

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारशिष्ट की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 08.07.2016  
Date of Reporting : 09.07.2016



### 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
49185	487	49671	50.08	48461	277	48738	50.03	1153.8	8.92

\* 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	94.03	14.03		108.06	128.74	127.03	-1.71	235.09	0.00
Haryana	40.08	0.86		40.94	148.25	145.01	-3.24	185.95	0.00
Rajasthan	95.49	0.00	25.74	121.23	65.00	70.57	5.57	191.80	0.00
Delhi	22.70			22.70	92.25	90.38	-1.87	113.08	0.03
UP	146.08	21.20		167.28	152.69	152.73	0.04	320.00	0.00
Uttarakhand		18.10		18.10	20.07	21.63	1.56	39.73	0.47
HP		20.54		20.54	4.03	7.13	3.11	27.67	0.00
J & K		19.29	0.00	19.29	18.88	14.39	-4.49	33.68	8.42
Chandigarh				0.00	6.65	6.76	0.10	6.76	0.00
<b>Total</b>	<b>398.38</b>	<b>94.02</b>	<b>25.74</b>	<b>518.14</b>	<b>636.54</b>	<b>635.62</b>	<b>-0.92</b>	<b>1153.77</b>	<b>8.92</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	9950	0	-305	2423	8858	0	-98	2024	10355	16:00	0
Haryana	8366	0	-63	2016	8254	0	-86	2297	8895	21:00	0
Rajasthan	7244	0	-249	52	8369	0	352	93	8648	1:00	0
Delhi	4515	0	-62	912	4984	0	117	614	5508	1:00	0
UP	14267	0	486	801	14082	0	-228	1174	14267	20:00	0
Uttarakhand	1830	75	194	-98	1587	0	-23	-77	1840	21:00	75
HP	1090	0	35	-1449	968	0	126	-1635	1295	10:00	0
J&K	1646	412	-120	-631	1107	277	-189	-843	1761	21:00	440
Chandigarh	277	0	-20	0	253	0	24	0	350	15:00	0
<b>Total</b>	<b>49185</b>	<b>487</b>	<b>-104</b>	<b>4026</b>	<b>48461</b>	<b>277</b>	<b>-6</b>	<b>3647</b>	<b>51212</b>	<b>21:00</b>	<b>515</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 (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI [DG:(+ve), UG: (-ve)]	
								Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)
<b>A. NTPC</b>									
Singrauli STPS (5*200+2*500)	2000	1890	2056	2070	45.22	1884	45.26		-0.03
Rihand I STPS (2*500)	1000	901	967	986	21.42	892	21.42		0.00
Rihand II STPS (2*500)	1000	940	1022	995	22.40	933	22.17		0.23
Rihand III STPS (2*500)	1000	943	1008	1016	22.13	922	22.40		-0.27
Dadri I STPS (4*210)	840	805	599	431	11.30	471	11.63		-0.34
Dadri II STPS (2*490)	980	960	963	848	19.00	792	19.74		-0.74
Unchahar I TPS (2*210)	420	343	305	320	7.05	294	7.72		-0.67
Unchahar II TPS (2*210)	420	400	372	355	7.95	331	8.77		-0.82
Unchahar III TPS (1*210)	210	200	210	170	3.87	161	4.35		-0.48
ISTPP (Jhajjar) (3*500)	1500	1425	1291	977	21.32	888	22.32		-1.00
Dadri GPS (4*130.19+2*154.51)	830	788	390	387	8.17	340	8.38		-0.21
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	0	0	0.00	0	0.00		0.00
Dadri Solar(5)	5	0	0	0	0.01	0	0.01		0.00
Unchahar Solar(10)	10	2	0	0	0.04	1	0.04		0.00
Singrauli Solar(15)	15	2	0	0	0.07	3	0.06		0.01
KHEP(4*200)	800	855	849	851	20.47	853	20.52		-0.05
<b>Sub Total (A)</b>	<b>12112</b>	<b>11484</b>	<b>10032</b>	<b>9406</b>	<b>210</b>	<b>8767</b>	<b>215</b>		<b>-4.37</b>
<b>B. NPC</b>									
NAPS (2*220)	440	382	418	414	9.12	380	9.17		-0.05
RAPS- B (2*220)	440	365	408	411	8.77	365	8.76		0.01
RAPS- C (2*220)	440	405	436	435	9.27	386	9.72		-0.45
<b>Sub Total (B)</b>	<b>1320</b>	<b>1152</b>	<b>1262</b>	<b>1260</b>	<b>27.16</b>	<b>1132</b>	<b>27.65</b>		<b>-0.49</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	540	538	544	12.86	536	12.81		0.04
Chamera II HPS (3*100)	300	301	311	302	7.26	303	7.22		0.04
Chamera III HPS (3*77)	231	231	234	233	5.25	219	5.26		-0.01
Bairasuli HPS(3*60)	180	180	183	0	2.03	85	2.04		-0.01
Salal-HPS (6*115)	690	662	668	669	16.11	671	15.88		0.23
Tanakpur-HPS (3*31.4)	94	87	94	94	2.23	93	2.06		0.17
Uri-I HPS (4*120)	480	405	451	450	9.88	412	9.75		0.13
Uri-II HPS (4*60)	240	235	238	241	5.70	237	5.63		0.06
Dhauliganga-HPS (4*70)	280	280	286	276	6.70	279	6.72		-0.02
Dulhasti-HPS (3*130)	390	258	273	264	6.28	261	6.19		0.08
Sewa-II HPS (3*40)	120	119	129	0	0.69	29	0.69		0.00
Parbati 3 (4*130)	520	390	391	0	2.95	123	2.90		0.05
<b>Sub Total (C)</b>	<b>4065</b>	<b>3688</b>	<b>3795</b>	<b>3072</b>	<b>78</b>	<b>3247</b>	<b>77</b>		<b>0.78</b>
<b>D. SJVNL</b>									
NJPC (6*250)	1500	1605	1619	1615	38.51	1605	38.52		-0.01
Rampur HEP (6*68.67)	412	442	447	447	10.81	450	10.61		0.20
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2066</b>	<b>2062</b>	<b>49.32</b>	<b>2055</b>	<b>49.13</b>		<b>0.19</b>
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	688	663	333	13.47	561	13.50		-0.03
Koteshwar HPS (4*100)	400	242	392	181	5.84	243	5.80		0.04
<b>Sub Total (E)</b>	<b>1400</b>	<b>930</b>	<b>1055</b>	<b>514</b>	<b>19.30</b>	<b>804</b>	<b>19.30</b>		<b>0.00</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	1058	1304	900	25.44	1060	25.40		0.04
Dehar HPS (6*165)	990	608	825	585	14.75	614	14.59		0.15
Pong HPS (6*66)	396	113	208	104	2.68	112	2.70		-0.02
<b>Sub Total (F)</b>	<b>2765</b>	<b>1779</b>	<b>2337</b>	<b>1589</b>	<b>42.87</b>	<b>1786</b>	<b>42.70</b>		<b>0.17</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	199	120	3.09	129	3.70		-0.61
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.18	1091	26.08		0.10
Malana Stg-II HPS (2*50)	100	0	107	80	2.16	90	2.06		0.10
Shree Cement TPS (2*150)	300	0	291	252	6.47	270	6.36		0.11
Budhil HPS(IPP) (2*35)	70	0	70	70	1.65	69	1.73		-0.07
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1767</b>	<b>1622</b>	<b>39.55</b>	<b>1648</b>	<b>39.92</b>		<b>-0.37</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>21080</b>	<b>22314</b>	<b>19526</b>	<b>466.54</b>	<b>19439</b>	<b>470.62</b>		<b>-4.08</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	970	810	20.40	850
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	210	190	4.40	184
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	596	640	14.19	591
	Goindwal(GVK) (2*270)	540	0	0	-0.05	-2
	Rajpura (2*700)	1400	1320	1320	30.97	1290
	Talwandi Saboo (3*660)	1980	1114	964	24.12	1005
