

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 25.09.2016

Date of Reporting : 26.09.2016



### 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
45897	528	46425	50.13	44150	270	44420	50.14	1024.8	10.98

\* 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:

UI [OD:(+ve), UD: (-ve)]

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	81.07	16.22		97.29	86.30	87.30	1.00	184.59	0.00
Haryana	48.25	0.96		49.21	112.16	109.05	-3.11	158.26	0.00
Rajasthan	122.20	1.47	11.10	134.77	60.51	61.18	0.67	195.95	0.00
Delhi	17.06			17.06	76.78	76.00	-0.78	93.06	0.02
UP	154.22	22.26		176.48	118.01	117.23	-0.78	293.70	3.02
Uttarakhand	17.55			23.04	10.92	11.84	0.92	34.88	0.00
HP	19.49			19.49	6.50	8.81	2.31	28.30	0.00
J & K	19.13		0.00	19.13	15.75	12.65	-3.10	31.78	7.95
Chandigarh				0.00	4.60	4.31	-0.29	4.31	0.00
<b>Total</b>	<b>422.80</b>	<b>97.08</b>	<b>11.10</b>	<b>536.47</b>	<b>491.52</b>	<b>488.36</b>	<b>-3.16</b>	<b>1024.83</b>	<b>10.98</b>

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

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

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	8222	0	49	104	6882	0	196	608	8222	20:00	0
Haryana	7662	0	-236	1150	6953	0	252	1779	7662	20:00	0
Rajasthan	8176	0	29	293	8783	0	79	305	9174	24:00	0
Delhi	4187	0	-92	133	4088	0	186	-15	4716	24:00	0
UP	13017	90	-87	329	13925	0	244	1705	14512	1:00	0
Uttarakhand	1577	0	-78	-250	1420	0	79	-117	1691	19:00	0
HP	1090	0	40	-991	853	0	106	-647	1142	8:00	0
J&K	1751	438	-7	-588	1081	270	-58	-643	1751	20:00	438
Chandigarh	216	0	-28	0	166	0	33	0	216	20:00	0
<b>Total</b>	<b>45897</b>	<b>528</b>	<b>-410</b>	<b>180</b>	<b>44150</b>	<b>270</b>	<b>1116</b>	<b>2974</b>	<b>46461</b>	<b>1:00</b>	<b>289</b>

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

Diversity is 1.06

UI [OD:(+ve), UD: (-ve)]

