

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारशिद की पूर्ण स्वाभित्त्व प्राप्ति सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 13.09.2016

Date of Reporting : 14.09.2016



### 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
51314	581	51895	50.14	47675	695	48369	50.02	1147.9	13.16

\*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	83.07	18.45		101.52	121.27	120.93	-0.34	222.45	0.00
Haryana	44.32	0.85		45.17	136.62	135.09	-1.53	180.26	0.00
Rajasthan	122.45	1.48	10.82	134.75	72.81	73.68	0.87	208.43	3.59
Delhi	21.38			21.38	77.98	79.59	1.61	100.97	0.04
UP	153.55	24.53		178.08	150.44	153.23	2.79	331.31	0.44
Uttarakhand		18.72		21.36	14.63	13.68	-0.95	35.04	0.00
HP		23.54		23.54	2.41	4.08	1.66	27.61	0.00
J & K		21.22	0.00	21.22	18.71	15.16	-3.55	36.38	9.10
Chandigarh				0.00	5.72	5.49	-0.23	5.49	0.00
<b>Total</b>	<b>424.78</b>	<b>108.79</b>	<b>10.82</b>	<b>547.02</b>	<b>600.58</b>	<b>600.92</b>	<b>0.34</b>	<b>1147.93</b>	<b>13.16</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	9453	0	171	1468	8482	0	119	901	9598	16:00	0
Haryana	8720	0	30	1887	7689	0	211	2054	8720	20:00	0
Rajasthan	9015	0	22	407	8815	159	-36	418	9347	24:00	340
Delhi	4426	0	-32	281	4296	0	220	183	5006	24:00	0
UP	14767	135	6	650	14759	235	390	1374	14785	23:00	0
Uttarakhand	1737	0	-54	-36	1251	0	-63	95	1737	20:00	0
HP	1173	0	50	-1481	968	0	74	-1300	1308	10:00	0
J&K	1784	446	-179	-463	1202	301	-200	-663	1900	6:00	475
Chandigarh	241	0	-48	-20	213	0	25	0	265	15:00	0
<b>Total</b>	<b>51314</b>	<b>581</b>	<b>-33</b>	<b>2693</b>	<b>47675</b>	<b>695</b>	<b>740</b>	<b>3062</b>	<b>51314</b>	<b>20:00</b>	<b>581</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 Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW		(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1307	1336	1843	32.16	1340	31.35	0.81
Rihand I STPS (2*500)	1000	935	991	1028	18.89	787	22.21	-3.32
Rihand II STPS (2*500)	1000	934	977	941	22.37	932	22.02	0.35
Rihand III STPS (2*500)	1000	953	1011	907	21.64	902	22.78	-1.14
Dadri I STPS (4*210)	840	815	804	796	16.69	695	17.86	-1.17
Dadri II STPS (2*490)	980	960	1005	791	19.81	826	21.09	-1.27
Unchahar I TPS (2*210)	420	356	354	335	7.71	321	8.38	-0.68
Unchahar II TPS (2*210)	420	400	400	379	8.86	369	9.49	-0.62
Unchahar III TPS (1*210)	210	200	194	199	4.41	184	4.72	-0.32
ISTPP (Jhajjar) (3*500)	1500	1425	613	614	14.28	595	14.08	0.20
Dadri GPS (4*130.19+2*154.51)	830	787	329	332	7.33	305	7.84	-0.52
Anta GPS (3*88.71+1*153.2)	419	399	227	210	5.14	214	5.19	-0.05
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	0.03	1	0.04	-0.01
Singrauli Solar(15)	15	2	0	0	0.00	0	0.05	-0.05
KHEP(4*200)	800	855	854	651	14.02	584	13.50	0.52
<b>Sub Total (A)</b>	<b>12112</b>	<b>10953</b>	<b>9095</b>	<b>9026</b>	<b>193</b>	<b>8056</b>	<b>201</b>	<b>-7.29</b>
<b>B. NPC</b>								
NAPS (2*220)	440	189	214	214	4.58	191	4.54	0.04
