

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 14.07.2016  
Date of Reporting : 15.07.2016



### 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
45651	1784	47435	50.05	47842	216	48058	50.03	1122.7	1.42

\*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	91.51	12.00		103.51	134.81	133.21	-1.60	236.71	0.00
Haryana	43.30	0.67		43.97	134.24	132.03	-2.21	176.00	0.00
Rajasthan	94.17	0.41	22.38	116.97	57.31	57.90	0.59	174.87	0.00
Delhi	19.26			19.26	88.34	88.31	-0.03	107.58	0.07
UP	155.48	22.00		177.47	145.68	146.30	0.62	323.77	0.00
Uttarakhand		18.08		18.08	20.47	20.99	0.53	39.07	0.66
HP		19.26		19.26	4.61	6.32	1.71	25.58	0.69
J & K		22.53	0.00	22.53	14.07	10.40	-3.67	32.93	0.00
Chandigarh				0.00	6.62	6.15	-0.48	6.15	0.00
<b>Total</b>	<b>403.72</b>	<b>94.96</b>	<b>22.38</b>	<b>521.05</b>	<b>606.14</b>	<b>601.61</b>	<b>-4.53</b>	<b>1122.66</b>	<b>1.42</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	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	9517	0	-110	1903	9365	0	-118	2203	10190	15:00	0
Haryana	7371	0	-430	2017	8184	0	92	2217	8306	21:00	0
Rajasthan	7419	0	56	134	7348	0	127	41	8012	24:00	0
Delhi	4260	0	-228	444	4488	0	114	117	5414	16:00	0
UP	12495	1330	42	875	14771	0	-189	1182	15154	1:00	0
Uttarakhand	1844	75	84	137	1613	0	10	-63	1844	20:00	75
HP	1037	15	128	-1493	959	0	65	-1577	1226	10:00	0
J&K	1454	364	-20	-734	864	216	-148	-1046	1480	21:00	370
Chandigarh	254	0	-27	0	251	0	-30	0	291	15:00	0
<b>Total</b>	<b>45651</b>	<b>1784</b>	<b>-505</b>	<b>3283</b>	<b>47842</b>	<b>216</b>	<b>-77</b>	<b>3075</b>	<b>49430</b>	<b>1:00</b>	<b>231</b>

