36	4.75	77.86	17.40	50.01	0.029
07-10-2020	3.76	3.76	84.07	12.16	50.00	0.024
08-10-2020	4.29	4.39	83.54	12.07	50.00	0.025
09-10-2020	3.31	3.31	84.70	11.99	50.00	0.022
10-10-2020	2.03	2.03	83.95	14.03	50.01	0.019
11-10-2020	0.54	0.54	77.14	22.31	50.03	0.022

*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	05-10-2020		06-10-2020		07-10-2020		08-10-2020		09-10-2020		10-10-2020		11-10-2020	
	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	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage
NR	Punjab	8928	0	8504	0	8794	0	7650	0	7703	0	8280	0	8516	0
	Haryana	7616	0	7730	45	7839	0	7869	0	7593	225	7849	68	7004	0
	Rajasthan	11330	0	11447	0	11458	0	11516	0	11719	0	11423	0	11166	0
	Delhi	4251	0	4147	0	4237	0	4259	0	4204	0	4040	0	3764	0
	UP	18212	0	18841	0	20157	0	19832	0	19561	0	19902	0	18949	0
	Uttarakhand	1858	0	1891	0	1901	0	1897	0	1841	0	1897	0	1655	0
	HP	1405	0	1405	0	1478	0	1457	0	1447	0	1431	0	1295	0
	J&K	2489	0	2397	0	2464	0	2680	0	2669	0	2641	0	2595	0
	Chandigarh	212	0	210	0	213	0	217	0	214	0	208	0	189	0
WR	Chhattisgarh	3374	0	3411	0	3255	0	3577	0	3709	0	3615	0	3621	0
	Gujarat	16309	0	16361	0	16248	0	16769	0	16745	0	16742	0	16365	0
	MP	9724	0	9767	0	9779	0	9913	0	10089	0	10171	0	10201	0
	Maharashtra	19753	0	20003	0	20318	0	20635	0	20505	0	20419	0	17571	0
	Goa	478	0	469	0	476	0	487	0	497	0	498	0	411	0
	DD	323	0	334	0	346	0	309	0	342	0	338	0	305	0
	DNH	785	0	795	0	798	0	799	0	786	0	801	0	778	0
	Essar steel	795	0	791	0	807	0	789	0	802	0	813	0	813	0
SR	Andhra Pradesh	7780	0	8176	0	8110	0	8450	0	8387	0	7707	0	6511	0
	Telangana	9680	0	9791	0	8688	0	8469	0	8928	0	8335	0	6744	0
	Karnataka	8670	0	9115	0	9495	0	9667	0	9923	0	8180	0	6676	0
	Kerala	3443	0	3528	0	3408	0	3351	0	3437	0	3307	0	2979	0
	Tamil Nadu	13936	0	14415	0	14373	0	14064	0	13799	0	13309	0	12041	0
	Pondy	369	0	391	0	383	0	386	0	383	0	380	0	335	0
ER	Bihar	5625	0	5550	0	5410	0	5630	0	5600	0	5743	0	5721	0
	DVC	3093	0	3147	0	3083	0	3176	0	3014	0	3099	0	3191	0
	Jharkhand	1396	0	1478	0	1421	0	1424	0	1424	0	1444	0	1482	63
	Odisha	4537	0	4459	0	4402	0	4462	0	4608	0	4343	0	4563	0
	West Bengal	7858	0	8049	0	7918	0	8267	0	8330	0	8759	0	8131	0
	Sikkim	89	0	92	0	91	0	92	0	98	0	89	0	76	0
NER	Arunachal Pradesh	108	1	103	1	110	2	120	1	125	1	127	1	121	1
	Assam	1773	220	1761	165	1869	15	1899	12	1924	111	1961	96	1870	6
	Manipur	206	1	204	1	207	2	215	0	202	2	204	2	193	2
	Meghalaya	328	0	329	0	334	1	334	0	344	0	333	0	317	0
	Mizoram	97	1	98	1	101	1	97	1	95	1	99	1	85	1
	Nagaland	142	1	135	1	128	1	150	0	127	1	130	1	135	3
	Tripura	271	2	273	1	289	5	300	5	303	1	301	1	301	2