RAPS- B (2*220)	440	374	421	421	9.12	380	8.98	0.14
RAPS- C (2*220)	440	200	220	220	4.60	192	4.80	-0.20
<b>Sub Total (B)</b>	<b>1320</b>	<b>763</b>	<b>855</b>	<b>855</b>	<b>18.30</b>	<b>762</b>	<b>18.31</b>	<b>-0.02</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	540	549	0	7.31	305	7.00	0.31
Chamera II HPS (3*100)	300	301	309	230	5.29	220	4.98	0.32
Chamera III HPS (3*77)	231	167	225	157	3.60	150	3.55	0.05
Bairasuli HPS(3*60)	180	179	123	0	1.96	81	1.86	0.10
Salal-HPS (6*115)	690	596	677	565	15.15	631	14.32	0.83
Tanakpur-HPS (3*31.4)	94	82	90	75	1.97	82	1.97	0.00
Uri-I HPS (4*120)	480	359	390	405	9.12	380	8.61	0.51
Uri-II HPS (4*60)	240	208	210	184	5.09	212	4.98	0.11
Dhauliganga-HPS (4*70)	280	250	279	221	4.66	194	4.55	0.11
Dulhasti-HPS (3*130)	390	383	398	391	9.24	385	9.18	0.05
Sewa-II HPS (3*40)	120	119	126	0	0.80	33	0.80	0.00
Parbati 3 (4*130)	520	520	411	0	2.36	98	2.28	0.09
<b>Sub Total (C)</b>	<b>4065</b>	<b>3703</b>	<b>3788</b>	<b>2227</b>	<b>67</b>	<b>2773</b>	<b>64</b>	<b>2.48</b>
<b>D. SJVNL</b>								
NJPC (6*250)	1500	1605	1606	1284	33.09	1379	33.01	0.08
Rampur HEP (6*68.67)	412	442	445	370	9.46	394	9.18	0.28
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2051</b>	<b>1654</b>	<b>42.54</b>	<b>1773</b>	<b>42.19</b>	<b>0.36</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	1071	1040	0	7.55	315	7.50	0.05
Koteshwar HPS (4*100)	400	97	212	72	2.37	99	2.34	0.03
<b>Sub Total (E)</b>	<b>1400</b>	<b>1169</b>	<b>1252</b>	<b>72</b>	<b>9.92</b>	<b>414</b>	<b>9.84</b>	<b>0.09</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	869	1338	667	21.03	876	20.86	0.17
Dehar HPS (6*165)	990	577	825	570	13.92	580	13.85	0.07
Pong HPS (6*66)	396	339	396	330	8.18	341	8.14	0.04
<b>Sub Total (F)</b>	<b>2765</b>	<b>1785</b>	<b>2559</b>	<b>1567</b>	<b>43.13</b>	<b>1797</b>	<b>42.85</b>	<b>0.28</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	191	65	2.46	103	2.59	-0.13
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	700	18.93	789	19.02	-0.09
Malana Stg-II HPS (2*50)	100	0	90	60	1.74	73	1.64	0.10
Shree Cement TPS (2*150)	300	0	294	279	6.37	265	6.32	0.05
Budhil HPS(IPP) (2*35)	70	0	45	50	1.02	42	1.18	-0.17
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1720</b>	<b>1153</b>	<b>30.52</b>	<b>1272</b>	<b>30.74</b>	<b>-0.23</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20420</b>	<b>21320</b>	<b>16555</b>	<b>404.30</b>	<b>16846</b>	<b>408.63</b>	<b>-4.33</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	720	840	17.59	733
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	270	328	7.08	295
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	389	462	9.77	407
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1120	1320	31.24	1302
	Talwandi Saboo (3*660)	1980	770	616	17.42	726
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3269</b>	<b>3566</b>	<b>83.07</b>	<b>3461</b>
	Total Hydro	1000	778	774	18.45	769
