

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिश की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 07.09.2016

Date of Reporting : 08.09.2016



### I. Regional Availability/Demand:

Evening Peak (20:00 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
48948	1851	50798	50.14	47121	297	47417	50.02	1130.8	13.90

\*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:

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	87.74	17.82		105.57	126.62	125.15	-1.47	230.71	0.00
Haryana	32.80	0.77		33.57	141.96	140.81	-1.15	174.39	1.72
Rajasthan	82.14	3.92	34.36	120.42	68.94	68.06	-0.88	188.48	2.66
Delhi	19.89			19.89	80.73	81.00	0.27	100.89	0.14
UP	162.01	24.30		186.31	142.01	139.83	-2.19	326.14	0.00
Uttarakhand		20.08		23.96	14.03	15.83	1.81	39.79	0.05
HP		23.73		23.73	1.12	3.18	2.06	26.91	0.00
J & K		21.97	0.00	21.97	17.74	15.36	-2.38	37.33	9.33
Chandigarh				0.00	6.09	6.13	0.04	6.13	0.00
<b>Total</b>	<b>384.58</b>	<b>112.59</b>	<b>34.36</b>	<b>535.41</b>	<b>599.23</b>	<b>595.35</b>	<b>-3.88</b>	<b>1130.75</b>	<b>13.90</b>

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

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

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)		Shortage (MW)
	Demand Met	Shortage	UI	STO/ PX transaction	Demand Met	Shortage	UI	STO/ PX transaction			
Punjab	9835	0	-169	1721	9004	0	-103	1862	9891	21:00	0
Haryana	8522	53	-56	2443	7473	0	120	2305	8560	21:00	62
Rajasthan	7566	378	-39	-113	8072	0	-133	351	8385	8:00	0
Delhi	4249	247	-96	526	3924	0	107	393	4867	17:00	0
UP	13651	705	-540	416	14891	0	150	1405	15180	23:00	105
Uttarakhand	1836	0	137	-125	1444	0	-78	-39	1836	20:00	0
HP	1137	0	52	-1637	911	0	74	-1355	1258	8:00	0
J&K	1872	468	-99	-561	1186	297	-106	-762	1872	20:00	468
Chandigarh	281	0	-5	-20	214	0	-6	0	311	15:00	0
<b>Total</b>	<b>48948</b>	<b>1851</b>	<b>-816</b>	<b>2651</b>	<b>47121</b>	<b>297</b>	<b>25</b>	<b>4159</b>	<b>50471</b>	<b>23:00</b>	<b>1248</b>

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

Diversity is: 1.03

### III. Regional Entities :

Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1485	1765	1585	35.98	1499	35.43	0.55
Rihand I STPS (2*500)	1000	923	987	999	22.29	929	21.86	0.43
Rihand II STPS (2*500)	1000	963	1036	985	22.82	951	22.12	0.70
Rihand III STPS (2*500)	1000	960	1018	973	22.61	942	22.24	0.37
Dadri I STPS (4*210)	840	815	418	329	8.82	367	9.37	-0.55
Dadri II STPS (2*490)	980	853	497	692	16.86	702	17.61	-0.75
Unchahar I TPS (2*210)	420	357	386	278	7.61	317	7.74	-0.14
Unchahar II TPS (2*210)	420	400	397	290	8.26	344	8.35	-0.09
Unchahar III TPS (1*210)	210	200	215	149	4.09	170	4.16	-0.07
ISTPP (Jhajjar) (3*500)	1500	1425	0	0	0.00	0	0.00	0.00
Dadri GPS (4*130.19+2*154.51)	830	782	330	351	7.90	329	8.53	-0.63
Anta GPS (3*88.71+1*153.2)	419	399	198	219	5.36	223	5.27	0.09
Auraiya GPS (4*111.19+2*109.30)	663	625	151	139	3.20	133	3.40	-0.21
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.03	1	0.04	-0.01
Singrauli Solar(15)	15	2	0	0	0.01	1	0.04	-0.03
KHEP(4*200)	800	855	857	855	11.66	486	11.00	0.66
<b>Sub Total (A)</b>	<b>12112</b>	<b>11045</b>	<b>8255</b>	<b>7844</b>	<b>178</b>	<b>7396</b>	<b>177</b>	<b>0.32</b>
<b>B. NPC</b>								
NAPS (2*220)	440	190	208	212	4.54	189	4.56	-0.02
RAPS- B (2*220)	440	372	416	413	8.93	372	8.93	0.00
RAPS- C (2*220)	440	405	405	405	9.72	405	9.72	0.00
<b>Sub Total (B)</b>	<b>1320</b>	<b>967</b>	<b>1029</b>	<b>1030</b>	<b>23.19</b>	<b>966</b>	<b>23.21</b>	<b>-0.02</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	540	552	0	7.83	326	7.51	0.32
Chamera II HPS (3*100)	300	294	310	239	7.01	292	7.02	-0.01
Chamera III HPS (3*77)	231	179	228	160	4.29	179	4.15	0.14
Bairasuli HPS(3*60)	180	179	184	122	2.27	95	2.20	0.07
Salal-HPS (6*115)	690	612	677	675	15.76	657	14.70	1.06
Tanakpur-HPS (3*31.4)	94	90	95	97	2.30	96	2.15	0.15
Uri-I HPS (4*120)	480	439	461	460	11.10	463	10.53	0.58
Uri-II HPS (4*60)	240	237	241	241	5.75	240	5.69	0.06
Dhauliganga-HPS (4*70)	280	210	218	207	5.14	214	5.04	0.10
Dulhasti-HPS (3*130)	390	383	397	391	9.25	385	9.18	0.07
Sewa-II HPS (3*40)	120	119	126	0	1.51	63	1.40	0.11
Parbati 3 (4*130)	520	520	529	0	3.39	141	3.29	0.10
<b>Sub Total (C)</b>	<b>4065</b>	<b>3801</b>	<b>4019</b>	<b>2591</b>	<b>76</b>	<b>3150</b>	<b>73</b>	<b>2.74</b>
<b>D. SJVNL</b>								
NJPC (6*250)	1500	1605	1617	1616	35.75	1490	35.74	0.01
Rampur HEP (6*68.67)	412	442	446	437	10.17	424	9.91	0.26
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2063</b>	<b>2053</b>	<b>45.92</b>	<b>1913</b>	<b>45.65</b>	<b>0.27</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	1018	810	270	9.26	386	9.06	0.20
Koteshwar HPS (4*100)	400	133	400	93	3.27	136	3.18	0.09
<b>Sub Total (E)</b>	<b>1400</b>	<b>1150</b>	<b>1210</b>	<b>363</b>	<b>12.53</b>	<b>522</b>	<b>12.24</b>	<b>0.29</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	814	1335	668	19.39	808	19.55	-0.16
Dehar HPS (6*165)	990	575	495	570	13.70	571	13.79	-0.09
Pong HPS (6*66)	396	319	330	264	7.71	321	7.65	0.05
<b>Sub Total (F)</b>	<b>2765</b>	<b>1708</b>	<b>2160</b>	<b>1502</b>	<b>40.80</b>	<b>1700</b>	<b>40.99</b>	<b>-0.19</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	182	120	3.26	136	3.08	0.19
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	645	19.73	822	19.48	0.25
Malana Stg-II HPS (2*50)	100	0	106	80	2.16	90	2.04	0.12
Shree Cement TPS (2*150)	300	0	146	282	4.70	196	5.89	-1.19
Budhil HPS(IPP) (2*35)	70	0	69	64	1.31	54	1.54	-0.24
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1603</b>	<b>1190</b>	<b>31.16</b>	<b>1298</b>	<b>32.03</b>	<b>-0.87</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20718</b>	<b>20338</b>	<b>16573</b>	<b>406.70</b>	<b>16946</b>	<b>404.16</b>	<b>2.54</b>

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	505	285	8.82	368
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	105	90	2.07	86
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	226	233	5.25	219
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1270	1320	31.45	1311
	Talwandi Saboo (3*660)	1980	1841	1534	40.18	1674
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3947</b>	<b>3462</b>	<b>87.74</b>	<b>3656</b>
	Total Hydro	1000	764	771	17.82	743
	<b>Total Punjab</b>	<b>7560</b>	<b>4711</b>	<b>4233</b>	<b>105.57</b>	<b>4399</b>
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	237	231	5.79	241
Faridabad GPS (NTPC)(2*137.75+1*156)		432	319	167	7.07	294
RGTTP (khedar) (IPP) (2*600)		1200	0	0	0.00	0
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	795	743	19.95	831
<b>Thermal (Total)</b>		<b>4497</b>	<b>1351</b>	<b>1141</b>	<b>32.80</b>	<b>1367</b>
Total Hydro		62	25	40	0.77	32
<b>Total Haryana</b>		<b>4559</b>	<b>1376</b>	<b>1181</b>	<b>33.57</b>	<b>1399</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	178	157	4.32
	suratgarh TPS (6*250)	1500	0	0	0.00	0
	Chabra TPS (4*250)	1000	832	563	17.69	737
	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	108	110	2.76	115
	RAPS A (NPC) (1*100+1*200)	300	163	165	4.08	170
	Barsingsar (NLC) (2*125)	250	226	226	5.31	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	737	814	18.87	786
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	1233	1205	29.11	1213
	<b>Thermal (Total)</b>	<b>8876</b>	<b>3477</b>	<b>3240</b>	<b>82</b>	<b>3422</b>
	Total Hydro	550	45	194	3.92	163
	Wind power	3214	974	1801	33.51	1396
	Biomass	99	15	15	0.35	15
	Solar	730	2	0	0.50	21
	Renewable/Others (Total)	4043	991	1816	34.36	1432
	<b>Total Rajasthan</b>	<b>13469</b>	<b>4513</b>	<b>5250</b>	<b>120.42</b>	<b>5017</b>
	UP	Anpara TPS (3*210+2*500)	1630	1146	1048	24.10
Obra TPS (2*50+2*94+5*200)		1194	371	338	8.50	354
Paricha TPS (2*110+2*220+2*250)		1160	899	896	19.60	817
Panki TPS (2*105)		210	140	68	2.30	96
Harduaganj TPS (1*60+1*105+2*250)		665	438	413	9.80	408
Tanda TPS (NTPC) (4*110)		440	370	350	8.71	363
Roza TPS (IPP) (4*300)		1200	1112	1098	26.50	1104
Anpara-C (IPP) (2*600)		1200	954	990	22.80	950
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	403	8.60	358
Anpara-D(2*500)		1000	233	225	5.90	246
Lalitpur TPS(3*660)		1980	433	442	10.00	417
Bara(2*660)		1320	578	581	14.00	583
<b>Thermal (Total)</b>		<b>12449</b>	<b>7079</b>	<b>6852</b>	<b>161</b>	<b>6701</b>
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438
Alaknanda(4*82.5)		330	337	337	8.10	338
Other Hydro		527	131	279	5.70	238
Cogeneration	981	50	50	1.20	50	
<b>Total UP</b>	<b>14727</b>	<b>8032</b>	<b>7953</b>	<b>186</b>	<b>7763</b>	
Uttarakhand	Total Hydro	1398	816	856	20.08	837
	Total Gas	225	161	163	3.88	162
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>977</b>	<b>1019</b>	<b>24</b>	<b>998</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.20	-8
	Delhi Gas Turbine (6x30 + 3x34)	282	74	75	1.82	76
	Pragati Gas Turbine (2x104+ 1x122)	330	142	140	3.83	160
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	300	250	6.44	268
	Badarpur TPS (NTPC) (3*95+2*210)	705	360	330	8.00	333
	<b>Thermal (Total)</b>	<b>2917</b>	<b>876</b>	<b>795</b>	<b>19.89</b>	<b>829</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>876</b>	<b>795</b>	<b>19.89</b>	<b>829</b>
HP	Baspa HPS (IPP) (3*100)	300	333	303	7.54	314
	Malana HPS (IPP) (2*43)	86	106	106	2.63	3
	Other Hydro	878	579	567	13.56	565
	<b>Total HP</b>	<b>1264</b>	<b>1018</b>	<b>976</b>	<b>23.73</b>	<b>882</b>
J & K	Baqlihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733
	Other Hydro/IPP	560	184	185	4.38	182
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1500</b>	<b>917</b>	<b>918</b>	<b>21.97</b>	<b>915</b>
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>22420</b>	<b>22325</b>	<b>535.41</b>	<b>22202</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>8546.42</b>	<b>9924.2</b>	<b>208.40</b>	<b>8683</b>
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>51305</b>	<b>48822</b>	<b>1150.51</b>	<b>47831</b>

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11697	8208	211.66	8819
State Control Area Hydro		7106	4649	4969	112.59	4746
<b>Total Regional Hydro</b>		<b>19340</b>	<b>16346</b>	<b>13177</b>	<b>324.25</b>	<b>13565</b>

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhyachal(HVDC B/B)	300	150	300	0	6.45	0.00	6.45
765 KV Gwalior-Agra (D/C)	2446	2961	2961	0	57.26	0.00	57.26
400 KV Zerda-Kankroli	7	-19	7	223	0.00	2.26	-2.26
400 KV Zerda-Bhinmal	-12	-32	48	228	0.00	2.18	-2.18
220 KV Auraiya-Malanpur	-88	-13	0	128	0.00	1.23	-1.23
220 KV Badod-Kota/Morak	111	156	162	0	2.65	0.00	2.65
Mundra-Mohinderghar(HVDC Bipole)	2502	2502	2506	0.00	60.46	0.00	60.46
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	987	1092	1124	0	23.73	0.00	23.73
<b>Sub Total WR</b>	<b>6253</b>	<b>6797</b>			<b>150.55</b>	<b>5.67</b>	<b>144.87</b>
Pusauli Bypass/HVDC	250	250	250	0	6.03	0.00	6.03
400 KV MZP- GKP (D/C)	238	542	620	0	10.60	0.00	10.60
400 KV Patna-Balia(D/C) X 2	88	224	315	0	4.22	0.00	4.22
400 KV B'Sharif-Balia (D/C)	82	228	366	0	4.74	0.00	4.74
765 KV Gaya-Balia	278	419	472	0	3.97	0.00	3.97
765 KV Gaya-Varanasi (D/C)	429	519	615	0	12.08	0.00	12.08
220 KV Pusauli-Sahupuri	143	190	195	0	3.99	0.00	3.99
132 KV K'nasa-Sahupuri	-20	0	0	20	0.00	0.43	-0.43
132 KV Son Ngr-Rihand	0	-10	0	26	0.00	0.36	-0.36
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-187	-207	0	250	0.00	3.36	-3.36
400 KV Barh -GKP (D/C)	232	308	308	0	5.54	0.00	5.54
400 kV B'Sharif - Varanasi (D/C)	60	-36	85	60	0.61	0.00	0.61
<b>Sub Total ER</b>	<b>1593</b>	<b>2427</b>			<b>51.79</b>	<b>4.15</b>	<b>47.64</b>
+/- 800 KV BiswanathCharialli-Agra	700	700	700	0.00	15.89	0.00	15.89
<b>Sub Total NER</b>	<b>700</b>	<b>700</b>			<b>15.89</b>	<b>0.00</b>	<b>15.89</b>
<b>Total IR Exch</b>	<b>8546</b>	<b>9924</b>			<b>218.23</b>	<b>9.82</b>	<b>208.40</b>

V(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
42.12	3.77	45.89	35.51	12.16	1.99	17.83	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
83.38	132.64	216.02	63.53	144.87	208.40	-19.85	12.23	-7.62

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-28	0	0	27	0	0	-0.41

VI. 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	0.03	2.17	24.93	78.98	69.75	4.61	0.76	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.16	13.02	49.69	18.57	49.95	0.075	0.068	50.13	0.00	30.25

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	412	18:04	404	14:31	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	7:03	395	1:14	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	410	0:00	410	0:00	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	18:01	397	19:26	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	6:01	392	14:51	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	424	6:03	398	14:26	0.0	0.0	7.8	0.0	7.8
Bawana	400	422	6:03	395	14:46	0.0	0.0	1.9	0.0	1.9
Bassi	400	423	18:01	397	19:24	0.0	0.0	2.9	0.0	2.9
Hissar	400	417	6:03	388	19:12	0.0	4.0	0.0	0.0	0.0
Moga	400	414	5:17	389	14:37	0.0	3.0	0.0	0.0	0.0
Abdullapur	400	420	6:02	394	19:13	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	422	5:19	394	14:44	0.0	0.0	0.6	0.0	0.6
Kishenpur	400	413	5:17	397	14:37	0.0	0.0	0.0	0.0	0.0
Wagoora	400	407	3:03	383	19:24	0.0	24.7	0.0	0.0	0.0
Amritsar	400	419	5:15	393	14:54	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	411	6:39	392	11:27	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	412	18:03	386	14:22	0.0	19.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	792	18:01	749	10:53	0.0	0.0	0.0	0.0	0.0
Balia	765	790	18:03	752	0:16	0.0	0.0	0.0	0.0	0.0
Moga	765	794	5:16	749	14:53	0.0	0.0	0.0	0.0	0.0
Agra	765	802	18:02	756	10:13	0.0	0.0	0.1	0.0	0.1
Bhiwani	765	800	5:18	754	14:44	0.0	0.0	0.0	0.0	0.0
Unnao	765	769	18:01	731	0:21	0.0	34.7	0.0	0.0	0.0
Lucknow	765	790	18:01	744	0:22	0.0	0.0	0.0	0.0	0.0
Meerut	765	805	18:01	756	13:40	0.0	0.0	2.3	0.0	2.3
Jhatikara	765	801	6:03	754	14:53	0.0	0.0	0.2	0.0	0.2
Bareilly 765 kV	765	782	18:29	737	0:08	0.0	5.6	0.0	0.0	0.0
Anta	765	796	0:00	796	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	18:01	761	19:44	0.0	0.0	0.0	0.0	0.0

**IX. Reservoir Parameters:**

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m <sup>3</sup> /s)	Usage (m <sup>3</sup> /s)
Bhakra	513.59	445.62	502.72	1205.87	511.53	1620.46	672.07	575.88
Pong	426.72	384.05	417.94	794.52	422.40	1005.78	347.11	456.81
Tehri	829.79	740.04	822.00	1044.51	819.70	1002.00	324.45	203.00
Koteswar	612.50	598.50	610.16	4.69	611.10	5.10	203.00	216.16
Chamera-I	760.00	748.75	752.48	0.00	0.00	0.00	233.80	212.69
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	521.63	6.67	516.27	13.46	263.46	265.25

\* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	902	960	0	765	956	0	22.73	21.99	44.72
Delhi	588	-195	0	633	-107	0	15.34	-1.43	13.90
Haryana	1903	389	13	2059	371	14	44.88	7.11	51.99
HP	-857	-498	0	-857	-780	0	-19.42	-12.26	-31.68
J&K	-546	-216	0	-546	-15	0	-13.70	-1.51	-15.21
CHD	0	0	0	0	-20	0	0.36	0.03	0.38
Rajasthan	-230	577	4	-128	12	4	-3.69	11.65	7.96
UP	914	491	0	416	0	0	13.38	3.79	17.17
Uttarakhand	-166	127	0	-166	42	0	-3.99	2.74	-1.24
<b>Total</b>	<b>2507</b>	<b>1635</b>	<b>18</b>	<b>2175</b>	<b>458</b>	<b>18</b>	<b>55.89</b>	<b>32.10</b>	<b>87.98</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1086	702	1091	496	0	0
Delhi	697	464	307	-455	0	0
Haryana	2168	1672	417	-225	14	13
HP	-553	-1060	-266	-847	0	0
J&K	-546	-617	0	-216	0	0
CHD	44	0	20	-20	0	0
Rajasthan	-128	-230	583	-269	4	4
UP	1090	349	590	0	0	0
Uttarakhand	-166	-166	270	-20	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	2.43%
ER	0.00%
Simultaneous	0.00%

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

WR	19.10%
ER	0.00%
Simultaneous	5.90%

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

Rihand - Dadri	0.00%
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**XII. System Constraints:**

**XIII. Grid Disturbance / Any Other Significant Event:**

1. 220kV Bhagpat(PG)-Muradnagar and 220kV Bhagpat(PG)-Shamli line charged for anti theft purpose from Bhagpat(PG) end at 2234 Hrs and 2247Hrs of 07.09.2016 respectively.

**XIV. Weather Conditions For 07.09.2016 :**

**XV. Synchronisation of new generating units :**

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

**XVII. Tripping of lines in pooling stations :**

**XVIII. 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.