6. Energy Consumption in States (MUs)

Region	States	05-10-2020	06-10-2020	07-10-2020	08-10-2020	09-10-2020	10-10-2020	11-10-2020
NR	Punjab	189.9	185.0	179.5	156.0	157.1	169.1	179.0
	Haryana	167.2	169.4	172.1	171.0	169.1	167.9	157.1
	Rajasthan	240.2	245.4	246.6	244.8	249.1	243.1	229.6
	Delhi	90.3	89.1	90.8	90.1	89.4	86.7	81.6
	UP	368.1	335.4	394.1	390.2	385.0	378.7	365.3
	Uttarakhand	38.3	38.1	39.0	38.4	37.9	38.0	34.3
	HP	29.5	29.9	30.8	31.0	30.2	29.8	27.5
	J&K	46.2	47.0	47.5	48.4	48.6	47.0	45.3
	Chandigarh	4.2	4.1	4.2	4.2	4.2	4.0	3.5
WR	Chhattisgarh	80.9	81.7	80.1	82.4	84.3	85.3	84.5
	Gujarat	361.1	364.6	364.3	369.2	372.2	370.6	361.2
	MP	218.2	219.0	218.3	222.6	224.9	227.4	226.0
	Maharashtra	428.6	438.1	446.3	448.2	448.6	438.2	396.7
	Goa	9.6	9.7	9.7	9.9	10.2	9.8	8.4
	DD	7.1	7.4	7.6	4.9	7.5	7.6	6.9
	DNH	18.1	18.4	18.5	18.6	18.4	18.1	18.3
	Essar steel	17.4	18.1	18.3	18.0	18.1	18.2	18.1
SR	Andhra Pradesh	164.6	173.4	172.9	178.9	179.0	166.3	145.7
	Telangana	195.8	199.5	179.1	174.9	178.0	169.8	143.1
	Karnataka	165.7	176.3	180.5	185.9	185.9	159.4	133.2
	Kerala	68.2	69.9	71.0	70.1	68.0	68.1	60.7
	Tamil Nadu	302.5	327.2	327.0	310.9	307.1	297.1	267.0
	Pondy	7.3	8.0	7.8	7.9	8.1	7.9	7.3
ER	Bihar	107.0	109.2	112.8	113.4	113.5	113.8	112.9
	DVC	63.3	64.0	63.3	65.1	65.7	65.1	66.5
	Jharkhand	27.9	29.1	28.6	29.4	28.7	28.3	29.6
	Odisha	91.4	89.4	90.7	89.9	92.1	92.5	91.6
	West Bengal	158.1	159.5	160.3	164.0	171.6	172.3	162.6
	Sikkim	1.2	1.2	1.3	1.3	1.3	1.3	1.0
NER	Arunachal Pradesh	1.9	2.0	2.2	2.2	2.1	2.2	2.3
	Assam	32.0	31.5	33.0	34.4	35.8	36.0	34.2
	Manipur	2.7	2.9	2.8	2.7	2.8	2.7	2.8
	Meghalaya	5.9	6.0	6.1	5.9	5.9	5.8	5.7
	Mizoram	1.5	1.6	1.7	1.6	1.5	1.6	1.5
	Nagaland	2.4	2.5	2.6	2.5	2.5	2.5	2.5
	Tripura	4.8	4.7	5.1	5.0	5.4	5.3	4.9
ALL INDIA TOTAL		**3719.0**	**3758.4**	**3816.2**	**3793.8**	**3809.5**	**3737.5**	**3518.1**

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

सासाहिक रिपोर्ट (05 अक्टूबर 2020 से 11 अक्टूबर 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	05-10-2020	06-10-2020	07-10-2020	08-10-2020	09-10-2020	10-10-2020	11-10-2020
East to North	-110.6	-105.2	-112.0	-94.6	-86.5	-85.3	-70.0
East to West	27.9	15.9	24.6	20.5	30.5	48.1	48.4
East to South	-90.0	-98.9	-93.3	-91.9	-88.6	-84.8	-70.1
East to North-East	-10.2	-9.5	-9.7	-13.9	-21.3	-21.0	-17.4
North-East to North	-14.5	-14.4	-14.5	-14.8	-14.5	-14.6	-14.6
West to North	-201.8	-194.3	-218.7	-212.6	-225.9	-241.5	-257.7
West to South	-66.2	-74.8	-63.2	-81.5	-73.3	-46.2	-13.4

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

साप्ताहिक रिपोर्ट (05 अक्टूबर 2020 से 11 अक्टूबर 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)
05-10-2020	46.5	1939	-2.2	-218	-94	-25.2	-1068	-1050
06-10-2020	49.3	2055	-2.3	-263	-95	-25.4	-1093	-1059
07-10-2020	43.9	1830	-2.0	-235	-81	-25.2	-1082	-1050
08-10-2020	41.4	1724	-1.6	-242	-66	-25.4	-1090	-1058
09-10-2020	38.0	1583	-1.9	-228	-77	-25.4	-1088	-1056
10-10-2020	38.2	1590	-0.8	-225	-32	-25.9	-1102	-1079
11-10-2020	37.1	1545	-1.8	-236	-74	-25.2	-1075	-1051
कुल Total	**294.4**		**-12.4**			**-177.7**		