	<b>Total Punjab</b>	<b>7560</b>	<b>4047</b>	<b>4340</b>	<b>101.52</b>	<b>4230</b>
	Haryana	Panipat TPS (2*210+2*250)	920	200	204	3.51
DCRTPP (Yamuna nagar) (2*300)		600	559	466	11.83	493
Faridabad GPS (NTPC)(2*137.75+1*156)		432	309	293	7.47	311
RGTTP (khedar) (IPP) (2*600)		1200	777	0	8.82	368
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	194	742	12.69	529
<b>Thermal (Total)</b>		<b>4497</b>	<b>2039</b>	<b>1705</b>	<b>44.32</b>	<b>1847</b>
Total Hydro		62	37	36	0.85	35
<b>Total Haryana</b>		<b>4559</b>	<b>2076</b>	<b>1741</b>	<b>45.17</b>	<b>1882</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	910	942	22.06
	suratgarh TPS (6*250)	1500	871	906	23.86	994
	Chabra TPS (4*250)	1000	663	823	17.84	743
	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	2.69	112
	RAPS A (NPC) (1*100+1*200)	300	167	166	4.15	173
	Barsingar (NLC) (2*125)	250	217	226	5.33	222
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	769	831	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	1235	1205	28.26	1178
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4940</b>	<b>5209</b>	<b>122</b>	<b>5102</b>
	Total Hydro	550	48	48	1.48	62
	Wind power	3214	405	522	10.08	420
	Biomass	99	24	24	0.57	24
	Solar	730	1	0	0.17	7
	Renewable/Others (Total)	4043	430	546	10.82	451
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5418</b>	<b>5803</b>	<b>134.75</b>	<b>5615</b>
	UP	Anpara TPS (3*210+2*500)	1630	905	858	22.55
Obra TPS (2*50+2*94+5*200)		1194	213	190	4.70	196
Paricha TPS (2*110+2*220+2*250)		1160	888	918	20.30	846
Panki TPS (2*105)		210	144	144	3.40	142
Harduaganj TPS (1*60+1*105+2*250)		665	419	214	6.30	263
Tanda TPS (NTPC) (4*110)		440	358	374	8.58	357
Roza TPS (IPP) (4*300)		1200	1080	1098	26.28	1095
Anpara-C (IPP) (2*600)		1200	941	936	22.20	925
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	405	9.29	387
Anpara-D(2*500)		1000	304	344	7.43	309
Lalitpur TPS(3*660)		1980	408	491	10.15	423
Bara(2*660)		1320	554	267	11.18	466
<b>Thermal (Total)</b>		<b>12449</b>	<b>6619</b>	<b>6239</b>	<b>152</b>	<b>6348</b>
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.47	436
Alaknanda(4*82.5)		330	333	333	8.00	333
Other Hydro		527	289	277	6.06	253
Cogeneration		981	50	50	1.20	50
<b>Total UP</b>		<b>14727</b>	<b>7726</b>	<b>7334</b>	<b>178</b>	<b>7420</b>
Uttarakhand	Total Hydro	1398	844	757	18.72	780
	Total Gas	225	163	87	2.64	110
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>1007</b>	<b>844</b>	<b>21</b>	<b>890</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.08	-3
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.84	77
	Pragati Gas Turbine (2x104+ 1x122)	330	266	268	6.51	271
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	253	254	6.08	254
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	300	7.04	293
