



National Load Despatch Centre  
पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)

CIN No.: U40105DL2009GOI188682

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

Ref:POSOCO/NLDC/SO/Weekly Report

Date: 18<sup>th</sup> March 2016

To,

1. महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड , कोलकाता - 700033  
General Manager, ERLDC, 14 Golf Club Road, Tollygunge, 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. महाप्रबंधक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र , अंधेरी, मुंबई - 400093  
General Manager, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिह, लोअर नोंग्रह , लापलंग, शिलोंग - 793006  
General Manager, 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 7<sup>th</sup> March to 13<sup>th</sup> March 2016.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.- 5.5.1 के प्रावधान के अनुसार, 07 मार्च से 13 मार्च 2016, 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 7<sup>th</sup> March to 13<sup>th</sup> March 2016, is available at the NLDC website, at the following link.

<http://www.nldc.in/attachments/article/267/Weekly%20070316%20to%20130316.pdf>

Thanking You.

Yours faithfully,

for DGM (SO)

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (07 मार्च से 13 मार्च - 2016 तक)

रिपोर्टिंग तिथि:- 18-Mar-16

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

1. अधिकतम मांग आपूर्ति और आधिकतम कमी (मे०वा०)

क्षेत्र	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी
	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)
07-03-2016	33986	1448	39271	180	36316	374	17481		2234	111	129288	2113
08-03-2016	35595	613	40641	191	36586	450	17108	150	2170	163	132100	1567
09-03-2016	36155	953	42815	174	37270	629	17289	300	2170	163	135699	2219
10-03-2016	36012	1287	42865	305	36355	500	17779	687	2252	91	135263	2870
11-03-2016	33917	504	42919	399	36437	500	17871	200	2301	42	133445	1645
12-03-2016	31265	473	39772	216	35864	450	18138	60	2236	89	127275	1288
13-03-2016	33017	1386	40175	119	36148	159	16387	331	2199	120	127926	2115

2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि०यू०)

क्षेत्र / तिथि	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन
	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)
07-03-2016	765	104	973	31	878	55	354	23	35	6	3004	219
08-03-2016	777	105	1003	19	887	61	356	25	37	5	3060	215
09-03-2016	814	107	1022	34	901	61	368	22	37	5	3142	228
10-03-2016	819	106	1032	33	899	60	370	20	39	6	3158	225
11-03-2016	802	107	1038	34	902	63	368	26	39	5	3149	234
12-03-2016	702	122	1006	28	893	57	372	34	39	4	3011	245
13-03-2016	734	139	968	24	887	75	370	28	37	4	2997	270

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
07-03-2016	5.41	5.94	72.07	21.99	50.00	0.044
08-03-2016	9.88	10.00	72.07	21.99	49.99	0.044
09-03-2016	14.43	15.30	72.16	12.53	49.97	0.058
10-03-2016	16.71	18.28	71.17	10.56	49.96	0.065
11-03-2016	24.04	26.18	60.66	13.16	49.95	0.087
12-03-2016	4.94	5.35	66.06	28.59	50.01	0.044
13-03-2016	6.38	7.94	70.32	21.74	50.02	0.042

\*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

1. 400 kV JPL(II)-Tamnar-III was first time charged on 09/03/16 at 1809 hrs
2. 765 kV Gaya-Varanasi (LILo of 765 kV Gaya-Fatehpur at Varanasi) was first time charged on 10/03/16 at 1125 hrs