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 CEA Grid Standards
				Date	Time	Date	Time	Time				
1	NER	132 kV Lekhi - Pare Line	POWERGRID & DoP AP	05-Oct-20	03:56	05-Oct-20	04:25	00:29	Capital area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare Line. (132 kV Pare - Itanagar line & 132 kV Ranganadi - Itanagar line were under outage due to tower collapse since 12.07.20 & 132 kV Nirjuli - Gohpur line was kept open to control loading of 132 kV Lekhi - Pare Line). At 03:56 Hrs on 05.10.20, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Capital area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	**GD-1**
2	NER	220 kV BTPS - Rangia 1&2 lines	AEGCL	5-Oct-20	05:50	5-Oct-20	05:59	00:09	Rangia area of Assam Power System was connected with the rest of NER Grid through 220 kV BTPS - Rangia 1&2 lines, 132 kV Rangia - Motonga line and 132 kV Dhaligaon-Bornagar line. 132 kV Kamalpur -Rangia D/C, 132 kV Rangia- Rowta line, 132 kV Rowta - Sipajhar line and 132kV Nalbari-Dhaligaon line were kept open due to system requirement.At 05:50 Hrs on 05.10.2020, 220 kV BTPS - Rangia 1&2 lines, 132 kV Rangia - Motonga line and 132 kV Dhaligaon- Bornagar line tripped. Due to tripping of these elements, Rangia area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	80	**GD-1**
3	NER	132 kV Hailakandi-Panchgram line 132 kV Dullavchera-Hailakandi line 132 kV Hailakandi-Silchar D/C lines.	AEGCL	9-Oct-20	14:20	9-Oct-20	14:30	00:10	Hailakandi area of Assam Power System was connected with the rest of NER Grid through 132 kV Hailakandi-Panchgram line, 132 kV Dullavchera-Hailakandi line &132 kV Hailakandi-Silchar D/C lines. At 14:20 Hrs on 09.10.2020, 132 kV Hailakandi-Panchgram line, 132 kV Dullavchera-Hailakandi line &132 kV Hailakandi-Silchar D/C Lines tripped. Due to tripping of these elements, Hailakandi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	24	**GD-1**
4	NER	132 kV Balipara - Tenga line	NEEPCO & DoP,	10-Oct-20	08:04	10-Oct-20	08:39	00:35	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 08:04 Hrs on 10.10.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	**GD-1**
5	NER	132 kV Lekhi - Pare Line	POWERGRID & DoP AP	10-Oct-20	12:23	10-Oct-20	12:47	00:24	Capital area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare Line. (132 kV Pare - Itanagar line & 132 kV Ranganadi - Itanagar line were under outage due to tower collapse since 12.07.20 & 132 kV Nirjuli - Gohpur line was kept open to control loading of 132 kV Lekhi - Pare Line). At 12:23 Hrs on 10.10.20, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Capital area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	42	**GD-1**
6	SR	230 KV TTN AUTO-TTPS line-2 230 KV TTN AUTO-TTPS line-1 230 KV TTN AUTO-KAYTHAR line 230 KV TTN AUTO SS BUS-1 230 KV TTN AUTO SS BUS-2 230/110 KV ATR-1 @ TTN AUTO SS 230/110 KV ATR-2 @ TTN AUTO SS 400KV KKNP-Tirunelveli line 2 230KV TTPS-KKNP line 230KV KKNP-S.R.PUDDUR line	TAMILNADU	9-Oct-20	22:10	9-Oct-20	23:35	01:25	At 22:10 Hrs, R Phase CT Blast occured on TTN AUTO-TTPS line 2 @TTN AUTO SS end, Busbar Protection got operated resulting into tripping of both buses as 230KV TTN AUTO SS which resulted into tripping of TTN AUTO- TTPS 1&2 and TTN AUTO - KAYTHAR line and all the ICTs . Fault current extended which resulted into tripping of 230KV TTPS-KKNP line (tripped at both the ends).Fault current extended further resulting into 400KV KKNP-Tirunelveli line 2 getting tripped (Line was holding at Tirunelveli end). Relay readings indicates line tripped at 0 km from KKNP.Also 230KV KKNP-S.R.PUDDUR line got tripped (Line was holding at S.R. PUDDUR end)	0	0	**GI-I**
7	WR	220kV Bus-1 Bhandup GIS 220kV Bus-2 Bhandup GIS 220kV Bhandup-Borivali-1 220kV Bhandup-Mulund-1 220/22kV Transformer-1 220/22kV Transformer-2 220/22kV Transformer-3 220/22kV Transformer-4	Maharastra	5-Oct-20	12:46	5-Oct-20	12:58	00:12	As intimated by SLDC Kalwa at 12:46 Hrs, all connected feeders at 220kV Bhandup GIS tripped, at the time of T/F-4 bus isolator operation (HDS1) bus fault occurred. The feeders tripped and restoration status is indicated at Item-5. The event resulted in load loss of about 83 MW for 16 minutes (As intimated by SLDC Kalwa).	0	83	GD-1
8	NR	Unit 1 (210 MW) 400kV Anpara(UP) Unit 2 (210 MW) 400kV Anpara(UP) Unit 3 (210 MW) 400kV Anpara(UP) Unit 4 (500 MW) 400kV Anpara(UP) Unit 5(500 MW) 400kV Anpara(UP) ICT 1 (100 MVA) 400/132kV 400kV Anpara(UP)	Uttar Pradesh	5-Oct-20	08:51	5-Oct-20	12:02	03:11	132kV Bus bar protection operated due to fault in 132 kV Anpara - Rihand ckt2 which was extended to 132KV Bus as informed by SLDC, UP. In this connection, 100MVA ICT-1 tripped along with Bus coupler. Subsequently, Unit-1,2,3 (210MW) each and Uni – 4, 5 (500MW) each tripped due to this, 1400MW generation loss occurred at Anpara T.	1400	Nil	GD-1