### III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1824	1981	1926	42.79	1783	42.74	0.05
Rihand I STPS (2*500)	1000	943	1009	998	21.49	895	22.07	-0.59
Rihand II STPS (2*500)	1000	939	928	979	20.62	859	21.61	-0.99
Rihand III STPS (2*500)	1000	953	972	1028	21.39	891	22.16	-0.78
Dadri I STPS (4*210)	840	815	701	680	14.11	588	14.55	-0.45
Dadri II STPS (2*490)	980	970	935	776	18.95	790	19.86	-0.91
Unchahar I TPS (2*210)	420	150	140	158	3.20	133	3.49	-0.29
Unchahar II TPS (2*210)	420	400	343	393	7.77	324	8.88	-1.10
Unchahar III TPS (1*210)	210	200	139	153	3.40	142	4.40	-1.00
ISTPP (Jhajjar) (3*500)	1500	1425	670	625	14.35	598	14.61	-0.26
Dadri GPS (4*130.19+2*154.51)	830	787	351	318	8.48	353	9.04	-0.56
Anta GPS (3*88.71+1*153.2)	419	393	241	231	5.77	240	5.90	-0.13
Auraiya GPS (4*111.19+2*109.30)	663	623	0	0	0.00	0	0.02	-0.02
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	0.03	1	0.06	-0.03
KHEP(4*200)	800	858	858	639	7.02	292	7.00	0.02
<b>Sub Total (A)</b>	<b>12112</b>	<b>11285</b>	<b>9268</b>	<b>8904</b>	<b>189</b>	<b>7892</b>	<b>196</b>	<b>-7.05</b>
<b>B. NPC</b>								
NAPS (2*220)	440	193	214	214	4.60	192	4.63	-0.04
RAPS- B (2*220)	440	370	413	420	9.14	381	8.88	0.26
RAPS- C (2*220)	440	0	0	0	-0.24	-10	0.00	-0.24
<b>Sub Total (B)</b>	<b>1320</b>	<b>563</b>	<b>627</b>	<b>634</b>	<b>13.50</b>	<b>562</b>	<b>13.51</b>	<b>-0.02</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	540	549	0	3.65	152	3.50	0.15
Chamera II HPS (3*100)	300	301	308	102	3.75	156	3.60	0.15
Chamera III HPS (3*77)	231	221	226	76	2.32	97	2.25	0.07
Bairasuli HPS(3*60)	180	179	174	0	1.48	62	1.46	0.02
Salal-HPS (6*115)	690	500	674	534	12.69	529	12.00	0.69
Tanakpur-HPS (3*31.4)	94	81	79	84	2.04	85	1.95	0.09
Uri-I HPS (4*120)	480	213	340	210	5.33	222	5.10	0.23
Uri-II HPS (4*60)	240	119	84	122	2.94	122	2.85	0.08
Dhauliganga-HPS (4*70)	280	280	272	71	3.31	138	3.28	0.04
Dulhasti-HPS (3*130)	390	383	386	388	9.24	385	9.18	0.05
Sewa-II HPS (3*40)	120	119	35	0	0.53	22	0.50	0.03
Parbati 3 (4*130)	520	520	388	0	1.63	68	1.56	0.07
<b>Sub Total (C)</b>	<b>4065</b>	<b>3456</b>	<b>3516</b>	<b>1588</b>	<b>49</b>	<b>2038</b>	<b>47</b>	<b>1.67</b>
<b>D.SJVNL</b>								
NJPC (6*250)	1500	1605	1582	498	21.97	916	22.00	-0.03
Rampur HEP (6*88.67)	412	442	437	146	6.29	262	6.13	0.16
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2019</b>	<b>644</b>	<b>28.27</b>	<b>1178</b>	<b>28.13</b>	<b>0.13</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	1071	1048	0	8.34	347	8.21	0.13
Koteshwar HPS (4*100)	400	117	183	91	2.84	119	2.82	0.03
<b>Sub Total (E)</b>	<b>1400</b>	<b>1189</b>	<b>1231</b>	<b>91</b>	<b>11.18</b>	<b>466</b>	<b>11.03</b>	<b>0.16</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	838	1335	667	20.36	848	20.11	0.24
Dehar HPS (6*165)	990	453	660	430	11.07	461	10.87	0.20
Pong HPS (6*66)	396	306	396	198	7.37	307	7.35	0.03
<b>Sub Total (F)</b>	<b>2765</b>	<b>1597</b>	<b>2391</b>	<b>1295</b>	<b>38.80</b>	<b>1617</b>	<b>38.33</b>	<b>0.47</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	53	65	1.61	67	1.58	0.03
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	850	500	12.76	532	12.46	0.30
Malana Stg-II HPS (2*50)	100	0	30	30	0.98	41	0.93	0.05
Shree Cement TPS (2*150)	300	0	181	288	4.23	176	4.76	-0.53
Budhil HPS(IPP) (2*35)	70	0	35	35	0.73	30	0.95	-0.22
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1149</b>	<b>918</b>	<b>20.31</b>	<b>846</b>	<b>20.67</b>	<b>-0.36</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20137</b>	<b>20201</b>	<b>14074</b>	<b>350.37</b>	<b>14599</b>	<b>355.36</b>	<b>-4.99</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	1050	850	20.46	852	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	90	2.17	91	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	466	397	9.26	386	
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1	
	Rajpura (2*700)	1400	1320	1120	30.29	1262	