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

Region	Date	07-03-2016		08-03-2016		09-03-2016		10-03-2016		11-03-2016		12-03-2016		13-03-2016	
	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	4184	0	4572	0	5275	0	4955	0	4881	0	3470	0	3721	0
	Haryana	5501	0	5962	0	6032	0	6077	0	5609	0	5070	0	5611	0
	Rajasthan	9116	0	9158	0	9530	0	9508	0	9479	0	8678	0	8786	0
	Delhi	3128	0	3159	0	3339	0	3270	0	3373	0	3120	0	3122	0
	UP	10463	2390	11048	1865	11445	965	10979	1525	11285	1120	10639	640	10302	1690
	Uttarakhand	1686	0	1683	0	1697	0	1736	0	1740	0	1525	0	1628	0
	HP	1292	0	1287	0	1345	0	1352	0	1371	0	1107	0	1319	0
	J&K	2004	501	1973	493	1991	498	2002	500	1892	473	1819	455	1922	481
Chandigarh	167	0	179	0	183	0	182	0	184	0	166	0	175	0	
WR	Chhattisgarh	3436	96	3531	96	3557	96	3459	148	3440	0	3652	96	3132	0
	Gujarat	12503	0	13329	5	13237	0	13533	19	13528	33	13309	9	13239	0
	MP	7948	0	7800	0	8273	0	8312	0	8349	0	7903	0	7127	0
	Maharashtra	18786	4	19140	3	19522	3	19277	4	19646	4	19510	4	18940	3
	Goa	422	0	453	0	457	0	460	0	470	0	464	0	425	0
	DD	265	0	293	0	305	0	297	0	308	0	302	0	303	0
	DNH	695	0	707	0	712	0	714	0	698	0	728	0	724	0
	Essar steel	474	0	497	0	458	0	449	0	500	0	530	0	547	0
SR	Andhra Pradesh	7020	0	6950	0	7120	0	7068	0	6976	0	7100	0	7016	0
	Telangana	6093	0	6096	0	6261	0	6287	0	6341	0	6206	0	6252	0
	Karnataka	9310	800	9301	450	9435	400	9646	500	9343	800	9068	800	9163	600
	Kerala	3622	0	3705	0	3763	0	3786	0	3517	0	3463	0	3741	0
	Tamil Nadu	14143	0	14320	0	14351	0	14123	120	14173	0	13705	0	14236	0
	Pondy	320	0	318	0	332	0	321	0	332	0	327	0	332	0
ER	Bihar	3497	0	3215	0	3305	100	3274	100	3234	200	3077	0	2875	150
	DVC	2798	0	2415	0	2338	0	2445	0	2426	0	2458	60	2546	0
	Jharkhand	837	0	916	0	976	0	1046	0	976	0	974	0	961	0
	Odisha	3842	0	3805	0	4030	0	4455	0	3942	0	4112	0	3617	0
	West Bengal	6990	0	7127	0	7144	0	7252	26	7011	0	7558	0	6960	31
	Sikkim	101	0	105	0	109	0	94	0	97	0	126	0	100	0
NER	Arunachal Pradesh	115	2	103	2	103	2	108	2	107	1	105	1	106	2
	Assam	1301	67	1254	108	1254	108	1343	25	1313	55	1359	25	1282	73
	Manipur	150	1	148	2	148	2	149	1	146	1	147	1	143	2
	Meghalaya	299	0	311	0	311	0	298	0	300	0	285	0	301	0
	Mizoram	83	2	79	1	79	1	80	1	81	0	82	1	78	3
	Nagaland	105	1	98	2	98	2	95	1	96	1	99	1	98	2
	Tripura	217	2	222	3	222	3	239	1	241	1	212	6	227	2

## 6. Energy Consumption in States (MUs)

Region	States	07-03-2016	08-03-2016	09-03-2016	10-03-2016	11-03-2016	12-03-2016	13-03-2016
NR	Punjab	86.2	95.6	103.0	101.5	93.7	73.2	74.3
	Haryana	94.8	105.3	108.3	111.1	106.8	85.4	95.6
	Rajasthan	196.4	197.3	200.5	202.3	197.4	185.7	193.1
	Delhi	56.9	59.6	61.4	62.8	63.0	56.9	59.6
	UP	231.0	217.9	237.8	238.6	238.6	214.5	212.3
	Uttarakhand	32.8	33.2	34.2	34.1	33.7	26.9	31.4
	HP	22.5	23.4	24.4	24.3	24.8	20.3	24.9
	J&K	41.1	41.1	41.2	40.9	40.3	35.5	39.9
	Chandigarh	3.0	3.3	3.4	3.4	3.4	3.2	3.2
WR	Chhattisgarh	78.7	78.0	84.4	85.4	86.9	85.2	69.8
	Gujarat	283.9	287.6	298.8	303.3	304.0	296.6	291.6
	MP	166.8	194.2	176.7	179.7	182.8	164.2	157.7
	Maharashtra	402.2	401.3	420.0	421.4	421.4	417.0	406.8
	Goa	9.1	8.9	9.3	9.5	9.8	9.8	9.7
	DD	5.4	6.7	6.8	6.7	6.9	6.9	6.6
	DNH	16.4	16.6	16.7	16.6	16.3	16.2	15.1
	Essar steel	10.4	9.3	9.3	9.3	9.6	9.9	11.1
SR	Andhra Pradesh	151.5	150.9	152.6	153.7	155.1	152.9	151.5
	Telangana	139.7	138.9	143.0	143.2	145.6	142.6	143.9
	Karnataka	205.0	209.4	210.4	210.1	208.4	207.8	205.5
	Kerala	70.9	72.6	74.1	74.7	73.3	71.0	74.0
	Tamil Nadu	303.8	308.8	314.4	310.6	312.8	311.2	305.1
	Pondy	6.8	6.6	6.8	7.0	7.0	7.2	6.8
ER	Bihar	64.3	60.8	64.1	63.7	61.9	62.4	57.0
	DVC	57.9	55.4	59.3	60.5	54.6	59.0	57.0
	Jharkhand	20.2	19.8	21.7	21.8	22.1	19.2	19.6
	Odisha	73.2	77.8	80.0	79.8	81.8	80.5	85.6
	West Bengal	137.1	141.2	140.7	142.5	146.5	150.2	149.2
	Sikkim	1.0	1.2	1.7	1.7	1.2	1.2	1.3
NER	Arunachal Pradesh	1.9	2.0	2.0	2.0	2.0	2.0	1.9
	Assam	19.8	21.9	21.9	22.8	23.1	22.1	21.3
	Manipur	2.2	2.2	2.2	2.3	2.3	2.4	2.3
	Meghalaya	5.3	5.0	5.0	5.0	5.0	4.9	5.1
	Mizoram	1.3	1.3	1.3	1.3	1.4	1.4	1.2
	Nagaland	1.7	1.8	1.8	1.8	1.8	2.1	1.9
	Tripura	3.0	3.2	3.2	3.4	3.6	3.8	3.5
	<b>ALL INDIA TOTAL</b>	<b>3004.1</b>	<b>3059.9</b>	<b>3142.4</b>	<b>3158.7</b>	<b>3148.8</b>	<b>3011.1</b>	<b>2996.4</b>