	<b>Thermal (Total)</b>	<b>2917</b>	<b>924</b>	<b>896</b>	<b>21.38</b>	<b>891</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>924</b>	<b>896</b>	<b>21.38</b>	<b>891</b>
HP	Baspa HPS (IPP) (3*100)	300	300	327	7.18	299
	Malana HPS (IPP) (2*43)	86	106	106	2.63	110
	Other Hydro	878	582	583	13.72	572
	<b>Total HP</b>	<b>1264</b>	<b>988</b>	<b>1016</b>	<b>23.54</b>	<b>981</b>
J & K	Baqlihar HPS (IPP) (3*150+2*150)	750	732	733	16.84	702
	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>913</b>	<b>918</b>	<b>21.22</b>	<b>884</b>
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>23099</b>	<b>22892</b>	<b>547.02</b>	<b>22792</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>9165.76</b>	<b>9581.76</b>	<b>217.31</b>	<b>9054</b>
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>53585</b>	<b>49028</b>	<b>1168.62</b>	<b>48693</b>
<b>IV. Total Hydro Generation:</b>						
<b>Regional Entities Hydro</b>		<b>12234</b>	<b>11886</b>	<b>6995</b>	<b>199.28</b>	<b>8303</b>
<b>State Control Area Hydro</b>		<b>7106</b>	<b>4828</b>	<b>4681</b>	<b>108.79</b>	<b>4643</b>
<b>Total Regional Hydro</b>		<b>19340</b>	<b>16714</b>	<b>11676</b>	<b>308.07</b>	<b>12946</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)	500	50	500	0	8.20	0.00	8.20
765 KV Gwalior-Agra (D/C)	2644	2731	3004	0	61.34	0.00	61.34
400 KV Zerda-Kankroli	64	-53	66	157	0.00	1.14	-1.14
400 KV Zerda-Bhinmal	91	7	123	103	0.47	0.00	0.47
220 KV Auraiya-Malanpur	-38	-51	0	82	0.00	1.00	-1.00
220 KV Badoi-Kota/Morak	39	60	44	32	0.51	0.00	0.51
Mundra-Mohindergarh(HVDC Bipole)	1802	2501	2506	0.00	50.09	0.00	50.09
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1189	1203	669	0	26.73	0.00	26.73
<b>Sub Total WR</b>	<b>6291</b>	<b>6448</b>			<b>147.33</b>	<b>2.14</b>	<b>145.19</b>
Pusauli Bypass/HVDC	250	250	250	0	6.08	0.00	6.08
400 KV MZP- GKP (D/C)	228	480	602	0	11.03	0.00	11.03
400 KV Patna-Balia(D/C) X 2	551	448	583	0	12.23	0.00	12.23
400 KV B'Sharif-Balia (D/C)	74	127	206	0	3.29	0.00	3.29
765 KV Gaya-Balia	298	317	362	0	3.62	0.00	3.62
765 KV Gaya-Varanasi (D/C)	631	589	704	0	14.83	0.00	14.83
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-30	-28	0	30	0.00	0.50	-0.50
132 KV Son Ngr-Rihand	-30	0	0	30	0.00	0.24	-0.24
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-181	-150	0	229	0.00	2.93	-2.93
400 KV Barh -GKP (D/C)	408	410	416	0	8.62	0.00	8.62
400 kV B'Sharif - Varanasi (D/C)	10	13	63	64	0.61	0.00	0.61
<b>Sub Total ER</b>	<b>2209</b>	<b>2456</b>			<b>60.31</b>	<b>3.67</b>	<b>56.63</b>
+/- 800 KV BiswanathCharialli-Agra	666	678	678	0.00	15.48	0.00	15.48
<b>Sub Total NER</b>	<b>666</b>	<b>678</b>			<b>15.48</b>	<b>0.00</b>	<b>15.48</b>
<b>Total IR Exch</b>	<b>9166</b>	<b>9582</b>			<b>223.12</b>	<b>5.81</b>	<b>217.31</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
49.13	3.74	52.87	25.75	13.74	12.10	2.94	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
90.73	135.23	225.96	72.11	145.19	217.31	-18.61	9.96	-8.66