	Talwandi Saboo (3*660)	1980	700	616	18.91	788	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3656</b>	<b>3073</b>	<b>81.07</b>	<b>3378</b>	
	Total Hydro	1000	749	565	16.22	676	
	Wind Power	0	0	0	0.00	0	
	Biomass	73	0	0	0.00	0	
	Solar	494	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>567</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
	<b>Total Punjab</b>	<b>8127</b>	<b>4405</b>	<b>3638</b>	<b>97.29</b>	<b>4054</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	636	378	12.16	507
		DCRTPP (Yamuna nagar) (2*300)	600	541	463	11.57	482
Faridabad GPS (NTPC)(2*137.75+1*156)		432	175	157	3.94	164	
RGTPP (khedar) (IPP) (2*600)		1200	1089	764	20.58	857	
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>2441</b>	<b>1762</b>	<b>48.25</b>	<b>2011</b>	
Total Hydro		62	41	40	0.96	40	
Wind Power		0	0	0	0.00	0	
Biomass		40	0	0	0.00	0	
Solar		0	0	0	0.00	0	
<b>Renewable(Total)</b>		<b>40</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
<b>Total Haryana</b>		<b>4599</b>	<b>2482</b>	<b>1802</b>	<b>49.21</b>	<b>2051</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	848	860	20.69	862
		suratgarh TPS (6*250)	1500	947	947	22.03	918
	Chabra TPS (4*250)	1000	738	552	16.16	673	
	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	139	139	2.65	110	
	RAPS A (NPC) (1*100+1*200)	300	167	166	4.15	173	
	Barsingsar (NLC) (2*125)	250	112	223	4.32	180	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	515	698	15.06	628	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	403	409	10.58	441	
	Kawai(Adani) (2*660)	1320	1056	1223	26.55	1106	
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4925</b>	<b>5217</b>	<b>122.20</b>	<b>5092</b>	
	Total Hydro	550	25	95	1.47	61	
	Wind power	4017	138	932	10.13	422	
	Biomass	99	21	21	0.49	21	
	Solar	1295	2	0	0.48	20	
	Renewable/Others (Total)	5411	161	953	11.10	463	
	<b>Total Rajasthan</b>	<b>14837</b>	<b>5111</b>	<b>6265</b>	<b>134.77</b>	<b>5616</b>	
UP	Anpara TPS (3*210+2*500)	1630	728	958	23.93	997	
	Obra TPS (2*50+2*94+5*200)	1194	293	326	7.30	304	
	Paricha TPS (2*110+2*220+2*250)	1160	931	920	21.20	883	
	Panki TPS (2*105)	210	149	153	3.60	150	
	Harduaganj TPS (1*60+1*105+2*250)	665	514	506	11.30	471	
	Tanda TPS (NTPC) (4*110)	440	350	352	8.28	345	
	Roza TPS (IPP) (4*300)	1200	1089	1094	26.17	1090	
	Anpara-C (IPP) (2*600)	1200	837	482	14.20	592	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	365	405	8.48	353	
	Anpara-D(2*500)	1000	456	446	9.25	386	
	Lalitpur TPS(3*660)	1980	447	479	10.08	420	
	Bara(2*660)	1320	383	383	9.23	384	
	<b>Thermal (Total)</b>	<b>12449</b>	<b>6542</b>	<b>6504</b>	<b>153.02</b>	<b>6376</b>	
	Vishnuparyag HPS (IPP)(4*110)	440	395	405	9.00	375	
	Alaknada(4*82.5)	330	311	253	5.59	233	
	Other Hydro	527	349	330	7.67	320	
	Cogeneration	981	50	50	1.20	50	
	Wind Power	0	0	0	0.00	0	
	Biomass	26	0	0	0.00	0	
	Solar	102	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
	<b>Total UP</b>	<b>14855</b>	<b>7647</b>	<b>7542</b>	<b>176.48</b>	<b>7353</b>	
	Uttarakhand	Other Hydro	1250	785	726	17.55	731
Total Gas		225	224	230	5	228	
Wind Power		0	0	0	0.00	0	
Biomass		100	0	0	0.00	0	
Solar		20	0	0	0.00	0	
Small Hydro (< 25 MW)		150	0	0	0.00	0	
<b>Renewable(Total)</b>		<b>270</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
<b>Total Uttarakhand</b>		<b>1745</b>	<b>1009</b>	<b>956</b>	<b>23.04</b>	<b>960</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	73	71	1.85	77	
	Pragati Gas Turbine (2x104+ 1x122)	330	149	150	3.64	152	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	253	253	6.09	254	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	5.50	229	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>805</b>	<b>804</b>	<b>17.06</b>	<b>711</b>	
	Wind Power	0	0	0	0.00	0	
	Biomass	16	0	0	0.00	0	
	Solar	2	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
<b>Total Delhi</b>	<b>2935</b>	<b>805</b>	<b>804</b>	<b>17.06</b>	<b>711</b>		