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

साप्ताहिक रिपोर्ट (07 मार्च से 13 मार्च - 2016 तक) [2]  
(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

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

दिनांक	07-03-2016	08-03-2016	09-03-2016	10-03-2016	11-03-2016	12-03-2016	13-03-2016
East to North	-38.0	-32.0	-32.9	-25.0	-26.0	-9.0	-24.4
East to West	-6.0	-9.0	-5.5	-1.0	-7.0	4.0	-0.3
East to South	-63.0	-57.0	-63.5	-64.0	-62.0	-65.0	-66.2
East to North-East	-4.0	-6.0	-4.9	-6.0	-8.0	-7.0	-4.9
North to North-East	0.0	0.0	0.0	0.0	0.0	0.0	-0.2
West to North	-76.5	-75.9	-87.4	-78.8	-77.5	-72.3	-72.2
West to South	-62.6	-64.0	-61.1	-68.1	-68.1	-66.8	-77.2

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

**साप्ताहिक रिपोर्ट (07 मार्च से 13 मार्च - 2016 तक) 2**

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

दिनांक Date	भूटान BHUTAN		नेपाल NEPAL			बांग्लादेश BANGLADESH		
	Energy Exchange (In MU)	Day Average (MW)	Energy Exchange (In MU)	Day Peak (MW)	Day Average (MW)	Energy Exchange (In MU)	Day Peak (MW)	Day Average (MW)
07-03-2016	0.8	32	-6.4	-31	-268	-10.4	-468	-432
08-03-2016	0.2	8	-6.3	-29	-263	-11.4	-478	-474
09-03-2016	0.5	23	-6.3	-300	-262	-11.4	-484	-474
10-03-2016	0.5	23	-6.3	-292	-263	-11.1	-468	-463
11-03-2016	0.0	-1	-6.8	-301	-285	-11.1	-470	-462
12-03-2016	0.9	36	-6.2	-289	-258	-11.3	-472	-472
13-03-2016	1.2	49	-6.2	-294	-257	-11.1	-467	-464
<b>कुल Total</b>	<b>4.0</b>		<b>-44.5</b>			<b>-77.8</b>		