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	-25	-17	0	25	0	0	-0.36

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	0.00	3.25	55.91	80.60	14.34	1.84	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)		
50.19	6.03	49.82	2.17	49.99	0.030	.0.054	50.17	50.00	19.40

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	406	2:50	400	22:59	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	7:51	400	0:22	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	8:01	399	0:24	0.0	0.0	0.0	0.0	0.0
Kanpur	400	415	7:57	400	0:23	0.0	0.0	0.0	0.0	0.0
Dadri	400	410	6:02	397	0:22	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	418	6:04	401	11:33	0.0	0.0	0.0	0.0	0.0
Bawana	400	415	6:02	400	11:36	0.0	0.0	0.0	0.0	0.0
Bassi	400	417	18:01	396	10:38	0.0	0.0	0.0	0.0	0.0
Hissar	400	411	6:03	394	11:43	0.0	0.0	0.0	0.0	0.0
Moga	400	414	6:02	400	11:35	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	419	6:04	403	11:32	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	419	6:05	400	11:46	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	4:13	400	19:16	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	4:02	385	19:24	0.0	20.8	0.0	0.0	0.0
Amritsar	400	416	3:24	400	11:26	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	412	3:57	403	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	412	8:01	391	10:10	0.0	0.0	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	783	8:01	755	12:19	0.0	0.0	0.0	0.0	0.0
Balia	765	787	8:01	756	0:22	0.0	0.0	0.0	0.0	0.0
Moga	765	803	6:02	775	11:38	0.0	0.0	0.7	0.0	0.7
Agra	765	789	6:03	761	12:18	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	795	6:03	768	11:35	0.0	0.0	0.0	0.0	0.0
Unnao	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Lucknow	765	794	8:01	757	0:22	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	8:01	767	11:40	0.0	0.0	-0.0	0.0	0.0
Jhatikara	765	792	6:03	762	12:20	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	798	8:01	760	0:22	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	796	18:02	764	0:00	0.0	0.0	0.0	0.0	0.0

Note : '0' in Max / Min Col -> Telemetry Outage

**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	503.06	1219.07	511.30	1605.30	785.17	643.44
Pong	426.72	384.05	417.95	794.52	421.81	975.89	337.28	486.14
Tehri	829.79	740.04	824.50	1097.37	821.10	1023.38	265.21	163.00
Koteshwar	612.50	598.50	608.68	3.98	610.83	5.00	163.00	156.34
Chamera-I	760.00	748.75	753.08	0.00	0.00	0.00	187.93	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	520.83	7.19	513.34	9.82	186.19	283.17

\* 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	901	0	0	628	840	0	21.89	15.07	36.96
Delhi	588	-405	0	524	-243	0	14.26	-8.28	5.97
Haryana	1695	346	13	1555	319	13	37.52	5.75	43.27
HP	-854	-446	0	-550	-931	0	-16.54	-13.31	-29.84
J&K	-548	-115	0	-548	85	0	-13.74	0.69	-13.05
CHD	0	0	0	0	-20	0	0.36	-0.02	0.33
Rajasthan	-129	542	5	-129	531	5	-3.08	13.03	9.94
UP	655	719	0	406	244	0	11.01	9.60	20.60
Uttarakhand	-183	277	0	-183	147	0	-4.39	4.58	0.20
<b>Total</b>	<b>2125</b>	<b>919</b>	<b>18</b>	<b>1703</b>	<b>972</b>	<b>18</b>	<b>47.29</b>	<b>27.10</b>	<b>74.38</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1072	588	1190	0	0	0
Delhi	658	423	137	-766	0	0
Haryana	1935	1265	392	-142	14	13
HP	-550	-915	-321	-1101	0	0
J&K	-548	-618	85	-115	0	0
CHD	44	0	20	-20	0	0
Rajasthan	-129	-129	561	524	5	5
UP	843	227	1005	0	0	0
Uttarakhand	-183	-183	312	9	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	19.79%
ER	0.00%
Simultaneous	6.94%

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

WR	71.18%
ER	0.00%
Simultaneous	61.81%

(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 13.09.2016 :**  
Bad Weather in J&k during night hours 13-09-2016

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

**XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**  
500 MVA New ICT-2 first time charged (after upgradation from 315 MVA) at 18.14 hrs today on no load at Ballabgarh (PG)

**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.