पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 13.11.2016
Date of Reporting : 14.11.2016

I. Regional Availability/Demand:

Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
37071	493	37564	50.10	29203	704	29907	0.00	791.4	10.48

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others $	Total					
Punjab	36.03	9.34	0.26	45.63	38.30	39.27	0.97	84.90	0.00
Haryana	28.74	0.58	0.00	29.32	72.92	70.97	-1.95	100.30	0.00
Rajasthan	110.47	3.98	15.89	130.34	71.26	72.90	1.64	203.24	0.00
Delhi	14.22		0.00	14.22	36.78	37.48	0.70	51.70	0.00
UP	157.86	6.81	0.00	164.67	88.88	89.23	0.35	253.90	0.00
Uttarakhand		8.42	0.00	12.81	17.68	17.49	-0.19	30.30	0.00
HP		4.33	2.04	6.36	15.79	15.95	0.16	22.31	0.02
J & K		6.96	0.00	6.96	34.12	34.90	0.78	41.86	10.46
Chandigarh				0.00	2.98	2.88	-0.11	2.88	0.00
Total	**347.32**	**40.42**	**18.19**	**410.31**	**378.72**	**381.08**	**2.36**	**791.39**	10.48

* Shortage furnished by the respective constituent.$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)		Shortage (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	4078	0	-184	-349	2777	0	7	-348	4078	19:00	0
Haryana	5079	0	-499	-58	3077	0	-36	-293	5569	7:00	0
Rajasthan	8560	0	62	546	8073	0	127	562	9746	8:00	0
Delhi	2558	0	-44	-354	1527	0	113	-837	2707	12:00	0
UP	12193	0	159	-249	10251	310	65	129	12193	19:00	0
Uttarakhand	1466	0	-65	181	1070	0	4	275	1541	7:00	0
HP	1064	13	-5	-157	766	0	20	328	1217	9:00	0
J&K	1921	480	25	425	1576	394	-86	351	2000	8:00	500
Chandigarh	152	0	-57	-30	87	0	4	-30	160	20:00	0
Total	**37071**	**493**	**-607**	**-46**	**29203**	**704**	**218**	**139**	**37071**	**19:00**	**493**