	<b>Thermal (Total)</b>	<b>6560</b>	<b>4210</b>	<b>3924</b>	<b>94.03</b>	<b>3918</b>
	Total Hydro	1000	617	634	14.03	585
	<b>Total Punjab</b>	<b>7560</b>	<b>4827</b>	<b>4558</b>	<b>108.06</b>	<b>4503</b>
	Haryana	Panipat TPS (2*210+2*250)	920	548	213	8.72
DCRTPP (Yamuna nagar) (2*300)		600	473	549	11.73	489
Faridabad GPS (NTPC)(2*137.75+1*156)		432	181	172	4.19	174
RGTPP (khedar) (IPP) (2*600)		1200	758	349	15.45	644
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>1960</b>	<b>1283</b>	<b>40.08</b>	<b>1670</b>
Total Hydro		62	33	36	0.86	36
<b>Total Haryana</b>		<b>4559</b>	<b>1993</b>	<b>1319</b>	<b>40.94</b>	<b>1706</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	821	676	18.59
	suratgarh TPS (6*250)	1500	392	208	8.52	355
	Chabra TPS (4*250)	1000	214	601	10.08	420
	Dholpur GPS (3*110)	330	98	53	1.87	78
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	151	171	3.76	157
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingar (NLC) (2*125)	250	0	52	0.11	4
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	608	639	16.10	671
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	410	7.60	316
	Kawai(Adani) (2*660)	1320	1235	1199	28.87	1203
	<b>Thermal (Total)</b>	<b>8876</b>	<b>3519</b>	<b>4009</b>	<b>95</b>	<b>3979</b>
	Total Hydro	550	0	0	0.00	0
	Wind power	3214	1017	1425	25.38	1057
	Biomass	99	15	15	0.37	15
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	1032	1440	25.74	1073
	<b>Total Rajasthan</b>	<b>13469</b>	<b>4551</b>	<b>5449</b>	<b>121.23</b>	<b>5051</b>
	UP	Anpara TPS (3*210+2*500)	1630	1267	1291	31.20
Obra TPS (2*50+2*94+5*200)		1194	247	251	6.00	250
Paricha TPS (2*110+2*220+2*250)		1160	816	892	20.80	867
Panki TPS (2*105)		210	63	131	2.30	96
Harduaganj TPS (1*60+1*105+2*250)		665	527	544	12.80	533
Tanda TPS (NTPC) (4*110)		440	380	385	8.98	374
Roza TPS (IPP) (4*300)		1200	1112	1104	24.80	1033
Anpara-C (IPP) (2*600)		1200	540	536	12.60	525
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	336	405	7.80	325
Anpara-D(2*500)		1000	219	208	4.20	175
Lalitpur TPS(3*660)		1980	0	0	0.00	0
Bara(2*660)		1320	543	528	12.20	508
<b>Thermal (Total)</b>		<b>12449</b>	<b>6050</b>	<b>6275</b>	<b>144</b>	<b>5987</b>
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.40	433
Alaknanda(4*82.5)		330	341	342	8.10	338
Other Hydro		527	267	270	2.70	113
Cogeneration		981	100	100	2.40	100
<b>Total UP</b>		<b>14727</b>	<b>7193</b>	<b>7422</b>	<b>167</b>	<b>6970</b>
Uttarakhand	Total Hydro	1398	753	730	18.10	754
	Total Gas	225	0	0	0.00	0
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>753</b>	<b>730</b>	<b>18</b>	<b>754</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	141	64	2.69	112
	Pragati Gas Turbine (2x104+ 1x122)	330	263	263	6.45	269
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	253	6.05	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	321	311	7.53	314
	<b>Thermal (Total)</b>	<b>2917</b>	<b>976</b>	<b>891</b>	<b>22.70</b>	<b>946</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>976</b>	<b>891</b>	<b>22.70</b>	<b>946</b>
HP	Baspa HPS (IPP) (3*100)	300	332	332	7.92	330
	Malana HPS (IPP) (2*43)	86	96	60	1.82	76
	Other Hydro	878	466	444	10.80	450
	<b>Total HP</b>	<b>1264</b>	<b>894</b>	<b>836</b>	<b>20.54</b>	<b>856</b>
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	600	600	14.40	600
	Other Hydro/IPP	560	200	210	4.89	204
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1500</b>	<b>800</b>	<b>810</b>	<b>19.29</b>	<b>804</b>
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>21987</b>	<b>22015</b>	<b>518.14</b>	<b>21589</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>7285</b>	<b>8314</b>	<b>195.73</b>	<b>8155</b>
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>51586</b>	<b>49854</b>	<b>1180.41</b>	<b>49184</b>
<b>IV. Total Hydro Generation:</b>						
<b>Regional Entities Hydro</b>		<b>12234</b>	<b>11508</b>	<b>9388</b>	<b>241.32</b>	<b>10055</b>
<b>State Control Area Hydro</b>		<b>7106</b>	<b>4140</b>	<b>4093</b>	<b>94</b>	<b>3918</b>
<b>Total Regional Hydro</b>		<b>19340</b>	<b>15648</b>	<b>13481</b>	<b>335.34</b>	<b>13973</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	0	250	0.00	6.15	-6.15
765 KV Gwalior-Agra (D/C)	2633	2593	2841	0	55.23	0.00	55.23
400 KV Zerda-Kankroli	-29	-51	30	263	0.00	1.91	-1.91
400 KV Zerda-Bhinmal	-1	-31	103	191	0.00	1.07	-1.07
220 KV Auraiya-Malanpur	0	0	0	0	0.10	0.00	0.10
220 KV Badod-Kota/Morak	82	194	196	0	3.10	0.00	3.10
Mundra-Mohindergarh(HVDC Bipole)	2002	2501	2507	0.00	53.18	0.00	53.18
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	999	1098	1340	0	25.26	0.00	25.26
<b>Sub Total WR</b>	<b>5436</b>	<b>6054</b>			<b>136.86</b>	<b>9.13</b>	<b>127.73</b>
Pusauli Bypass/HVDC	-290	400	400	348	5.19	2.41	2.77
400 KV MZP- GKP (D/C)	348	363	537	0	9.34	0.00	9.34
400 KV Patna-Balia(D/C) X 2	511	375	671	0	12.79	0.00	12.79
400 KV B'Sharif-Balia (D/C)	65	3	144	0	0.91	0.00	0.91
765 KV Gaya-Balia	173	200	208	0	1.85	0.00	1.85
765 KV Gaya-Varanasi (D/C)	-494	-257	494	0	7.53	0.00	7.53
220 KV Pusauli-Sahupuri	187	215	222	0	4.83	0.00	4.83
132 KV K'nasa-Sahupuri	-34	-49	0	44	0.00	0.38	-0.38
132 KV Son Ngr-Rihand	-23	-6	0	30	0.00	0.35	-0.35
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	90	-220	222	240	0.00	0.56	-0.56
400 KV Barh -GKP (D/C)	516	436	548	0	11.00	0.00	11.00
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>1049</b>	<b>1460</b>			<b>53.42</b>	<b>3.71</b>	<b>49.71</b>
+/- 800 KV BiswanathChariali-Agra	800	800	800	0.00	18.28	0.00	18.28
<b>Sub Total NER</b>	<b>800</b>	<b>800</b>			<b>18.28</b>	<b>0.00</b>	<b>18.28</b>
<b>Total IR Exch</b>	<b>7285</b>	<b>8314</b>			<b>208.56</b>	<b>12.84</b>	<b>195.73</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
33.99	3.88	37.87	12.49	29.13	17.52	7.80	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
67.88	126.35	194.22	68.00	127.73	195.73	0.12	1.38	1.50

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	-28	-24	0	33	0	1	-0.60

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	0.03	6.49	50.60	76.08	14.80	2.72	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	14.01	49.80	5.14	50.00	0.035	50.18	49.92	23.92	

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	407	4:04	401	14:57	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	7:03	404	2:00	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	416	8:04	398	21:16	0.0	0.0	0.0	0.0	0.0
Kanpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	411	6:01	398	10:15	0.1	0.1	0.0	0.0	0.1
Ballabgarh	400	418	19:02	403	11:44	0.0	0.0	0.0	0.0	0.0
Bawana	400	412	5:47	399	14:50	0.0	0.0	0.0	0.0	0.0
Bassi	400	419	18:35	400	22:17	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	6:01	397	19:56	0.0	0.0	0.0	0.0	0.0
Moga	400	407	4:04	395	14:45	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	404	5:42	394	14:45	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	413	3:59	399	14:47	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	405	3:53	394	11:48	0.0	0.0	0.0	0.0	0.0
Wagoora	400	410	23:59	392	10:51	0.0	0.0	0.0	0.0	0.0
Amritsar	400	413	4:01	399	19:56	0.0	0.0	0.0	0.0	0.0
Kashipur	400	416	18:16	409	21:09	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	411	8:03	397	14:48	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	403	18:33	388	21:09	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	784	18:34	752	1:47	0.0	0.0	0.0	0.0	0.0
Balia	765	789	18:27	760	2:05	0.0	0.0	0.0	0.0	0.0
Moga	765	783	6:02	758	14:52	0.0	0.0	0.0	0.0	0.0
Agra	765	790	8:00	759	14:53	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	788	6:01	764	14:50	0.0	0.0	0.0	0.0	0.0
Unnao	765	775	8:00	751	1:42	0.0	0.0	0.0	0.0	0.0
Lucknow	765	794	8:03	766	2:05	0.0	0.0	0.0	0.0	0.0
Meerut	765	796	8:00	765	14:50	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	770	12:16	755	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	766	0:00	766	0:00	0.0	0.0	0.0	0.0	0.0
Anta	765	788	18:22	767	22:17	0.0	0.0	0.0	0.0	0.0
Phagi	765	792	18:33	762	20:56	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	481.52	495.33	490.83	758.57	1057.27	951.50
Pong	426.72	384.05	394.56	116.59	406.12	370.28	185.31	214.22
Tehri	829.79	740.04	763.95	154.00	755.80	90.00	421.17	433.00
Koteshwar	612.50	598.50	609.37	4.10	611.03	5.20	433.00	384.46
Chamera-I	760.00	748.75	750.50	0.00	0.00	0.00	197.64	351.57
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	504.44	5.54	522.75	10.24	276.59	185.07

\* 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	1638	386	0	1741	683	0	39.96	14.72	54.69
Delhi	435	179	0	899	12	0	19.02	1.61	20.63
Haryana	1946	351	0	1667	350	0	39.86	8.75	48.61
HP	-1502	-133	0	-1249	-200	0	-31.98	-3.81	-35.78
J&K	-793	-50	0	-616	-15	0	-17.37	-0.64	-18.01
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-423	516	0	-423	475	0	-10.14	12.33	2.19
UP	1174	0	0	801	0	0	21.08	0.00	21.08
Uttarakhand	-347	270	0	-346	248	0	-8.33	6.66	-1.67
<b>Total</b>	<b>2129</b>	<b>1518</b>	<b>0</b>	<b>2474</b>	<b>1552</b>	<b>0</b>	<b>52.46</b>	<b>39.62</b>	<b>92.09</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1827	1365	890	386	0	0
Delhi	1011	435	631	-438	0	0
Haryana	1946	1444	405	202	0	0
HP	-1246	-1503	-101	-302	0	0
J&K	-591	-969	0	-65	0	0
CHD	44	0	0	0	0	0
Rajasthan	-423	-423	650	470	0	0
UP	1194	722	0	0	0	0
Uttarakhand	-346	-348	422	202	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	15.97%

(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 08.07.2016 :**

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

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

765KV Varanasi – Kanpur – 1 charged for first time at 18:45 Hrs. The initial flow was 335 MW from Varanasi to Kanpur along with bus reactor at both ends. 400kV Bay No. 402, 403 at Baghat(PG) first time charged at 1524hrs and 1522hrs respectively on 08.07.2016.

**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.