HP	Baspa HPS (IPP) (3*100)	300	150	251	4.55	190
	Malana HPS (IPP) (2*43)	86	31	36	0.89	37
	Other Hydro	878	376	422	9.03	376
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)		214	201	5.02	209
	Renewable(Total)	0	214	201	5.02	209
	Total HP	1264	771	910	19.49	812
	J & K	Baglihar HPS (IPP) (3*150+2*150)	750	585	732	16.36
Other Hydro/IPP		560	137	93	2.77	115
Gas/Diesel/Others		190	0	0	0.00	0
Wind Power		0	0	0	0.00	0
Biomass		0	0	0	0.00	0
Solar		0	0	0	0.00	0
Small Hydro (< 25 MW)			0	0	0.00	0
Renewable(Total)		0	0	0	0.00	0
Total J & K		1500	722	825	19.13	797
Total State Control Area Generation		49862	22952	22742	536.47	22353
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5455	9069	155.33	6472	
Total Regional Availability(Gross)	75099	48608	45885	1042.17	43424	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	10949	4852	149.53	6230
State Control Area Hydro	7228	4372	4379	97.08	4273
Total Regional Hydro	19462	15321	9231	246.61	10504

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.08	3
State Control Area Renewable	6434	375	1154	16.12	672
Total Regional Renewable	6464	375	1154	16.20	675

VI(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	
Vindhychall(HVDC B/B)	-500	-200	50	500	0.03	7.29	-7.26
765 KV Gwalior-Agra (D/C)	1735	2460	2495	0	46.39	0.00	46.39
400 KV Zerda-Kankroli	91	-17	141	17	1.47	0.00	1.47
400 KV Zerda-Bhinmal	149	20	232	5	3.04	0.00	3.04
220 KV Auraiya-Malanpur	-84	-51	0	109	0.00	1.60	-1.60
220 KV Badod-Kota/Morak	64	31	60	34	1.05	0.00	1.05
Mundra-Mohindergerh(HVDC Bipole)	801	2098	2105	0.00	18.64	0.00	18.64
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	879	1138	575	0	22.12	0.00	22.12
<b>Sub Total WR</b>	<b>3135</b>	<b>5479</b>			<b>92.74</b>	<b>8.89</b>	<b>83.85</b>
Pusauli Bypass/HVDC	0	0	0	0	0.00	0.00	0.00
400 KV MZP- GKP (D/C)	81	550	560	0	9.21	0.00	9.21
400 KV Patna-Balia(D/C) X 2	328	426	473	0	9.39	0.00	9.39
400 KV B Sharif-Balia (D/C)	46	233	246	0	3.99	0.00	3.99
765 KV Gaya-Balia	211	350	350	0	3.04	0.00	3.04
765 KV Gaya-Varanasi (D/C)	346	656	656	0	12.60	0.00	12.60
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-28	-24	0	34	0.00	0.49	-0.49
132 KV Son Ngr-Rihand	-23	-12	0	36	0.00	0.42	-0.42
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	86	-61	-141	100	1.04	0.00	1.04
400 KV Barh -GKP (D/C)	314	364	588	0	7.15	0.00	7.15
400 kV B Sharif - Varanasi (D/C)	-8	154	219	8	3.07	0.00	3.07
<b>Sub Total ER</b>	<b>1353</b>	<b>2636</b>			<b>49.49</b>	<b>0.91</b>	<b>48.58</b>
+/- 800 KV BiswanathChariali-Agra	967	954	971	0.00	22.90	0.00	22.90
<b>Sub Total NER</b>	<b>967</b>	<b>954</b>			<b>22.90</b>	<b>0.00</b>	<b>22.90</b>
<b>Total IR Exch</b>	<b>5455</b>	<b>9069</b>			<b>165.13</b>	<b>9.80</b>	<b>155.33</b>

VI(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
48.63	3.74	52.38	13.41	3.22	1.33	-0.06	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
67.13	100.52	167.65	71.48	83.85	155.33	4.35	-16.68	-12.32

VI(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	-24	0	0	27	0	0	-0.29

VII. 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	1.22	33.77	73.18	20.22	5.23	0.27	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time						
50.22	6.04	49.85	20.50	50.02	0.031	0.052	50.25	50.03	26.82

## VIII(A). 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	6:07	400	18:53	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	424	6:02	408	23:07	0.0	0.0	9.8	0.0	9.8
Bareilly(PG)400kV	400	420	6:04	400	12:37	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	6:03	403	12:37	0.0	0.0	0.0	0.0	0.0
Dadri	400	417	6:10	401	19:07	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	422	6:04	406	12:35	0.0	0.0	0.7	0.0	0.7
Bawana	400	421	6:05	404	19:06	0.0	0.0	1.6	0.0	1.6
Bassi	400	423	17:06	403	23:17	0.0	0.0	1.8	0.0	1.8
Hissar	400	415	6:04	399	19:07	0.0	0.0	0.0	0.0	0.0
Moga	400	416	6:08	401	19:10	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	424	6:05	407	19:09	0.0	0.0	6.4	0.0	6.4
Nalagarh	400	426	6:06	412	19:09	0.0	0.0	33.7	0.0	33.7
Kishenpur	400	420	2:57	403	19:08	0.0	0.0	0.0	0.0	0.0
Wagoora	400	415	3:00	375	19:28	5.2	21.9	0.0	0.0	5.2
Amritsar	400	424	3:21	409	18:53	0.0	0.0	16.2	0.0	16.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	6:22	408	19:29	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	417	6:14	396	12:37	0.0	0.0	0.0	0.0	0.0

## VIII(B). 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	770	6:07	745	12:39	0.0	0.0	0.0	0.0	0.0
Balia	765	793	6:04	768	12:35	0.0	0.0	0.0	0.0	0.0
Moga	765	796	6:04	768	19:09	0.0	0.0	0.0	0.0	0.0
Agra	765	793	6:05	762	23:18	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	799	6:04	771	19:11	0.0	0.0	0.0	0.0	0.0
Unnao	765	771	6:06	746	12:37	0.0	0.0	0.0	0.0	0.0
Lucknow	765	797	6:06	765	12:37	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	6:06	778	12:35	0.0	0.0	5.0	0.0	5.0
Jhatikara	765	800	6:06	770	19:09	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	799	6:06	757	12:37	0.0	0.0	0.0	0.0	0.0
Anta	765	791	17:04	772	19:09	0.0	0.0	0.0	0.0	0.0
Phagi	765	795	17:04	767	19:09	0.0	0.0	0.0	0.0	0.0

Note : '0' in Max / Min Col -&gt; 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	503.02	1219.07	511.69	1635.65	513.19	609.35
Pong	426.72	384.05	416.95	755.83	421.24	946.20	166.64	441.91
Tehri	829.79	740.04	824.70	1107.95	822.80	1061.00	163.51	180.00
Kotesshwar	612.50	598.50	609.83	4.44	608.07	3.76	180.00	187.39
Chamera-I	760.00	748.75	755.15	0.00	0.00	0.00	126.95	98.80
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	518.94	5.66	513.93	4.42	108.68	233.58

\* 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	608	0	0	30	74	0	8.85	0.36	9.21
Delhi	641	-656	0	361	-228	0	12.45	-9.69	2.77
Haryana	1543	236	0	942	208	0	25.45	5.51	30.95
HP	-477	-170	0	-557	-434	0	-10.74	-6.39	-17.14
J&K	-578	-65	0	-573	-15	0	-14.51	1.02	-13.50
CHD	0	0	0	0	0	0	0.35	-0.19	0.17
Rajasthan	-139	444	0	-154	447	0	-3.54	11.26	7.73
UP	872	833	0	329	0	0	9.60	4.99	14.58
Uttarakhand	-236	119	0	-363	114	0	-6.39	1.78	-4.62
Total	2233	741	0	14	166	0	21.52	8.64	30.16

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	740	30	74	0	0	0
Delhi	729	361	26	-729	0	0
Haryana	1773	819	271	189	0	0
HP	-281	-659	-97	-577	0	0
J&K	-573	-674	198	-116	0	0
CHD	44	0	0	-60	0	0
Rajasthan	-139	-154	757	383	0	0
UP	877	158	929	-78	0	0
Uttarakhand	-236	-468	182	4	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	0.69%

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

WR	0.69%
ER	0.00%
Simultaneous	25.69%

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

Rihand - Dadri	0.00%
----------------	-------

**XII Number of times of Non Compliance of Sign Change in UI in consecutive 12 blocks in the day(1 block = 15 min)**

Punjab	10
Haryana	22
Rajasthan	13
Delhi	27
UP	1
Uttarakhand	14
HP	37
J & K	15
Chandigarh	17

**XIII. System Constraints:**

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 25.09.2016 :  
Normal

XVI. Synchronisation of new generating units :

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

XVIII. Tripping of lines in pooling stations :

XIX. 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.