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

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III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1718	1804	1458	39.38	1641	39.12	0.26
	Rihand I STPS (2*500)	1000	943	744	715	18.41	767	18.40	0.01
	Rihand II STPS (2*500)	1000	963	702	764	18.97	790	19.13	-0.17
	Rihand III STPS (2*500)	1000	963	774	787	19.32	805	19.52	-0.19
	Dadri I STPS (4*210)	840	815	159	163	4.06	169	4.09	-0.02
	Dadri II STPS (2*490)	980	980	344	353	8.48	353	9.07	-0.59
	Unchahar I TPS (2*210)	420	355	278	292	6.73	281	7.47	-0.73
	Unchahar II TPS (2*210)	420	402	284	293	6.84	285	7.51	-0.68
	Unchahar III TPS (1*210)	210	201	135	145	3.36	140	3.77	-0.41
	ISTPP (Jhajjhar) (3*500)	1500	1425	603	598	13.51	563	13.80	-0.29
	Dadri GPS (4*130.19+2*154.51)	830	805	312	376	8.24	343	8.60	-0.36
	Anta GPS (3*88.71+1*153.2)	419	404	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	624	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	1	0	0	0.01	1	0.01	0.00
	Unchahar Solar(10)	10	2	0	0	0.03	1	0.04	-0.01
	Singrauli Solar(15)	15	2	0	0	0.06	2	0.05	0.01
	KHEP(4*200)	800	860	844	0	3.50	146	3.30	0.20
	Sub Total (A)	**12112**	**11462**	**6983**	**5944**	**151**	**6288**	**154**	**-2.98**
B. NPC	NAPS (2*220)	440	404	437	446	9.74	406	9.70	0.04
	RAPS- B (2*220)	440	381	426	428	9.18	383	9.14	0.04
	RAPS- C (2*220)	440	220	234	236	4.94	206	5.28	-0.34
	Sub Total (B)	**1320**	**1005**	**1097**	**1110**	**23.86**	**994**	**24.12**	**-0.26**
C. NHPC	Chamera I HPS (3*180)	540	540	149	0	1.99	83	1.80	0.19
	Chamera II HPS (3*100)	300	301	310	0	1.54	64	1.40	0.14
	Chamera III HPS (3*77)	231	231	225	0	0.81	34	0.75	0.06
	Bairasuil HPS(3*60)	180	179	179	0	0.60	25	0.55	0.05
	Salal-HPS (6*115)	690	138	332	113	3.75	156	3.31	0.44
	Tanakpur-HPS (3*31.4)	94	36	32	57	0.97	41	0.87	0.10
	Uri-I HPS (4*120)	480	78	145	25	2.11	88	1.86	0.25
	Uri-II HPS (4*60)	240	55	121	78	1.38	57	1.33	0.05
	Dhauliganga-HPS (4*70)	280	280	281	0	1.33	55	1.26	0.07
	Dulhasti-HPS (3*130)	390	383	392	0	4.18	174	4.00	0.18
	Sewa-II HPS (3*40)	120	119	44	0	0.24	10	0.36	-0.13
	Parbati 3 (4*130)	520	220	227	0	0.66	28	0.60	0.06
	Sub Total (C)	**4065**	**2559**	**2437**	**273**	**20**	**815**	**18**	**1.47**
D.SJVNL	NJPC (6*250)	1500	1605	1601	0	9.08	378	9.10	-0.02
	Rampur HEP (6*68.67)	412	442	372	0	2.49	104	2.55	-0.06
	Sub Total (D)	**1912**	**2047**	**1973**	**0**	**11.57**	**482**	**11.65**	**-0.08**
E. THDC	Tehri HPS (4*250)	1000	1075	1030	0	6.39	266	6.30	0.09
	Koteshwar HPS (4*100)	400	91	91	93	2.20	91	2.19	0.01
	Sub Total (E)	**1400**	**1166**	**1121**	**93**	**8.59**	**358**	**8.49**	**0.10**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	532	1104	400	13.21	551	12.77	0.44
	Dehar HPS (6*165)	990	159	495	150	3.87	161	3.82	0.06
	Pong HPS (6*66)	396	182	330	66	4.36	182	4.36	0.00
	Sub Total (F)	**2765**	**873**	**1929**	**616**	**21.45**	**894**	**20.95**	**0.50**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	25	0	0.67	28	0.64	0.03
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	4.97	207	4.98	-0.01
	Malana Stg-II HPS (2*50)	100	0	0	0	0.33	14	0.33	0.00
	Shree Cement TPS (2*150)	300	0	-1	-1	-0.04	-2	0.00	-0.04
	Budhil HPS(IPP) (2*35)	70	0	37	0	0.23	10	0.23	0.00
	Sub Total (G)	**1662**	**0**	**886**	**-1**	**6.16**	**257**	**6.18**	**-0.02**
H. Total Regional Entities (A-G)		**25237**	**19113**	**16427**	**8035**	**242.09**	**10087**	**243.36**	**-1.28**

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	-0.18	-8
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.07	-3
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	660	660	21.51	896
	Talwandi Saboo (3*660)	1980	616	616	14.82	618
	Thermal (Total)	**6560**	**1276**	**1276**	36.03	**1501**
	Total Hydro	1000	410	355	9.34	389
	Wind Power	0	0	0	0.00	0
	Biomass	288	9	9	0.22	9
	Solar	560	2	2	0.04	2
	Renewable(Total)	**848**	**11**	**11**	**0.26**	**11**
	Total Punjab	**8408**	**1697**	**1642**	**45.63**	**1901**
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	458	465	10.92	455
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	741	742	17.82	743
	Thermal (Total)	**4497**	**1199**	**1207**	**28.74**	**1197**
	Total Hydro	62	10	16	0.58	24
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Renewable(Total)	**40**	**0**	**0**	**0.00**	**0**
	Total Haryana	**4599**	**1209**	**1223**	**29.32**	**1222**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	776	746	18.42	767
	suratgarh TPS (6*250)	1500	578	680	14.78	616
	Chabra TPS (4*250)	1000	842	854	20.59	858
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	158	157	3.98	166
	RAPS A (NPC) (1*100+1*200)	300	166	166	4.14	172
	Barsingsar (NLC) (2*125)	250	227	226	5.31	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	809	823	18.26	761
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	444	410	10.98	458
	Kawai(Adani) (2*660)	1320	604	601	14.01	584
	Thermal (Total)	**8876**	**4604**	**4663**	**110.47**	**4603**
	Total Hydro	550	158	208	3.98	166
	Wind power	4017	329	1251	13.09	546
	Biomass	99	21	21	0.49	21
	Solar	1295	0	0	2.31	96
	Renewable/Others (Total)	5411	350	1272	15.89	662
	Total Rajasthan	**14837**	**5112**	**6143**	**130.34**	**5431**
UP	Anpara TPS (3*210+2*500)	1630	1218	1236	28.76	1199
	Obra TPS (2*50+2*94+5*200)	1194	299	138	4.50	188
	Paricha TPS (2*110+2*220+2*250)	1160	583	571	15.40	642
	Panki TPS (2*105)	210	131	135	3.30	138
	Harduaganj TPS (1*60+1*105+2*250)	665	316	314	8.70	363
	Tanda TPS (NTPC) (4*110)	440	282	282	6.34	264
	Roza TPS (IPP) (4*300)	1200	833	577	17.41	726
	Anpara-C (IPP) (2*600)	1200	999	982	23.13	964
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	282	282	7.52	313
	Anpara-D(2*500)	1000	456	420	10.80	450
	Lalitpur TPS(3*660)	1980	546	585	13.50	563
	Bara(2*660)	1320	572	573	13.70	571
	Thermal (Total)	**12449**	**6517**	**6095**	**153.06**	**6378**
	Vishnuparyag HPS (IPP)(4*110)	440	117	117	2.75	115
	Alaknanada(4*82.5)	330	80	81	1.81	75
	Other Hydro	527	107	68	2.25	94
	Cogeneration	981	200	200	4.80	200
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	Renewable(Total)	**128**	**0**	**0**	**0.00**	**0**
	Total UP	**14855**	**7021**	**6561**	**164.67**	**6861**
Uttarakhand	Other Hydro	1250	512	226	8.42	351
	Total Gas	225	175	188	4.34	181
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.05	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.05	2
	Total Uttarakhand	1802	687	414	12.81	534
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	104	78	2.47	103
	Pragati Gas Turbine (2x104+ 1x122)	330	302	262	6.86	286
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	301	280	5.03	210
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-4	-0.13	-5
	Thermal (Total)	**2917**	**703**	**616**	**14.22**	**592**
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	Renewable(Total)	**18**	**0**	**0**	**0.00**	**0**
	Total Delhi	**2935**	**703**	**616**	**14.22**	**592**

HP	Baspa HPS (IPP) (3*100)	300	30	0	1.51	63
	Malana HPS (IPP) (2*43)	86	70	0	0.40	16
	Other Hydro	372	0	60	2.43	101
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	91	83	2.04	85
	Renewable(Total)	**486**	**91**	**83**	**2.04**	**85**
	Total HP	**1244**	**191**	**143**	**6.36**	**265**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	293	143	4.19	175
	Other Hydro/IPP(including 98 MW Small Hydro)	308	138	93	2.77	115
	Gas/Diesel/Others	190	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)Included in Other Hydro Above	98	0	0	0.00	0
	Renewable(Total)	**98**	**0**	**0**	**0.00**	**0**
	Total J & K	**1398**	**431**	**236**	**7**	**290**
Total State Control Area Generation		**50078**	**17051**	**16978**	**410.31**	**17096**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**5393**	**5627**	**157.79**	**6574**
Total Regional Availability(Gross)		**75315**	**38871**	**30640**	**810.18**	**33758**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**9155**	**982**	**70.63**	**2943**
State Control Area Hydro	**7163**	**2191**	**1638**	**42.45**	**1952**
Total Regional Hydro	**19397**	**11346**	**2620**	**113.09**	**4895**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.10**	**4**
State Control Area Renewable	**7356**	**452**	**1366**	**18.24**	**760**
Total Regional Renewable	**7386**	**452**	**1366**	**18.34**	**764**

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	-500	-500	0	500	0.00	11.99	-11.99
765 KV Gwalior-Agra (D/C)	1888	1790	2404	0	49.54	0.00	49.54
400 KV Zerda-Kankroli	-67	-69	39	145	0.00	1.00	-1.00
400 KV Zerda-Bhinmal	-27	-12	156	164	0.29	0.00	0.29
220 KV Auraiya-Malanpur	-112	-107	0	120	0.00	2.33	-2.33
220 KV Badod-Kota/Morak	-34	-65	20	85	0.00	1.27	-1.27
Mundra-Mohindergarh(HVDC Bipole)	1300	1299	1306	0.00	31.49	0.00	31.49
400 KV RAPPC-Sujalpur	180	150	260	0	4.48	0.00	4.48
765 kV Phagi-Gwalior (D/C)	1243	1134	812	0	33.35	0.00	33.35
Sub Total WR	**3871**	**3620**			**119.14**	**16.58**	**102.56**
400 kV Sasaram - Varanasi	0	0	0	0	0.00	0.00	0.00
400 kV Sasaram - Allahabad	182	48	32	177	0.00	1.17	-1.17
400 KV MZP- GKP (D/C)	35	88	304	65	2.50	0.00	2.50
400 KV Patna-Balia(D/C) X 2	385	527	692	0	13.38	0.00	13.38
400 KV B'Sharif-Balia (D/C)	-121	38	85	121	0.63	0.00	0.63
765 KV Gaya-Balia	124	240	259	0	5.13	0.00	5.13
765 KV Gaya-Varanasi (D/C)	135	380	507	0	8.91	0.00	8.91
220 KV Pusauli-Sahupuri	-199	-157	204	0	3.95	0.00	3.95
132 KV K'nasa-Sahupuri	-24	-26	0	28	0.00	0.52	-0.52
132 KV Son Ngr-Rihand	-30	0	0	33	0.00	0.27	-0.27
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-305	-171	0	308	2.73	3.41	-0.68
400 KV Barh -GKP (D/C)	458	492	534	0	10.64	0.00	10.64
400 kV B'Sharif - Varanasi (D/C)	182	48	32	177	0.00	1.17	-1.17
Sub Total ER	**822**	**1507**			**47.87**	**6.54**	**41.33**
+/- 800 KV BiswanathCharialli-Agra	700	500	700	0.00	13.90	0.00	13.90
Sub Total NER	**700**	**500**			**13.90**	**0.00**	**13.90**
Total IR Exch	**5393**	**5627**			**180.90**	**23.12**	**157.79**

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	**Bhutan**	**Total**	**Through ER**	**Through WR**	**Through ER**	**Through WR**	**Through ER**	**Through WR**
40.51	1.52	42.03	1.14	-12.43	3.72	15.70	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	**Through WR Inclds Mndra**	**Total**	**Through ER(including NER)**	**Through WR**	**Total**	**Through ER (including NER)**	**Through WR**	**Total**
46.89	103.89	150.78	55.23	102.56	157.79	8.34	-1.33	7.01

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	-10	0	0	28	0	0	-0.08

VII. Frequency Profile <---------- % of Time Frequency ---------->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.00	0.00	3.18	40.27	69.20	20.80	6.94	0.00	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum		Frequency	Variation		MAX	MIN	
Freq	**Time**	**Freq**	**Time**	**Hz**	**Index**		(Hz)	(Hz)	
50.18	6.01	49.83	18.11	50.01	0.036	0.059	0.00	0.00	30.80

