

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारशिद की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 12.09.2016

Date of Reporting : 13.09.2016



### 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
49927	2372	52299	50.14	47082	191	47274	50.02	1146.4	19.96

\* 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	74.41	18.65		93.06	128.20	127.93	-0.26	220.99	0.00
Haryana	45.76	0.90		46.66	133.01	131.96	-1.05	178.62	3.95
Rajasthan	112.88	1.82	21.00	135.70	70.57	71.22	0.64	206.92	0.45
Delhi	21.44			21.44	80.31	80.89	0.58	102.34	0.00
UP	156.45	23.95		180.40	148.15	152.64	4.49	333.04	7.07
Uttarakhand		18.16		21.81	15.54	16.39	0.84	38.20	0.00
HP		24.03		24.03	0.90	2.83	1.93	26.86	0.12
J & K		21.97	0.00	21.97	17.02	11.51	-5.51	33.48	8.37
Chandigarh				0.00	6.09	5.95	-0.14	5.95	0.00
<b>Total</b>	<b>410.94</b>	<b>109.49</b>	<b>21.00</b>	<b>545.08</b>	<b>599.80</b>	<b>601.32</b>	<b>1.52</b>	<b>1146.40</b>	<b>19.96</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	9400	0	-109	1388	8354	0	142	1901	9647	11:00	0
Haryana	8245	197	-15	1078	7437	0	200	1899	8490	21:00	109
Rajasthan	8793	0	-140	389	8545	0	-37	247	9081	24:00	259
Delhi	4545	0	24	269	4202	0	209	322	4937	24:00	0
UP	14180	1780	605	392	15304	0	184	1703	15398	1:00	0
Uttarakhand	1761	0	86	-7	1441	0	25	60	1832	19:00	0
HP	1224	17	168	-1616	832	0	72	-1386	1244	10:00	16
J&K	1513	378	-399	-563	765	191	-527	-663	1838	21:00	459
Chandigarh	267	0	-14	0	203	0	16	0	313	12:00	0
<b>Total</b>	<b>49927</b>	<b>2372</b>	<b>206</b>	<b>1330</b>	<b>47082</b>	<b>191</b>	<b>283</b>	<b>4082</b>	<b>50485</b>	<b>23:00</b>	<b>812</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 [OD:(+ve), UD: (-ve)]	
								Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)
<b>A. NTPC</b>									
Singrauli STPS (5*200+2*500)	2000	1680	1816	1802	40.35	1681	40.08		0.27
Rihand I STPS (2*500)	1000	938	1019	906	21.58	899	21.89		-0.31
Rihand II STPS (2*500)	1000	935	849	863	21.04	877	21.27		-0.23
Rihand III STPS (2*500)	1000	953	1023	884	22.37	932	21.85		0.51
Dadri I STPS (4*210)	840	815	799	526	15.65	652	16.19		-0.54
Dadri II STPS (2*490)	980	960	949	703	18.45	769	19.08		-0.63
Unchahar I TPS (2*210)	420	359	362	276	7.17	299	7.77		-0.61
Unchahar II TPS (2*210)	420	400	388	291	7.77	324	8.34		-0.57
Unchahar III TPS (1*210)	210	200	208	137	3.81	159	4.18		-0.37
ISTPP (Jhajjar) (3*500)	1500	1425	995	594	14.09	587	14.31		-0.22
Dadri GPS (4*130.19+2*154.51)	830	788	352	375	7.52	313	8.14		-0.62
Anta GPS (3*88.71+1*153.2)	419	399	218	254	5.11	213	5.14		-0.04
Auraiya GPS (4*111.19+2*109.30)	663	623	0	0	0.00	0	0.00		0.00
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	0.02	1	0.04		-0.02
KHEP(4*200)	800	855	786	394	14.08	587	13.50		0.58
<b>Sub Total (A)</b>	<b>12112</b>	<b>11334</b>	<b>9764</b>	<b>8005</b>	<b>199</b>	<b>8294</b>	<b>202</b>		<b>-2.80</b>
<b>B. NPC</b>									
NAPS (2*220)	440	188	212	212	4.53	189	4.51		0.01
RAPS- B (2*220)	440	374	415	418	8.97	374	8.98		-0.01
RAPS- C (2*220)	440	200	222	221	4.46	186	4.80		-0.34
<b>Sub Total (B)</b>	<b>1320</b>	<b>762</b>	<b>849</b>	<b>851</b>	<b>17.95</b>	<b>748</b>	<b>18.29</b>		<b>-0.34</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	550	550	0	7.22	301	7.00		0.22
Chamera II HPS (3*100)	300	301	308	200	5.86	244	5.75		0.11
Chamera III HPS (3*77)	231	164	227	154	3.90	163	3.90		0.00
Bairasuli HPS(3*60)	180	179	182	0	1.96	82	1.92		0.04
Salal-HPS (6*115)	690	603	676	565	15.39	641	14.37		1.02
Tanakpur-HPS (3*31.4)	94	90	97	96	2.30	96	2.17		0.13
Uri-I HPS (4*120)	480	378	433	363	9.46	394	9.07		0.39
Uri-II HPS (4*60)	240	215	240	222	5.21	217	5.16		0.05
Dhauliganga-HPS (4*70)	280	155	204	206	3.75	156	3.71		0.04
Dulhasti-HPS (3*130)	390	383	396	390	9.23	384	9.18		0.04
Sewa-II HPS (3*40)	120	119	126	0	0.81	34	0.80		0.01
Parbati 3 (4*130)	520	520	514	0	2.58	108	2.54		0.05
<b>Sub Total (C)</b>	<b>4065</b>	<b>3646</b>	<b>3952</b>	<b>2196</b>	<b>68</b>	<b>2819</b>	<b>66</b>		<b>2.10</b>
<b>D. SJVNL</b>									
NJPC (6*250)	1500	1605	1532	1600	36.76	1532	37.03		-0.27
Rampur HEP (6*68.67)	412	442	440	447	10.34	431	10.23		0.11
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>1972</b>	<b>2047</b>	<b>47.10</b>	<b>1963</b>	<b>47.27</b>		<b>-0.16</b>
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	1071	1052	0	7.88	328	7.50		0.38
Koteshwar HPS (4*100)	400	100	298	68	2.44	102	2.40		0.04
<b>Sub Total (E)</b>	<b>1400</b>	<b>1171</b>	<b>1350</b>	<b>68</b>	<b>10.32</b>	<b>430</b>	<b>9.90</b>		<b>0.42</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	874	1315	667	20.97	874	20.97		0.00
Dehar HPS (6*165)	990	576	825	580	14.13	589	13.83		0.31
Pong HPS (6*66)	396	317	396	264	7.70	321	7.60		0.10
<b>Sub Total (F)</b>	<b>2765</b>	<b>1766</b>	<b>2536</b>	<b>1511</b>	<b>42.81</b>	<b>1784</b>	<b>42.39</b>		<b>0.42</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	191	144	2.85	119	2.80		0.05
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1000	20.84	868	20.94		-0.10
Malana Stg-II HPS (2*50)	100	0	100	75	1.85	77	1.76		0.09
Shree Cement TPS (2*150)	300	0	298	222	6.24	260	6.32		-0.08
Budhil HPS(IPP) (2*35)	70	0	49	50	1.10	46	1.18		-0.08
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1738</b>	<b>1491</b>	<b>32.88</b>	<b>1370</b>	<b>33.01</b>		<b>-0.13</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20726</b>	<b>22160</b>	<b>16169</b>	<b>417.79</b>	<b>17408</b>	<b>418.29</b>		<b>-0.49</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	840	530	15.59	649
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	335	205	6.07	253
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	466	400	9.36	390
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1320	1020	28.48	1187
	Talwandi Saboo (3*660)	1980	616	616	14.95	623
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3577</b>	<b>2771</b>	<b>74.41</b>	<b>3100</b>
	Total Hydro	1000	778	781	18.65	777
	<b>Total Punjab</b>	<b>7560</b>	<b>4355</b>	<b>3552</b>	<b>93.06</b>	<b>3878</b>
	Haryana	Panipat TPS (2*210+2*250)	920	230	204	5.06
DCRTPP (Yamuna nagar) (2*300)		600	559	470	12.08	503
Faridabad GPS (NTPC)(2*137.75+1*156)		432	322	308	7.47	311
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	1176	739	21.15	881
<b>Thermal (Total)</b>		<b>4497</b>	<b>2287</b>	<b>1721</b>	<b>45.76</b>	<b>1907</b>
Total Hydro		62	35	36	0.90	38
<b>Total Haryana</b>		<b>4559</b>	<b>2322</b>	<b>1757</b>	<b>46.66</b>	<b>1944</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	831	871	21.11
	suratgarh TPS (6*250)	1500	551	584	13.76	573
	Chabra TPS (4*250)	1000	836	758	19.36	807
	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	107	109	4.11	171
	RAPS A (NPC) (1*100+1*200)	300	165	187	2.70	112
	Barsingsar (NLC) (2*125)	250	226	226	5.33	222
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	726	778	18.26	761
	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	1189	1220	28.25	1177
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4631</b>	<b>4733</b>	<b>113</b>	<b>4704</b>
	Total Hydro	550	48	93	1.82	76
	Wind power	3214	683	971	20.35	848
	Biomass	99	19	19	0.19	8
	Solar	730	1	0	0.46	19
	Renewable/Others (Total)	4043	703	990	21.00	875
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5382</b>	<b>5816</b>	<b>135.70</b>	<b>5654</b>
	UP	Anpara TPS (3*210+2*500)	1630	941	1113	23.08
Obra TPS (2*50+2*94+5*200)		1194	191	188	4.37	182
Paricha TPS (2*110+2*220+2*250)		1160	929	838	20.80	867
Panki TPS (2*105)		210	149	153	3.46	144
Harduaganj TPS (1*60+1*105+2*250)		665	212	218	5.17	215
Tanda TPS (NTPC) (4*110)		440	365	353	8.66	361
Roza TPS (IPP) (4*300)		1200	1098	1094	26.21	1092
Anpara-C (IPP) (2*600)		1200	918	954	21.89	912
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	405	9.01	375
Anpara-D(2*500)		1000	324	539	12.28	512
Lalitpur TPS(3*660)		1980	459	490	10.22	426
Bara(2*660)		1320	224	552	10.10	421
<b>Thermal (Total)</b>		<b>12449</b>	<b>6215</b>	<b>6897</b>	<b>155</b>	<b>6469</b>
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.47	436
Alaknanda(4*82.5)		330	339	340	8.11	338
Other Hydro		527	218	267	5.38	224
Cogeneration		981	50	50	1.20	50
<b>Total UP</b>	<b>14727</b>	<b>7257</b>	<b>7989</b>	<b>180</b>	<b>7517</b>	
Uttarakhand	Total Hydro	1398	754	719	18.16	757
	Total Gas	225	163	162	3.65	152
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>917</b>	<b>881</b>	<b>22</b>	<b>909</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	73	75	1.82	76
	Pragati Gas Turbine (2x104+ 1x122)	330	265	265	6.51	271
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	250	6.08	253
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.06	294
	<b>Thermal (Total)</b>	<b>2917</b>	<b>918</b>	<b>920</b>	<b>21.44</b>	<b>893</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>918</b>	<b>920</b>	<b>21.44</b>	<b>893</b>
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.83	326
	Malana HPS (IPP) (2*43)	86	106	106	2.63	110
	Other Hydro	878	579	555	13.57	566
	<b>Total HP</b>	<b>1264</b>	<b>1015</b>	<b>991</b>	<b>24.03</b>	<b>1001</b>
J & K	Baqlihar HPS (IPP) (3*150+2*150)	750	733	733	17.60	733
	Other Hydro/IPP	560	181	185	4.38	182
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1500</b>	<b>914</b>	<b>918</b>	<b>21.97</b>	<b>915</b>
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>23080</b>	<b>22824</b>	<b>545.08</b>	<b>22712</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>7516</b>	<b>9883</b>	<b>200.03</b>	<b>8334</b>
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>52756</b>	<b>48876</b>	<b>1162.90</b>	<b>48454</b>
<b>IV. Total Hydro Generation:</b>						
<b>Regional Entities Hydro</b>		<b>12234</b>	<b>11986</b>	<b>7435</b>	<b>207.51</b>	<b>8646</b>
<b>State Control Area Hydro</b>		<b>7106</b>	<b>4699</b>	<b>4742</b>	<b>109.49</b>	<b>4714</b>
<b>Total Regional Hydro</b>		<b>19340</b>	<b>16685</b>	<b>12177</b>	<b>317.00</b>	<b>13360</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	
Vindhyachal(HVDC B/B)	100	500	500	50	6.74	0.25	6.50
765 KV Gwalior-Agra (D/C)	2479	2949	1500	0	54.01	0.00	54.01
400 KV Zerda-Kankroli	-12	-146	0	198	0.00	2.27	-2.27
400 KV Zerda-Bhinmal	18	-106	56	179	0.00	1.00	-1.00
220 KV Auraiya-Malanpur	-51	-68	0	89	0.00	1.27	-1.27
220 KV Badod-Kota/Morak	0	23	62	49	0.39	0.00	0.39
Mundra-Mohinderghar(HVDC Bipole)	1602	2503	2520	0.00	49.07	0.00	49.07
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1025	1155	1256	0	26.56	0.00	26.56
<b>Sub Total WR</b>	<b>5161</b>	<b>6810</b>			<b>136.77</b>	<b>4.79</b>	<b>131.97</b>
Pusauli Bypass/HVDC	250	250	250	0	6.07	0.00	6.07
400 KV MZP- GKP (D/C)	140	616	666	0	11.76	0.00	11.76
400 KV Patna-Balia(D/C) X 2	424	449	538	0	10.65	0.00	10.65
400 KV B'Sharif-Balia (D/C)	11	121	219	0	2.72	0.00	2.72
765 KV Gaya-Balia	205	289	358	0	3.30	0.00	3.30
765 KV Gaya-Varanasi (D/C)	438	482	653	0	12.14	0.00	12.14
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-24	-24	0	28	0.00	0.56	-0.56
132 KV Son Ngr-Rihand	0	-27	0	30	0.00	0.32	-0.32
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-215	-148	0	237	0.00	2.91	-2.91
400 KV Barh -GKP (D/C)	360	400	430	0	8.47	0.00	8.47
400 kV B'Sharif - Varanasi (D/C)	98	-12	117	98	0.47	0.00	0.47
<b>Sub Total ER</b>	<b>1687</b>	<b>2396</b>			<b>55.58</b>	<b>3.79</b>	<b>51.79</b>
+/- 800 KV BiswanathChariali-Agra	668	677	677	0.00	16.27	0.00	16.27
<b>Sub Total NER</b>	<b>668</b>	<b>677</b>			<b>16.27</b>	<b>0.00</b>	<b>16.27</b>
<b>Total IR Exch</b>	<b>7516</b>	<b>9883</b>			<b>208.61</b>	<b>8.58</b>	<b>200.03</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
40.57	3.78	44.34	17.91	5.83	9.66	19.04	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
71.92	145.42	217.34	68.05	131.97	200.03	-3.86	-13.45	-17.31

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	-27	-23	0	29	0	1	-0.50

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	2.91	41.71	72.22	21.11	3.87	0.09	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)		
50.20	18.01	49.80	18.09	50.01	0.032	50.19	50.01	27.78	

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	0:00	400	13:55	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	7:02	398	0:14	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	415	6:16	396	14:29	0.0	0.0	0.0	0.0	0.0
Kanpur	400	412	17:19	395	14:29	0.0	0.0	0.0	0.0	0.0
Dadri	400	411	6:03	391	14:38	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	418	6:02	396	14:31	0.0	0.0	0.0	0.0	0.0
Bawana	400	415	6:18	396	14:30	0.0	0.0	0.0	0.0	0.0
Bassi	400	418	18:00	395	22:21	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	18:01	390	14:39	0.0	0.0	0.0	0.0	0.0
Moga	400	414	6:05	396	14:45	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	416	4:05	401	12:13	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	418	4:08	398	14:49	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	416	4:01	399	14:28	0.0	0.0	0.0	0.0	0.0
Wagoora	400	413	3:50	382	19:24	0.0	20.6	0.0	0.0	0.0
Amritsar	400	417	2:56	290	16:43	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	415	2:44	396	12:10	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	409	6:11	384	14:51	0.0	9.3	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	776	4:03	744	14:30	0.0	0.0	0.0	0.0	0.0
Balia	765	782	6:17	751	14:30	0.0	0.0	0.0	0.0	0.0
Moga	765	802	6:05	766	14:52	0.0	0.0	0.7	0.0	0.7
Agra	765	790	18:01	749	14:29	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	791	17:59	758	14:38	0.0	0.0	0.0	0.0	0.0
Unnao	765	760	20:55	732	14:56	0.0	26.3	0.0	0.0	0.0
Lucknow	765	784	6:17	753	14:30	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	6:16	759	14:56	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	790	18:01	752	14:56	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	789	6:17	753	14:55	0.0	0.0	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	790	18:00	755	23:06	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	502.98	1219.07	511.29	1605.30	781.63	645.00
Pong	426.72	384.05	418.01	794.52	421.92	975.89	439.48	455.16
Tehri	829.79	740.04	824.15	1086.79	820.90	1023.38	251.92	171.00
Koteshwar	612.50	598.50	608.75	3.98	610.83	5.00	171.00	161.11
Chamera-I	760.00	748.75	753.15	0.00	0.00	0.00	200.67	0.00
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	521.01	7.23	513.73	10.17	199.36	303.92

\* 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	761	1140	0	357	1031	0	18.65	26.65	45.29
Delhi	523	-201	0	337	-68	0	12.65	-1.56	11.09
Haryana	1614	272	13	767	297	13	31.98	4.00	35.98
HP	-957	-430	0	-652	-964	0	-20.06	-12.89	-32.95
J&K	-548	-115	0	-548	-15	0	-13.74	-0.48	-14.22
CHD	0	0	0	0	0	0	0.36	0.17	0.53
Rajasthan	-281	523	5	-129	513	5	-3.54	12.65	9.10
UP	770	933	0	392	0	0	9.78	6.38	16.16
Uttarakhand	-182	242	0	-182	175	0	-4.36	6.51	2.14
<b>Total</b>	<b>1700</b>	<b>2364</b>	<b>18</b>	<b>343</b>	<b>970</b>	<b>18</b>	<b>31.71</b>	<b>41.42</b>	<b>73.13</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1224	357	1547	635	0	0
Delhi	683	337	331	-509	0	0
Haryana	1950	767	360	-293	14	13
HP	-652	-1109	-303	-1069	0	0
J&K	-548	-618	85	-115	0	0
CHD	44	0	39	-20	0	0
Rajasthan	-129	-281	549	475	5	5
UP	866	223	982	0	0	0
Uttarakhand	-182	-182	457	91	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	15.28%
ER	0.00%
Simultaneous	9.72%

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

WR	45.83%
ER	0.00%
Simultaneous	32.64%

(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:**

**XIV. Weather Conditions For 12.09.2016 :**

**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.