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

Diversity is: 1.05

### III. Regional Entities :

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	
								(MW)	Time(Hrs)
<b>A. NTPC</b>									
Singrauli STPS (5*200+2*500)	2000	1880	2056	2035	45.04	1877	44.34		0.70
Rihand I STPS (2*500)	1000	932	976	1014	21.42	892	21.44		-0.02
Rihand II STPS (2*500)	1000	903	1001	948	20.76	865	20.14		0.62
Rihand III STPS (2*500)	1000	945	961	960	21.67	903	21.64		0.03
Dadri I STPS (4*210)	840	805	419	335	7.57	315	7.81		-0.24
Dadri II STPS (2*490)	980	960	1029	756	17.23	718	17.99		-0.76
Unchahar I TPS (2*210)	420	350	349	331	6.64	277	7.05		-0.41
Unchahar II TPS (2*210)	420	400	373	292	6.87	286	7.39		-0.52
Unchahar III TPS (1*210)	210	200	223	153	3.45	144	3.71		-0.26
ISTPP (Jhajjar) (3*500)	1500	1425	1226	973	22.47	936	19.30		3.18
Dadri GPS (4*130.19+2*154.51)	830	781	384	242	7.22	301	7.56		-0.34
Anta GPS (3*88.71+1*153.2)	419	398	0	0	0.00	0	0.00		0.00
Auraiya GPS (4*111.19+2*109.30)	663	631	240	229	5.45	227	5.90		-0.45
Dadri Solar(5)	5	1	0	0	0.02	1	0.02		-0.01
Unchahar Solar(10)	10	2	0	0	0.04	2	0.05		-0.01
Singrauli Solar(15)	15	1	0	0	0.03	1	0.03		0.00
KHEP(4*200)	800	847	852	852	20.21	842	20.32		-0.11
<b>Sub Total (A)</b>	<b>12112</b>	<b>11462</b>	<b>10089</b>	<b>9120</b>	<b>206</b>	<b>8586</b>	<b>205</b>		<b>1.39</b>
<b>B. NPC</b>									
NAPS (2*220)	440	378	378	378	9.07	378	9.07		0.00
RAPS- B (2*220)	440	190	190	190	4.56	190	4.56		0.00
RAPS- C (2*220)	440	231	219	223	4.32	180	5.54		-1.22
<b>Sub Total (B)</b>	<b>1320</b>	<b>799</b>	<b>787</b>	<b>791</b>	<b>17.95</b>	<b>748</b>	<b>19.17</b>		<b>-1.22</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	544	544	396	11.90	496	11.83		0.07
Chamera II HPS (3*100)	300	301	307	302	7.27	303	7.22		0.05
Chamera III HPS (3*77)	231	231	238	233	5.57	232	5.55		0.02
Bairasuli HPS(3*60)	180	180	182	185	3.75	156	3.68		0.07
Salal-HPS (6*115)	690	662	666	672	16.08	670	15.88		0.20
Tanakpur-HPS (3*31.4)	94	86	95	94	2.21	92	2.05		0.15
Uri-I HPS (4*120)	480	377	415	418	9.36	390	9.10		0.26
Uri-II HPS (4*60)	240	224	235	231	5.45	227	5.38		0.07
Dhauliganga-HPS (4*70)	280	280	274	280	6.67	278	6.72		-0.05
Dulhasti-HPS (3*130)	390	378	391	387	9.16	382	9.06		0.10
Sewa-II HPS (3*40)	120	119	128	82	1.46	61	1.45		0.01
Parbati 3 (4*130)	520	382	396	132	4.36	182	4.29		0.06
<b>Sub Total (C)</b>	<b>4065</b>	<b>3761</b>	<b>3869</b>	<b>3412</b>	<b>83</b>	<b>3468</b>	<b>82</b>		<b>1.01</b>
<b>D. SJVNL</b>									
NJPC (6*250)	1500	1519	1626	1623	36.31	1513	36.48		-0.18
Rampur HEP (6*68.67)	412	424	450	449	10.15	423	10.06		0.09
<b>Sub Total (D)</b>	<b>1912</b>	<b>1944</b>	<b>2076</b>	<b>2072</b>	<b>46.46</b>	<b>1936</b>	<b>46.54</b>		<b>-0.08</b>
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	708	716	540	13.65	569	13.50		0.15
Koteshwar HPS (4*100)	400	242	392	180	5.85	244	5.80		0.05
<b>Sub Total (E)</b>	<b>1400</b>	<b>950</b>	<b>1108</b>	<b>720</b>	<b>19.50</b>	<b>812</b>	<b>19.30</b>		<b>0.20</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	1098	1313	904	26.43	1101	26.36		0.06
Dehar HPS (6*165)	990	611	825	600	14.77	615	14.66		0.11
Pong HPS (6*66)	396	113	212	53	2.71	113	2.70		0.00
<b>Sub Total (F)</b>	<b>2765</b>	<b>1822</b>	<b>2350</b>	<b>1557</b>	<b>43.90</b>	<b>1829</b>	<b>43.72</b>		<b>0.18</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	230	177	4.47	186	4.32		0.15
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	24.02	1001	24.79		-0.77
Malana Stg-II HPS (2*50)	100	0	15	112	0.76	32	1.80		-1.04
Shree Cement TPS (2*150)	300	0	280	244	6.01	250	6.05		-0.04
Budhil HPS(IPP) (2*35)	70	0	70	70	1.67	70	1.65		0.01
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1694</b>	<b>1704</b>	<b>36.93</b>	<b>1539</b>	<b>38.61</b>		<b>-1.68</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20737</b>	<b>21973</b>	<b>19376</b>	<b>454.03</b>	<b>18918</b>	<b>454.24</b>		<b>-0.21</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	850	885	20.58	857
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	270	270	6.11	255
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	407	431	9.31	388
	Goindwal(GVK) (2*270)	540	0	0	-0.04	-2
	Rajpura (2*700)	1400	1320	1320	31.24	1302
	Talwandi Saboo (3*660)	1980	1150	1075	24.31	1013
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3997</b>	<b>3981</b>	<b>91.51</b>	<b>3813</b>
	Total Hydro	1000	508	495	12.00	500
	<b>Total Punjab</b>	<b>7560</b>	<b>4505</b>	<b>4476</b>	<b>103.51</b>	<b>4313</b>
	Haryana	Panipat TPS (2*210+2*250)	920	440	593	11.31
DCRTPP (Yamuna nagar) (2*300)		600	520	467	11.30	471
Faridabad GPS (NTPC)(2*137.75+1*156)		432	369	327	7.83	326
RGTPP (khedar) (IPP) (2*600)		1200	434	754	12.87	536
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0
<b>Thermal (Total)</b>		<b>4497</b>	<b>1763</b>	<b>2141</b>	<b>43.30</b>	<b>1804</b>
Total Hydro		62	0	41	0.67	28
<b>Total Haryana</b>		<b>4559</b>	<b>1763</b>	<b>2182</b>	<b>43.97</b>	<b>1832</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	763	712	18.07
	suratgarh TPS (6*250)	1500	197	366	7.52	313
	Chabra TPS (4*250)	1000	561	555	14.77	615
	Dholpur GPS (3*110)	330	0	3	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	168	176	4.14	172
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	101	107	2.45	102
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	606	573	13.26	552
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	409	402	9.98	416
	Kawai(Adani) (2*660)	1320	1014	1009	24.00	1000
	<b>Thermal (Total)</b>	<b>8876</b>	<b>3819</b>	<b>3903</b>	<b>94</b>	<b>3924</b>
	Total Hydro	550	0	98	0.41	17
	Wind power	3214	826	929	22.23	926
	Biomass	99	6	6	0.15	6
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	832	935	22.38	933
	<b>Total Rajasthan</b>	<b>13469</b>	<b>4651</b>	<b>4936</b>	<b>116.97</b>	<b>4874</b>
	UP	Anpara TPS (3*210+2*500)	1630	1332	1323	31.74
Obra TPS (2*50+2*94+5*200)		1194	382	370	9.16	382
Paricha TPS (2*110+2*220+2*250)		1160	533	702	14.42	601
Panki TPS (2*105)		210	122	144	3.10	129
Harduaganj TPS (1*60+1*105+2*250)		665	402	539	11.66	486
Tanda TPS (NTPC) (4*110)		440	276	380	8.06	336
Roza TPS (IPP) (4*300)		1200	756	1104	20.36	848
Anpara-C (IPP) (2*600)		1200	720	1060	22.68	945
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	278	405	7.23	301
Anpara-D(2*500)		1000	211	203	5.01	209
Lalitpur TPS(3*660)		1980	354	487	9.36	390
Bara(2*660)		1320	410	536	11.51	480
<b>Thermal (Total)</b>		<b>12449</b>	<b>5776</b>	<b>7253</b>	<b>154</b>	<b>6428</b>
Vishnuparyag HPS (IPP)(4*110)		440	0	435	6.90	288
Alaknanda(4*82.5)		330	341	341	8.19	341
Other Hydro		527	48	65	6.90	288
Cogeneration		981	50	50	1.20	50
<b>Total UP</b>		<b>14727</b>	<b>6215</b>	<b>8144</b>	<b>177</b>	<b>7395</b>
Uttarakhand	Total Hydro	1398	816	796	18.08	753
	Total Gas	225	0	0	0.00	0
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>816</b>	<b>796</b>	<b>18</b>	<b>753</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	146	75	2.63	110
	Pragati Gas Turbine (2x104+ 1x122)	330	150	147	3.57	149
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	253	255	6.04	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	311	326	7.02	293
	<b>Thermal (Total)</b>	<b>2917</b>	<b>860</b>	<b>803</b>	<b>19.26</b>	<b>803</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>860</b>	<b>803</b>	<b>19.26</b>	<b>803</b>
HP	Baspa HPS (IPP) (3*100)	300	0	0	3.92	163
	Malana HPS (IPP) (2*43)	86	107	104	2.51	104
	Other Hydro	878	532	545	12.84	535
	<b>Total HP</b>	<b>1264</b>	<b>639</b>	<b>649</b>	<b>19.26</b>	<b>803</b>
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	736	736	17.65	735
	Other Hydro/IPP	560	207	210	4.89	204
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1500</b>	<b>943</b>	<b>946</b>	<b>22.53</b>	<b>939</b>
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>20392</b>	<b>22932</b>	<b>521.05</b>	<b>21711</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>6492</b>	<b>7337</b>	<b>170.62</b>	<b>7109</b>
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>48858</b>	<b>49645</b>	<b>1145.70</b>	<b>47738</b>

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11599	10002	242.54	10106
State Control Area Hydro		7106	3295	3866	94.96	3957
<b>Total Regional Hydro</b>		<b>19340</b>	<b>14894</b>	<b>13868</b>	<b>337.50</b>	<b>14062</b>

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-250	-250	100	250	0.06	5.78	-5.72
765 KV Gwalior-Agra (D/C)	1694	1864	1694	0	43.40	0.00	43.40
400 KV Zerda-Kankroli	-115	-105	0	264	0.00	3.61	-3.61
400 KV Zerda-Bhinmal	-113	-103	6	265	0.00	3.22	-3.22
220 KV Auraiya-Malanpur	-67	-67	0	99	0.00	1.21	-1.21
220 KV Badod-Kota/Morak	7	119	97	12	2.07	0.00	2.07
Mundra-Mohindergarh(HVDC Bipole)	2003	2002	2204	0.00	48.40	0.00	48.40
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	736	925	925	0	24.55	0.00	24.55
<b>Sub Total WR</b>	<b>3895</b>	<b>4385</b>			<b>118.47</b>	<b>13.82</b>	<b>104.66</b>
Pusauli Bypass/HVDC	200	100	200	0	2.49	0.00	2.49
400 KV MZP- GKP (D/C)	152	416	520	0	9.09	0.00	9.09
400 KV Patna-Balia(D/C) X 2	678	716	913	0	17.98	0.00	17.98
400 KV B'Sharif-Balia (D/C)	20	32	136	0	1.13	0.00	1.13
765 KV Gaya-Balia	195	249	289	0	2.52	0.00	2.52
765 KV Gaya-Varanasi (D/C)	478	457	600	0	10.54	0.00	10.54
220 KV Pusauli-Sahupuri	200	187	217	0	4.48	0.00	4.48
132 KV K'nasa-Sahupuri	-36	-30	0	36	0.00	0.75	-0.75
132 KV Son Ngr-Rihand	-34	-13	0	36	0.00	0.54	-0.54
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-200	-172	0	200	0.00	2.30	-2.30
400 KV Barh -GKP (D/C)	444	510	526	0	10.87	0.00	10.87
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>2097</b>	<b>2452</b>			<b>59.10</b>	<b>3.59</b>	<b>55.50</b>
+/- 800 KV BiswanathChariali-Agra	500	500	500	0.00	10.45	0.00	10.45
<b>Sub Total NER</b>	<b>500</b>	<b>500</b>			<b>10.45</b>	<b>0.00</b>	<b>10.45</b>
<b>Total IR Exch</b>	<b>6492</b>	<b>7337</b>			<b>188.02</b>	<b>17.41</b>	<b>170.62</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
37.93	3.83	41.76	9.83	27.12	13.93	0.52	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
65.52	109.91	175.43	65.96	104.66	170.62	0.44	-5.25	-4.82

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-31	-23	0	31	0	1	-0.58

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	0.00	0.54	8.10	55.66	75.91	12.55	3.48	15.98	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)		
50.17	13.02	49.76	19.16	49.99	0.041	50.17	0.00	24.09	

VII. 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	409	8:57	401	22:27	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	8:01	397	22:33	0.0	0.0	1.4	0.0	1.4
Bareilly(PG)400kV	400	419	6:44	396	12:48	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	6:02	397	0:22	0.0	0.0	0.0	0.0	0.0
Dadri	400	414	6:02	397	0:18	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	422	6:03	399	12:17	0.0	0.0	0.5	0.0	0.5
Bawana	400	417	6:02	399	0:16	0.0	0.0	0.0	0.0	0.0
Bassi	400	424	6:02	400	22:18	0.0	0.0	2.4	0.0	2.4
Hissar	400	414	6:02	394	22:19	0.0	0.0	0.0	0.0	0.0
Moga	400	413	6:02	396	14:47	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	410	6:01	394	12:46	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	417	6:02	399	14:48	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	409	5:32	396	13:48	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	4:12	394	10:03	0.0	0.0	0.0	0.0	0.0
Amritsar	400	418	6:01	159	14:56	0.3	0.3	0.0	0.0	0.3
Kashipur	400	419	6:02	408	12:18	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	416	6:19	402	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	410	6:02	387	12:18	0.0	2.4	0.0	0.0	0.0

VIII. 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	787	6:05	746	22:36	0.0	0.0	0.0	0.0	0.0
Balia	765	796	6:58	754	22:36	0.0	0.0	0.0	0.0	0.0
Moga	765	794	6:03	760	22:19	0.0	0.0	0.0	0.0	0.0
Agra	765	796	6:05	760	0:17	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	798	6:02	763	22:10	0.0	0.0	0.0	0.0	0.0
Unnao	765	780	7:58	729	22:38	0.0	16.4	0.0	0.0	0.0
Lucknow	765	800	6:56	756	22:34	0.0	0.0	0.0	0.0	0.0
Meerut	765	804	6:02	764	22:18	0.0	0.0	2.4	0.0	2.4
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	792	6:55	750	0:18	0.0	0.0	0.0	0.0	0.0
Anta	765	798	6:07	769	0:22	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	6:02	765	22:10	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	481.92	503.43	494.84	891.94	1038.66	971.52
Pong	426.72	384.05	395.81	141.12	408.48	444.61	551.78	211.98
Tehri	829.79	740.04	768.45	189.93	767.10	181.91	731.05	427.00
Koteswar	612.50	598.50	609.64	4.38	610.75	4.95	427.00	385.32
Chamera-I	760.00	748.75	753.20	0.00	0.00	0.00	355.41	325.51
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	504.58	3.43	523.38	10.77	240.74	154.02

\* 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	1734	469	0	1585	318	0	38.74	14.14	52.88
Delhi	518	-401	0	814	-371	0	18.63	-9.81	8.82
Haryana	1852	365	0	1662	355	0	39.75	6.19	45.94
HP	-1496	-81	0	-1244	-250	0	-31.84	-2.70	-34.54
J&K	-995	-50	0	-719	-15	0	-19.90	-0.68	-20.58
CHD	0	0	0	0	0	0	0.36	0.22	0.57
Rajasthan	-523	564	0	-422	555	0	-8.85	13.37	4.52
UP	1182	0	0	875	0	0	19.54	0.00	19.54
Uttarakhand	-350	288	0	-349	486	0	-8.40	8.76	0.36
<b>Total</b>	<b>1921</b>	<b>1154</b>	<b>0</b>	<b>2204</b>	<b>1079</b>	<b>0</b>	<b>48.01</b>	<b>29.49</b>	<b>77.50</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1734	1486	965	317	0	0
Delhi	925	518	-52	-867	0	0
Haryana	1909	1484	390	-121	0	0
HP	-1240	-1500	12	-349	0	0
J&K	-694	-1096	0	-151	0	0
CHD	44	0	30	0	0	0
Rajasthan	-270	-523	567	547	0	0
UP	1198	635	0	0	0	0
Uttarakhand	-346	-352	486	288	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%
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**XII. System Constraints:**

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

0.00

**XIV. Weather Conditions For 14.07.2016 :**

**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.