### 8). Major Grid Incidences (Provisional):-

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid
				Date	Time	Date	Time					
1	ER/SR	1) HVDC Talcher-Kolar Pole-I 2) Sterlite Unit-I	PG	08.03.2016	01:29	08.03.2016	02:12	00:43	HVDC Talcher - Kolar Pole -I tripped at 01:29 Hrs on 08/03/16 due to valve cooling problem at Talcher end.Prior to tripping HVDC Talcher-Kolar flow was 1950 MW as the Pole Tripped it came to Ground return mode and then to metallic return mode and flow became 950 MW.GMR Generation reduced by 165 MW (from 520 MW to 355 MW) .JITPL Generation reduced by 200 MW (from 815 MW to 615 MW ).STERLITE Generation reduced from 300 MW to 0 MW as the machine was not running on full load and as it received the SPS signal for reduction of 200 MW machine got tripped .	650	1000	GI-II
2	ER/SR	1) HVDC Talcher-Kolar Pole-II 2) Talcher Unit-VI	PG	08.03.2016	05:44	08.03.2016	07:07	01:23	HVDC Talcher - Kolar Pole -II tripped due to line fault from Kolar end.(distance 94.28km tower no: 3441)Prior to tripping HVDC Talcher-Kolar flow was 2050 MW as the Pole Tripped it came to Ground return mode flow became 110 MW. At 07:07 hrs it came to metallic return mode and flow became 1200 MW.	1000	1100	GI-II
3	ER	1)220 KV Waria-Bidhannagar D/C 2)220 KV Waria- Mejia D/C 3)220 KV Waria-Parulia D/C 4) Waria Unit-IV	DVC	09.03.2016	23:47	10.03.2018	00:02	00:15	While desynchronizing U#4 (210 MW) of DTPS (Waria) due to boiler tube leakage at 23:47 Hrs. , 09.03.16 , Y phase pole of CB of corresponding G.T got stuck . To isolate the unit 220 KV Bus at Waria was made dead by opening all emanating 220 KV lines Traction power of 20 MW got interrupted but immediately normalized by feed extension from respective remote ends of Kalyaneswari and Burdwan . 132 KV Industrial load of Alloy Steel Plant of 40 MW also got interrupted along with 20 MW of local 33 KV load.		80	GD-I
4	ER/WR	1)765 KV Angul-Jharsuguda D/C 2)765 KV Dharamjaigarh- Jharsuguda D/C 3)1500 MVA X2 , 765/400 KV ICT s at Jharsuguda	PG	10.03.2016	06:49	11.03.2018	19:33	12:43	Cable trench of control cable of 765 KV switchyard at Jharsuguda caught fire at around 06:40 hrs. resulting into control DC & AC failure at Jharsuguda . To de energize 765 KV system , 1) 765 KV Angul-Jharsuguda D/C switched off at 06:49 hrs . from Angul 2) 765 KV Dharamjaigarh- Jharsuguda D/C switched off at 06:51 hrs from Dharamjaigarh 3) 1500 MVA X2 , 765/400 KV ICT s opened from 400 KV side			GI-II
5	ER/SR	1) 400kV Rengali-Indravati 2)315MVA ICT-1 & 2 at Mendhasal 3)HVDC Gajuwaka Pole 1&2 4) 400 kV Jeypore-Gajuwaka 1&2	GRIDCO/PG	10.03.2016	12:24	10.03.2018	13:45	01:21	400kV Rengali-Indravati tripped and subsequently 315MVA ICT-1 & 2 at Mendhasal carrying 270MW tripped at 12:29 hrs. Voltage at Jeypore went down. With this, HVDC Gajuwaka Pole 1&2 blocked along with tripping of Jeypore-Gajuwaka 1&2 at 12:31 hrs. Loss of Load approx.. 600MW and Generation loss of 235MW (UK-160, UI-50 & Ballimela-25MW) reported. South Odisha 220kV system also collapsed.	235	600	GD-I
6	ER	1) 400 KV Sterlite-Meramundali-I & II 2) Sterlite Unit#2	Sterlite	12.03.2016	14:58	12.03.2018	16:26	01:28	400 KV Sterlite-Meramundali-II (R-N Fault) & 400 KV Sterlite-Meramundali-I (B-N Fault) tripped.Before tripping of Ckt.I, Sterlite Unit#2 was generating 400 MW approx. These two lines were dedicated for power evacuation of Unit 2, but as both lines tripped, Sterlite Unit#2 also tripped.	400		GD-I

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid
				Date	Time	Date	Time	Time				
7	NR	1.400kV Lucknow(PG) - Unnao-1 2.400kV Lucknow(PG) - Unnao-2 3.400kV Lucknow(PG) - Lucknow(UP) 4.400kV Lucknow(PG) - Lucknow-1(765KV) 5.400kV Lucknow(PG) - Lucknow-2(765KV) 6.220kV Lucknow(PG) - Chinhat 7.220kV Lucknow(PG) - BKT 8.400kV Lucknow(PG) - Gorakhpur-1 9.400kV Lucknow(PG) - Gorakhpur-2 10.400kV Lucknow(PG) - Gorakhpur-3 11.400kV Lucknow(PG) - Gorakhpur-4 12.400kV Lucknow(PG) - Sultanpur 13.400kV Lucknow(PG) - Sohawal-1 14.400kV Lucknow(PG) - Sohawal-2 15.400kV Lucknow(PG) - Roza 16.400kV Lucknow(PG) - Shahjahanpur 17.765/400kV, 1000MVA, ICT #1 at Unnao(UP) 18.765/400kV, 1000MVA, ICT #1 at Unnao(UP)	UPPTCL/PG	13.03.2016	09:22	13.03.2016	11:06	01:44	All 400kV & 220kV elements tripped at Lucknow(PG) because of Bus fault which occurred due to failure of Bus-1 Y-phase insulator string near Bus Gantry tower. Bus Bar protection was found in blocked condition which resulting tripping of all 400 KV and 220 KV Lines either from remote end or in reverse zone from Lucknow(PG) end. Both 765/400kV ICTs at Unnao(UP) also tripped on overcurrent protection operation.		220	GD-I