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	410	12:52	402	5:30	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	13:02	403	17:56	0.0	0.0	4.3	0.0	4.3
Bareilly(PG)400kV	400	421	0:04	395	10:49	0.0	0.0	1.7	0.0	1.7
Kanpur	400	419	0:45	398	10:49	0.0	0.0	0.0	0.0	0.0
Dadri	400	425	1:58	125	10:52	2.6	2.6	25.4	0.0	28.0
Ballabhgarh	400	432	0:49	404	11:21	0.0	0.0	46.6	12.7	46.6
Bawana	400	429	1:58	409	11:21	0.0	0.0	42.3	0.0	42.3
Bassi	400	425	19:42	378	10:50	0.0	0.1	5.8	0.0	5.8
Hissar	400	423	1:58	403	6:25	0.0	0.0	13.4	0.0	13.4
Moga	400	426	0:04	407	11:20	0.0	0.0	28.1	0.0	28.1
Abdullapur	400	427	21:58	408	5:47	0.0	0.0	36.3	0.0	36.3
Nalagarh	400	436	2:02	412	6:55	0.0	0.0	53.5	25.7	53.5
Kishenpur	400	423	0:05	398	6:50	0.0	0.0	12.8	0.0	12.8
Wagoora	400	408	13:04	370	18:10	15.9	64.8	0.0	0.0	15.9
Amritsar	400	434	1:57	411	11:21	0.0	0.0	48.1	18.2	48.1
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	428	23:21	407	11:20	0.0	0.0	24.0	0.0	24.0
Rishikesh	400	418	0:03	396	6:30	0.0	0.0	0.0	0.0	0.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	778	0:50	736	10:49	0.0	0.0	0.0	0.0	0.0
Balia	765	792	0:40	766	6:29	0.0	0.0	0.0	0.0	0.0
Moga	765	808	0:03	773	11:41	0.0	0.0	18.2	0.0	18.2
Agra	765	793	19:42	753	6:28	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	1:59	773	11:21	0.0	0.0	28.5	0.0	28.5
Unnao	765	773	0:48	743	10:54	0.0	0.0	0.0	0.0	0.0
Lucknow	765	803	0:50	772	10:54	0.0	0.0	2.2	0.0	2.2
Meerut	765	810	20:02	758	6:38	0.0	0.0	5.5	0.0	5.5
Jhatikara	765	808	1:58	770	11:10	0.0	0.0	21.0	0.0	21.0
Bareilly 765 kV	765	796	0:50	759	10:56	0.0	0.0	0.0	0.0	0.0
Anta	765	803	1:58	769	9:43	0.0	0.0	11.0	0.0	11.0
Phagi	765	805	20:03	710	10:52	0.1	0.1	1.3	0.0	1.4

Note : "0" in Max / Min Col -> Telemetry Outage

IX. Reservior Parameters:

Name of Reservior	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m^3/s)	Usage (m^3/s)
Bhakra	513.59	445.62	497.32	994.96	508.26	1470.42	200.62	364.92
Pong	426.72	384.05	413.15	600.05	417.47	781.19	63.51	274.96
Tehri	829.79	740.04	820.70	1019.00	815.40	911.00	44.79	140.00
Koteshwar	612.50	598.50	610.63	4.95	610.69	4.95	140.00	144.98
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	56.39	53.75
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	511.69	3.04	508.39	3.50	70.01	125.40

*** NA: Not Available**

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-349	1	0	-349	0	0	-11.62	0.01	-11.60
Delhi	-132	-705	0	-229	-125	0	-6.46	-5.19	-11.64
Haryana	-625	333	0	-310	253	0	-10.00	6.34	-3.66
HP	244	84	0	72	-229	0	5.07	-1.65	3.42
J&K	351	0	0	440	-15	0	9.47	-0.07	9.39
CHD	-30	0	0	-30	0	0	-0.36	-0.05	-0.42
Rajasthan	-7	570	0	-7	553	0	4.42	20.03	24.45
UP	129	0	0	-149	-100	0	-6.44	-0.79	-7.23
Uttarakhand	147	129	0	179	2	0	3.72	3.39	7.11
Total	**-273**	**411**	**0**	**-385**	**339**	**0**	**-12.19**	**22.02**	**9.83**

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-349	-713	6	0	0	0
Delhi	-113	-420	220	-712	0	0
Haryana	-291	-628	337	-85	0	0
HP	342	72	84	-727	0	0
J&K	440	331	0	-15	0	0
CHD	0	-30	0	0	0	-32
Rajasthan	452	-7	1876	537	0	0
UP	156	-703	0	-100	0	0
Uttarakhand	179	147	339	-190	0	0

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	**0.00%**
ER	**0.00%**
Simultaneous	**0.00%**

(ii)%age of times ATC violated on the inter-regional corridors

WR	**0.00%**
ER	**0.00%**
Simultaneous	**0.00%**

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	**0.00%**

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	17
Haryana	2	14
Rajasthan	1	23
Delhi	3	22
UP	7	96
Uttarakhand	5	68
HP	3	25
J & K	1	14
Chandigarh	4	36

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

1. Data of 400kV Vindhyachal-Rihand represents data of new 400kV Sujalpur-RAPPC-1 line for 11.11.16

XV. Weather Conditions For 13.11.2016 :

Normal

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Report for : 13.11.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER