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 13.10.2016
Date of Reporting : 14.10.2016

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
41912	1962	43875	50.05	36803	280	37083	50.09	924.0	11.39

* 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	64.34	13.38		78.31	63.18	63.20	0.02	141.51	0.00
Haryana	43.52	0.78		44.30	97.22	95.86	-1.37	140.16	0.00
Rajasthan	93.00	3.50	19.80	116.30	61.72	65.52	3.80	181.82	2.83
Delhi	19.08			19.08	66.41	66.22	-0.19	85.29	0.02
UP	141.81	17.60		159.42	110.28	112.23	1.95	271.64	0.00
Uttarakhand		11.28		15.71	19.74	20.76	1.03	36.47	0.00
HP		12.50		12.50	14.26	16.26	2.00	28.76	0.00
J & K		10.77	0.00	10.77	27.94	23.41	-4.54	34.17	8.54
Chandigarh				0.00	4.42	4.20	-0.22	4.20	0.00
Total	**361.75**	**69.81**	**19.80**	**456.38**	**465.16**	**467.64**	**2.48**	**924.02**	11.39

* 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	6498	0	105	-60	5186	0	-59	89	6498	19:00	0
Haryana	7277	0	-324	941	4664	0	-54	916	7456	20:00	0
Rajasthan	7719	445	285	673	7814	0	108	627	8137	21:00	37
Delhi	4069	0	42	36	3215	0	50	7	4145	20:00	0
UP	11267	1070	-291	154	12475	0	390	1067	12491	2:00	0
Uttarakhand	1850	0	72	146	1343	0	28	330	1850	19:00	0
HP	1229	0	20	-447	849	0	104	112	1302	8:00	0
J&K	1789	447	-51	160	1120	280	-174	12	1789	19:00	447
Chandigarh	215	0	-19	-20	137	0	-3	0	215	19:00	0
Total	**41912**	**1962**	**-160**	**1584**	**36803**	**280**	**390**	**3160**	**42347**	**20:00**	**490**

* 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	1678	1772	1757	40.39	1683	40.18	0.21
	Rihand I STPS (2*500)	1000	943	1001	1028	22.50	938	22.43	0.07
	Rihand II STPS (2*500)	1000	943	990	1022	22.82	951	22.39	0.43
	Rihand III STPS (2*500)	1000	472	508	505	11.27	470	11.23	0.04
	Dadri I STPS (4*210)	840	815	609	463	11.45	477	12.00	-0.55
	Dadri II STPS (2*490)	980	970	922	643	17.71	738	18.63	-0.92
	Unchahar I TPS (2*210)	420	153	164	168	3.51	146	3.62	-0.11
	Unchahar II TPS (2*210)	420	400	387	415	8.55	356	9.24	-0.69
	Unchahar III TPS (1*210)	210	200	212	205	4.28	178	4.62	-0.35
	ISTPP (Jhajjhar) (3*500)	1500	1425	0	0	0.00	0	0.00	0.00
	Dadri GPS (4*130.19+2*154.51)	830	784	340	324	6.61	276	7.96	-1.35
	Anta GPS (3*88.71+1*153.2)	419	383	352	392	7.96	332	7.96	0.01
	Auraiya GPS (4*111.19+2*109.30)	663	623	150	129	3.26	136	3.45	-0.19
	Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar(10)	10	2	0	0	0.05	2	0.05	0.00
	Singrauli Solar(15)	15	2	0	0	0.07	3	0.05	0.02
	KHEP(4*200)	800	858	858	595	5.46	228	5.00	0.46
	Sub Total (A)	**12112**	**10651**	**8265**	**7646**	**166**	**6913**	**169**	**-2.92**
B. NPC	NAPS (2*220)	440	189	194	135	3.76	157	4.54	-0.78
	RAPS- B (2*220)	440	303	214	217	4.27	178	7.28	-3.01
	RAPS- C (2*220)	440	0	0	0	0.00	0	0.00	0.00
	Sub Total (B)	**1320**	**492**	**408**	**352**	**8.03**	**335**	**11.82**	**-3.79**
C. NHPC	Chamera I HPS (3*180)	540	540	550	0	3.16	132	3.00	0.16
	Chamera II HPS (3*100)	300	301	313	104	2.60	108	2.45	0.15
	Chamera III HPS (3*77)	231	231	230	0	1.52	63	1.41	0.11
	Bairasuil HPS(3*60)	180	179	181	0	1.01	42	0.97	0.05
	Salal-HPS (6*115)	690	198	345	215	5.53	231	4.74	0.79
	Tanakpur-HPS (3*31.4)	94	49	43	62	1.37	57	1.18	0.19
	Uri-I HPS (4*120)	480	109	265	81	2.84	118	2.61	0.23
	Uri-II HPS (4*60)	240	64	120	38	1.57	65	1.54	0.03
	Dhauliganga-HPS (4*70)	280	280	282	0	2.01	84	1.93	0.08
	Dulhasti-HPS (3*130)	390	383	395	296	7.80	325	7.50	0.30
	Sewa-II HPS (3*40)	120	119	102	0	0.33	14	0.36	-0.03
	Parbati 3 (4*130)	520	390	396	0	0.95	40	0.91	0.05
	Sub Total (C)	**4065**	**2842**	**3220**	**795**	**31**	**1280**	**29**	**2.12**
D.SJVNL	NJPC (6*250)	1500	1605	1603	0	13.66	569	13.51	0.14
	Rampur HEP (6*68.67)	412	442	444	0	3.99	166	3.77	0.22
	Sub Total (D)	**1912**	**2047**	**2047**	**0**	**17.65**	**735**	**17.28**	**0.37**
E. THDC	Tehri HPS (4*250)	1000	1071	1075	0	6.67	278	6.50	0.17
	Koteshwar HPS (4*100)	400	88	199	68	2.12	88	2.10	0.02
	Sub Total (E)	**1400**	**1159**	**1274**	**68**	**8.78**	**366**	**8.60**	**0.18**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	808	1072	761	19.65	819	19.39	0.26
	Dehar HPS (6*165)	990	280	660	165	6.91	288	6.72	0.19
	Pong HPS (6*66)	396	117	198	132	2.95	123	2.80	0.15
	Sub Total (F)	**2765**	**1205**	**1930**	**1058**	**29.51**	**1230**	**28.91**	**0.60**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.94	39	0.89	0.05
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	820	320	7.48	312	7.64	-0.16
	Malana Stg-II HPS (2*50)	100	0	96	15	0.57	24	0.53	0.03
	Shree Cement TPS (2*150)	300	0	95	84	2.08	87	1.86	0.22
	Budhil HPS(IPP) (2*35)	70	0	25	10	0.41	17	0.41	0.00
	Sub Total (G)	**1662**	**0**	**1036**	**429**	**11.47**	**478**	**11.33**	**0.14**
H. Total Regional Entities (A-G)		**25237**	**18396**	**18180**	**10348**	**272.06**	**11336**	**275.36**	**-3.30**

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	160	160	3.73	155
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	204	204	4.69	195
	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	1320	1320	29.87	1245
	Talwandi Saboo (3*660)	1980	1088	924	26.05	1085
	Thermal (Total)	**6560**	**2772**	**2608**	64.34	**2681**
	Total Hydro	1000	572	586	13.38	557
	Wind Power	0	0	0	0.00	0
	Biomass	288	12	12	0.29	12
	Solar	560	0	0	0.30	13
	Renewable(Total)	**848**	**12**	**12**	**0.59**	**25**
	Total Punjab	**8408**	**3356**	**3206**	**78.31**	**3263**
Haryana	Panipat TPS (2*210+2*250)	920	745	739	15.47	645
	DCRTPP (Yamuna nagar) (2*300)	600	554	459	11.37	474
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	976	772	16.68	695
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**4497**	**2275**	**1970**	**43.52**	**1813**
	Total Hydro	62	26	33	0.78	33
	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**	**2301**	**2003**	**44.30**	**1846**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	457	333	9.40	392
	suratgarh TPS (6*250)	1500	0	0	0.00	0
	Chabra TPS (4*250)	1000	915	735	20.90	871
	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	126	127	3.20	133
	RAPS A (NPC) (1*100+1*200)	300	167	166	4.20	175
	Barsingsar (NLC) (2*125)	250	226	228	5.40	225
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	761	529	17.50	729
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	562	510	12.50	521
	Kawai(Adani) (2*660)	1320	627	1186	19.90	829
	Thermal (Total)	**8876**	**3841**	**3814**	**93.00**	**3875**
	Total Hydro	550	119	146	3.50	146
	Wind power	4017	370	1317	19.30	804
	Biomass	99	14	14	0.30	13
	Solar	1295	1	0	0.20	8
	Renewable/Others (Total)	5411	385	1331	19.80	825
	Total Rajasthan	**14837**	**4345**	**5291**	**116.30**	**4846**
UP	Anpara TPS (3*210+2*500)	1630	415	1124	21.23	885
	Obra TPS (2*50+2*94+5*200)	1194	272	243	6.56	273
	Paricha TPS (2*110+2*220+2*250)	1160	806	811	19.18	799
	Panki TPS (2*105)	210	81	81	1.95	81
	Harduaganj TPS (1*60+1*105+2*250)	665	531	438	11.87	494
	Tanda TPS (NTPC) (4*110)	440	385	380	8.93	372
	Roza TPS (IPP) (4*300)	1200	1045	1116	25.85	1077
	Anpara-C (IPP) (2*600)	1200	1040	1080	24.45	1019
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	405	404	9.58	399
	Anpara-D(2*500)	1000	464	386	11.02	459
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	0	0	0.00	0
	Thermal (Total)	**12449**	**5444**	**6063**	**140.61**	**5859**
	Vishnuparyag HPS (IPP)(4*110)	440	216	221	9.58	399
	Alaknanada(4*82.5)	330	88	164	1.95	81
	Other Hydro	527	298	244	6.08	253
	Cogeneration	981	50	50	1.20	50
	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**	**6096**	**6742**	**159.42**	**6642**
Uttarakhand	Other Hydro	1250	657	383	11.28	470
	Total Gas	225	195	175	4.36	182
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.07	3
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.07	3
	Total Uttarakhand	1802	852	558	15.71	655
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	75	75	1.86	77
	Pragati Gas Turbine (2x104+ 1x122)	330	147	152	3.69	154
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	252	6.05	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	327	325	7.48	312
	Thermal (Total)	**2917**	**799**	**805**	**19.08**	**795**
	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**	**799**	**805**	**19.08**	**795**

HP	Baspa HPS (IPP) (3*100)	300	30	130	2.26	94
	Malana HPS (IPP) (2*43)	86	40	0	0.55	23
	Other Hydro	372	327	258	6.60	275
	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	136	123	3.10	129
	Renewable(Total)	**486**	**136**	**123**	**3.10**	**129**
	Total HP	**1244**	**533**	**511**	**12.50**	**521**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	438	290	8.00	333
	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**	**576**	**383**	**11**	**449**
Total State Control Area Generation		**50078**	**18858**	**19499**	**456.38**	**19016**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**7728**	**8962**	**218.68**	**9112**
Total Regional Availability(Gross)		**75315**	**44766**	**38809**	**947.12**	**39463**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**10246**	**2852**	**101.09**	**4212**
State Control Area Hydro	**7163**	**3280**	**2846**	**69.81**	**3093**
Total Regional Hydro	**19397**	**13526**	**5698**	**170.90**	**7305**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.14**	**6**
State Control Area Renewable	**7356**	**533**	**1466**	**23.55**	**981**
Total Regional Renewable	**7386**	**533**	**1466**	**23.69**	**987**

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)	-400	-200	50	400	0.33	4.50	-4.17
765 KV Gwalior-Agra (D/C)	1698	2605	2702	0	56.46	0.00	56.46
400 KV Zerda-Kankroli	141	151	199	0	3.07	0.00	3.07
400 KV Zerda-Bhinmal	141	122	183	19	2.75	0.00	2.75
220 KV Auraiya-Malanpur	-84	-55	0	103	0.00	1.41	-1.41
220 KV Badod-Kota/Morak	115	151	182	0	3.03	0.00	3.03
Mundra-Mohindergarh(HVDC Bipole)	1598	1197	2003	0.00	35.17	0.00	35.17
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1056	1058	1498	0	28.76	0.00	28.76
Sub Total WR	**4265**	**5029**			**129.57**	**5.92**	**123.65**
Pusauli Bypass/HVDC	100	100	150	50	2.50	0.00	2.50
400 KV MZP- GKP (D/C)	231	605	876	0	13.54	0.00	13.54
400 KV Patna-Balia(D/C) X 2	722	622	746	0	15.90	0.00	15.90
400 KV B'Sharif-Balia (D/C)	66	200	274	0	4.42	0.00	4.42
765 KV Gaya-Balia	203	318	318	0	6.33	0.00	6.33
765 KV Gaya-Varanasi (D/C)	548	671	840	0	16.93	0.00	16.93
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-28	-28	0	36	0.00	0.66	-0.66
132 KV Son Ngr-Rihand	-13	-26	0	32	0.00	0.44	-0.44
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	33	117	189	0	2.67	0.00	2.67
400 KV Barh -GKP (D/C)	486	440	486	0	9.66	0.00	9.66
400 kV B'Sharif - Varanasi (D/C)	115	181	262	0	5.28	0.00	5.28
Sub Total ER	**2463**	**3200**			**77.23**	**1.10**	**76.13**
+/- 800 KV BiswanathCharialli-Agra	1000	733	1000	0.00	18.90	0.00	18.90
Sub Total NER	**1000**	**733**			**18.90**	**0.00**	**18.90**
Total IR Exch	**7728**	**8962**			**225.70**	**7.02**	**218.68**

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
48.18	3.56	51.74	15.21	3.95	13.86	21.49	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
80.81	123.91	204.72	95.03	123.65	218.68	14.22	-0.26	13.96

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	22	0	0	27	0	0	-0.15

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	7.21	56.10	78.07	13.72	1.52	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	13.02	49.81	17.44	49.99	0.035	0.058	50.15	0.00	21.93

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	411	17:06	404	2:54	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	18:03	403	0:16	0.0	0.0	0.6	0.0	0.6
Bareilly(PG)400kV	400	404	0:00	404	0:00	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	3:59	402	11:15	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	3:53	398	18:47	0.0	0.0	0.8	0.0	0.8
Ballabhgarh	400	430	4:00	399	18:47	0.0	0.0	26.8	0.0	26.8
Bawana	400	424	3:59	398	18:47	0.0	0.0	12.8	0.0	12.8
Bassi	400	426	3:59	391	18:47	0.0	0.0	5.7	0.0	5.7
Hissar	400	421	4:00	394	18:47	0.0	0.0	0.4	0.0	0.4
Moga	400	422	2:36	398	18:47	0.0	0.0	1.4	0.0	1.4
Abdullapur	400	429	1:51	403	18:45	0.0	0.0	36.4	0.0	36.4
Nalagarh	400	437	4:03	405	18:56	0.0	0.0	44.6	20.3	44.6
Kishenpur	400	427	3:54	396	18:25	0.0	0.0	21.5	0.0	21.5
Wagoora	400	416	2:53	368	18:26	5.2	38.6	0.0	0.0	5.2
Amritsar	400	422	23:29	402	10:33	0.0	0.0	2.7	0.0	2.7
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	423	0:00	401	11:39	0.0	0.0	35.9	0.0	35.9
Rishikesh	400	414	5:03	391	10:18	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	17:32	738	18:46	0.0	0.7	0.0	0.0	0.0
Balia	765	772	2:42	764	0:17	0.0	0.0	0.0	0.0	0.0
Moga	765	802	1:59	758	11:15	0.0	0.0	0.8	0.0	0.8
Agra	765	791	3:59	750	18:46	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	805	3:41	761	18:46	0.0	0.0	12.3	0.0	12.3
Unnao	765	769	17:31	738	10:19	0.0	5.9	0.0	0.0	0.0
Lucknow	765	791	17:31	757	10:21	0.0	0.0	0.0	0.0	0.0
Meerut	765	781	5:20	773	0:00	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	795	17:31	758	18:46	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	784	17:30	749	11:14	0.0	0.0	0.0	0.0	0.0
Anta	765	794	3:55	758	18:44	0.0	0.0	0.0	0.0	0.0
Phagi	765	805	4:02	758	18:46	0.0	0.0	0.5	0.0	0.5

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	501.29	1153.36	510.43	1575.10	318.34	591.62
Pong	426.72	384.05	415.84	705.67	419.97	889.22	97.07	178.91
Tehri	829.79	740.04	824.50	1097.37	820.25	1007.54	84.71	144.00
Koteshwar	612.50	598.50	608.90	4.00	610.81	4.95	144.00	139.64
Chamera-I	760.00	748.75	757.93	0.00	0.00	0.00	88.45	85.81
Rihand	268.22	252.98	871.10	650.20	851.80	284.70	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	516.07	5.88	513.34	3.49	87.73	214.06

*** 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	89	0	0	-62	2	0	1.54	0.01	1.55
Delhi	7	0	0	14	22	0	1.39	1.43	2.82
Haryana	566	350	0	596	345	0	14.11	7.94	22.04
HP	-54	165	0	-133	-314	0	-1.27	-1.41	-2.68
J&K	-38	50	0	111	50	0	1.47	3.86	5.33
CHD	0	0	0	0	0	-20	0.00	0.28	0.28
Rajasthan	-5	632	0	-7	681	0	-0.13	16.10	15.98
UP	187	880	0	227	-73	0	2.71	4.46	7.17
Uttarakhand	26	304	0	26	120	0	0.47	7.53	7.99
Total	**779**	**2381**	**0**	**771**	**833**	**-20**	**20.28**	**40.19**	**60.47**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	89	-62	2	0	0	0
Delhi	114	7	227	-101	0	0
Haryana	742	391	380	7	0	0
HP	-14	-133	213	-513	0	0
J&K	111	-38	347	0	0	0
CHD	0	0	0	0	49	-30
Rajasthan	-5	-7	686	605	0	0
UP	239	-8	948	-100	0	0
Uttarakhand	26	13	606	120	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	**6.60%**

(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	18
Haryana	3	27
Rajasthan	1	13
Delhi	3	23
UP	0	10
Uttarakhand	6	27
HP	4	56
J & K	2	13
Chandigarh	3	36

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 13.10.2016 :
Normal

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :
1. 315 MVA ICT-2 with new 500 MVA ICT-2 at Mandola(PG) first time charge on NO load at 18:35 hrs. dt. 13.10.2016 as a capacity enhancement

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 : 13.10.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER