

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वाभिमूर्ति प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 29.06.2016  
Date of Reporting : 30.06.2016



### 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
50208	1654	51862	50.08	47880	410	48290	50.03	1170.9	11.56

\*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	90.82	15.49		106.31	122.62	123.62	1.00	229.93	0.00
Haryana	61.57	0.88		62.46	125.33	122.85	-2.48	185.30	0.02
Rajasthan	125.33	0.15	5.11	130.60	59.81	60.11	0.29	190.70	0.00
Delhi	23.55			23.55	96.85	96.63	-0.22	120.18	0.47
UP	156.36	18.90		175.26	156.35	158.36	2.01	333.62	2.12
Uttarakhand		20.21		20.21	20.84	21.80	0.96	42.01	0.42
HP		20.48		20.48	5.73	8.06	2.33	28.54	0.06
J & K		17.58	0.00	17.58	19.66	16.31	-3.35	33.89	8.47
Chandigarh				0.00	6.27	6.67	0.27	6.67	0.00
<b>Total</b>	<b>457.63</b>	<b>93.70</b>	<b>5.11</b>	<b>556.45</b>	<b>613.46</b>	<b>614.41</b>	<b>0.81</b>	<b>1170.85</b>	<b>11.56</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	9769	0	-212	2246	8628	0	-151	1733	10324	16:00	0
Haryana	8394	14	-232	1120	7488	0	-247	1590	8444	21:00	55
Rajasthan	7573	0	-256	68	7741	0	30	74	8743	24:00	0
Delhi	5055	0	-60	428	4879	4	61	449	5959	16:00	3
UP	14270	1110	149	1213	14540	0	-104	1266	15133	2:00	1060
Uttarakhand	1877	75	-87	256	1732	0	15	103	1930	21:00	75
HP	1154	0	49	-1322	1018	0	56	-1495	1330	10:00	0
J&K	1819	455	-53	-512	1622	406	183	-547	1819	20:00	455
Chandigarh	297	0	14	0	232	0	-2	15	343	15:00	0
<b>Total</b>	<b>50208</b>	<b>1654</b>	<b>-689</b>	<b>3499</b>	<b>47880</b>	<b>410</b>	<b>-158</b>	<b>3187</b>	<b>51795</b>	<b>15:00</b>	<b>1285</b>

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

Diversity is: 1.04

### 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	2058	2054	45.57	1899	45.09		0.47
Rihand I STPS (2*500)	1000	464	510	499	11.05	460	10.97		0.07
Rihand II STPS (2*500)	1000	946	1023	980	22.35	931	22.06		0.29
Rihand III STPS (2*500)	1000	943	991	980	21.59	900	21.84		-0.25
Dadri I STPS (4*210)	840	805	329	275	7.87	328	8.01		-0.14
Dadri II STPS (2*490)	980	960	786	657	18.69	779	19.06		-0.38
Unchahar I TPS (2*210)	420	343	363	315	6.93	289	7.48		-0.55
Unchahar II TPS (2*210)	420	400	436	264	7.48	312	8.15		-0.67
Unchahar III TPS (1*210)	210	200	222	139	3.71	155	4.08		-0.37
ISTPP (Jhajjar) (3*500)	1500	1425	1241	933	25.05	1044	25.70		-0.66
Dadri GPS (4*130.19+2*154.51)	830	794	183	172	4.17	174	4.28		-0.12
Anta GPS (3*88.71+1*153.2)	419	398	0	0	0.00	0	0.01		-0.01
Auraiya GPS (4*111.19+2*109.30)	663	631	0	0	0.00	0	0.00		0.00
Dadri Solar(5)	5	1	0	0	0.03	1	0.02		0.00
Unchahar Solar(10)	10	2	0	0	0.06	2	0.05		0.01
Singrauli Solar(15)	15	3	0	0	0.08	3	0.08		0.01
KHEP(4*200)	800	853	852	849	20.68	862	20.52		0.16
<b>Sub Total (A)</b>	<b>12112</b>	<b>11059</b>	<b>8994</b>	<b>8117</b>	<b>195</b>	<b>8137</b>	<b>197</b>		<b>-2.12</b>
<b>B. NPC</b>									
NAPS (2*220)	440	378	410	417	8.99	375	9.07		-0.08
RAPS- B (2*220)	440	365	409	413	8.74	364	8.76		-0.02
RAPS- C (2*220)	440	410	430	430	9.19	383	9.84		-0.65
<b>Sub Total (B)</b>	<b>1320</b>	<b>1153</b>	<b>1249</b>	<b>1260</b>	<b>26.91</b>	<b>1121</b>	<b>27.67</b>		<b>-0.76</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	540	547	545	8.92	372	8.80		0.12
Chamera II HPS (3*100)	300	301	308	304	7.30	304	7.22		0.08
Chamera III HPS (3*77)	231	231	232	234	5.56	232	5.54		0.02
Bairasuli HPS(3*60)	180	180	184	61	2.20	92	2.13		0.08
Salal-HPS (6*115)	690	662	676	676	16.29	679	15.88		0.40
Tanakpur-HPS (3*31.4)	94	75	78	89	1.98	82	1.79		0.19
Uri-I HPS (4*120)	480	470	460	477	11.30	471	11.27		0.03
Uri-II HPS (4*60)	240	237	239	239	5.69	237	5.69		0.00
Dhauliganga-HPS (4*70)	280	280	285	287	6.73	280	6.72		0.01
Dulhasti-HPS (3*130)	390	274	397	270	6.74	281	6.65		0.09
Sewa-II HPS (3*40)	120	119	131	0	0.42	18	0.40		0.02
Parbati 3 (4*130)	520	390	391	0	3.82	159	3.76		0.06
<b>Sub Total (C)</b>	<b>4065</b>	<b>3759</b>	<b>3927</b>	<b>3181</b>	<b>77</b>	<b>3206</b>	<b>76</b>		<b>1.09</b>
<b>D. SJVNL</b>									
NJPC (6*250)	1500	1605	1628	1620	38.52	1605	38.52		0.00
Rampur HEP (6*68.67)	412	442	452	452	10.80	450	10.61		0.19
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2080</b>	<b>2072</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	596	602	252	7.12	297	7.00		0.12
Koteshwar HPS (4*100)	400	146	390	92	3.52	147	3.50		0.02
<b>Sub Total (E)</b>	<b>1400</b>	<b>742</b>	<b>992</b>	<b>344</b>	<b>10.64</b>	<b>443</b>	<b>10.50</b>		<b>0.14</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	1021	1304	902	24.67	1028	24.51		0.16
Dehar HPS (6*165)	990	613	660	560	14.89	621	14.70		0.19
Pong HPS (6*66)	396	71	144	48	1.65	69	1.69		-0.04
<b>Sub Total (F)</b>	<b>2765</b>	<b>1704</b>	<b>2108</b>	<b>1510</b>	<b>41.21</b>	<b>1717</b>	<b>40.90</b>		<b>0.31</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	229	197	4.06	169	4.42		-0.36
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.26	1094	26.13		0.13
Malana Stg-II HPS (2*50)	100	0	113	101	2.47	103	2.29		0.18
Shree Cement TPS (2*150)	300	0	296	274	6.64	277	6.70		-0.06
Budhil HPS(IPP) (2*35)	70	0	38	38	0.89	37	0.90		0.00
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1776</b>	<b>1709</b>	<b>40.32</b>	<b>1680</b>	<b>40.43</b>		<b>-0.11</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20463</b>	<b>21126</b>	<b>18194</b>	<b>440.65</b>	<b>18360</b>	<b>441.90</b>		<b>-1.25</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	870	860	20.98	874	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	210	190	4.28	178	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	582	576	13.48	562	
	Goindwal(GVK) (2*270)	540	0	0	-0.04	-2	
	Rajpura (2*700)	1400	1320	1120	30.29	1262	
	Talwandi Saboo (3*660)	1980	1160	760	21.83	909	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>4142</b>	<b>3506</b>	<b>90.82</b>	<b>3784</b>	
	Total Hydro	1000	656	665	15.49	646	
	<b>Total Punjab</b>	<b>7560</b>	<b>4798</b>	<b>4171</b>	<b>106.31</b>	<b>4430</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	826	748	17.92	747
DCRTPP (Yamuna nagar) (2*300)		600	274	240	5.91	246	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	174	191	4.25	177	
RGTPP (khedar) (IPP) (2*600)		1200	574	375	11.43	476	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1191	759	22.06	919	
<b>Thermal (Total)</b>		<b>4497</b>	<b>3039</b>	<b>2313</b>	<b>61.57</b>	<b>2566</b>	
Total Hydro		62	35	36	0.88	37	
<b>Total Haryana</b>		<b>4559</b>	<b>3074</b>	<b>2349</b>	<b>62.46</b>	<b>2602</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1001	987	24.00	1000
	suratgarh TPS (6*250)	1500	752	754	18.64	777	
	Chabra TPS (4*250)	1000	637	565	14.66	611	
	Dholpur GPS (3*110)	330	86	85	2.15	90	
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	149	71	2.84	118	
	RAPS A (NPC) (1*100+1*200)	300	138	138	3.43	143	
	Barsingsar (NLC) (2*125)	250	192	189	4.43	185	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	760	699	17.48	728	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	407	484	11.13	464	
	Kawai(Adani) (2*660)	1320	1008	1125	26.57	1107	
	<b>Thermal (Total)</b>	<b>8876</b>	<b>5130</b>	<b>5097</b>	<b>125</b>	<b>5222</b>	
	Total Hydro	550	0	29	0.15	6	
	Wind power	3214	53	31	2.95	123	
	Biomass	99	19	19	0.45	19	
	Solar	730	0	0	1.71	71	
	Renewable/Others (Total)	4043	72	50	5.11	213	
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5202</b>	<b>5176</b>	<b>130.60</b>	<b>5441</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1328	1368	32.20	1342
Obra TPS (2*50+2*94+5*200)		1194	441	277	8.50	354	
Paricha TPS (2*110+2*220+2*250)		1160	659	947	18.60	775	
Panki TPS (2*105)		210	13	131	3.20	133	
Harduaganj TPS (1*60+1*105+2*250)		665	544	440	11.70	488	
Tanda TPS (NTPC) (4*110)		440	387	364	8.36	348	
Roza TPS (IPP) (4*300)		1200	1111	1098	22.90	954	
Anpara-C (IPP) (2*600)		1200	1053	1053	25.10	1046	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	324	324	6.70	279	
Anpara-D(2*500)		1000	358	405	7.20	300	
Lalitpur TPS(3*660)		1980	369	501	9.50	396	
Bara(2*660)		1320	0	0	0.00	0	
<b>Thermal (Total)</b>		<b>12449</b>	<b>6587</b>	<b>6908</b>	<b>154</b>	<b>6415</b>	
Vishnuparyag HPS (IPP)(4*110)		440	0	435	7.90	329	
Alaknanda(4*82.5)		330	342	340	8.10	338	
Other Hydro		527	211	127	2.90	121	
Cogeneration		981	100	100	2.40	100	
<b>Total UP</b>		<b>14727</b>	<b>7240</b>	<b>7910</b>	<b>175</b>	<b>7303</b>	
Uttarakhand		Total Hydro	1398	889	892	20.21	842
		Total Gas	225	0	0	0.00	0
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>889</b>	<b>892</b>	<b>20</b>	<b>842</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	140	136	3.53	147	
	Pragati Gas Turbine (2x104+ 1x122)	330	270	263	6.62	276	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	255	253	6.23	260	
	Badarpur TPS (NTPC) (3*95+2*210)	705	331	323	7.17	299	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>996</b>	<b>975</b>	<b>23.55</b>	<b>981</b>	
	<b>Total Delhi</b>	<b>2917</b>	<b>996</b>	<b>975</b>	<b>23.55</b>	<b>981</b>	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.90	329	
	Malana HPS (IPP) (2*43)	86	104	97	2.19	91	
	Other Hydro	878	433	442	10.39	433	
	<b>Total HP</b>	<b>1264</b>	<b>867</b>	<b>869</b>	<b>20.48</b>	<b>853</b>	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	585	585	14.04	585	
	Other Hydro/IPP	560	150	148	3.54	148	
	Gas/Diesel/Others	190	0	0	0.00	0	
	<b>Total J &amp; K</b>	<b>1500</b>	<b>735</b>	<b>733</b>	<b>17.58</b>	<b>733</b>	
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>23801</b>	<b>23075</b>	<b>556.45</b>	<b>23185</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>6549</b>	<b>7663</b>	<b>202.74</b>	<b>8447</b>	
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>51476</b>	<b>48932</b>	<b>1199.83</b>	<b>49993</b>	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11400	9354	231.58	9649
State Control Area Hydro		7106	3735	4126	94	3904
<b>Total Regional Hydro</b>		<b>19340</b>	<b>15135</b>	<b>13480</b>	<b>325.28</b>	<b>13553</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	250	0	6.02	0.00	6.02
765 KV Gwalior-Agra (D/C)	3106	2838	3262	0	66.35	0.00	66.35
400 KV Zerda-Kankroli	-15	-111	0	297	0.00	2.78	-2.78
400 KV Zerda-Bhinmal	19	-61	62	315	0.00	3.08	-3.08
220 KV Auraiya-Malanpur	40	34	0	25	0.69	0.00	0.69
220 KV Badoi-Kota/Morak	-21	-6	77	86	0.00	0.04	-0.04
Mundra-Mohinderghar(HVDC Bipole)	1102	1801	2506	0.00	44.98	0.00	44.98
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1003	930	1230	0	24.80	0.00	24.80
<b>Sub Total WR</b>	<b>5484</b>	<b>5675</b>			<b>142.84</b>	<b>5.89</b>	<b>136.95</b>
Pusauli Bypass/HVDC	200	200	200	0	4.81	0.00	4.81
400 KV MZP- GKP (D/C)	54	159	451	0	5.31	0.00	5.31
400 KV Patna-Balia(D/C) X 2	557	714	908	0	17.00	0.00	17.00
400 KV B'Sharif-Balia (D/C)	-37	-69	228	0	2.19	0.00	2.19
765 KV Gaya-Balia	-283	-242	303	0	3.22	0.00	3.22
765 KV Gaya-Varanasi (D/C)	-301	-173	420	0	6.02	0.00	6.02
220 KV Pusauli-Sahupuri	179	196	211	0	4.64	0.00	4.64
132 KV K'nasa-Sahupuri	-28	-38	0	38	0.00	0.69	-0.69
132 KV Son Ngr-Rihand	-19	-20	0	26	0.00	0.41	-0.41
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-241	-228	0	241	0.00	3.61	-3.61
400 KV Barh -GKP (D/C)	498	540	608	0	12.23	0.00	12.23
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>579</b>	<b>1039</b>			<b>55.42</b>	<b>4.72</b>	<b>50.70</b>
+/- 800 KV BiswanathCharialli-Agra	486	949	950	0.00	15.09	0.00	15.09
<b>Sub Total NER</b>	<b>486</b>	<b>949</b>			<b>15.09</b>	<b>0.00</b>	<b>15.09</b>
<b>Total IR Exch</b>	<b>6549</b>	<b>7663</b>			<b>213.34</b>	<b>10.61</b>	<b>202.74</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
41.37	2.31	43.69	8.43	25.20	11.38	1.72	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
63.50	131.12	194.62	65.79	136.95	202.74	2.29	5.83	8.12

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	-24	0	30	0	1	-0.61

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	0.27	1.09	7.46	47.25	73.95	16.75	1.89	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)		
50.15	13.04	49.65	19.37	50.00	0.042	0.064	50.18	49.81	26.05

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	404	0:00	399	20:47	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	412	7:06	392	12:10	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	408	7:02	385	12:21	0.0	4.3	0.0	0.0	0.0
Kanpur	400	408	18:45	396	13:47	0.0	0.0	0.0	0.0	0.0
Dadri	400	410	5:03	386	12:09	0.0	8.3	0.0	0.0	0.0
Ballabgarh	400	410	19:00	390	12:13	0.0	0.0	0.0	0.0	0.0
Bawana	400	413	7:03	392	12:10	0.0	0.0	0.0	0.0	0.0
Bassi	400	418	5:00	392	11:19	0.0	0.0	0.0	0.0	0.0
Hissar	400	410	5:01	389	11:16	0.0	0.5	0.0	0.0	0.0
Moga	400	408	4:58	390	11:14	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	408	5:03	388	11:17	0.0	6.3	0.0	0.0	0.0
Nalagarh	400	416	4:50	394	12:09	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	408	5:02	392	14:20	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	5:03	383	20:40	0.0	17.6	0.0	0.0	0.0
Amritsar	400	414	5:01	394	12:11	0.0	0.0	0.0	0.0	0.0
Kashipur	400	415	6:04	403	12:19	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	410	7:16	392	12:18	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	420	6:57	390	14:40	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	773	7:03	738	11:17	0.0	1.9	0.0	0.0	0.0
Balia	765	770	7:03	740	12:13	0.0	1.1	0.0	0.0	0.0
Moga	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Agra	765	784	5:01	742	11:10	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	788	4:59	758	13:53	0.0	0.0	0.0	0.0	0.0
Unnao	765	756	18:46	728	0:22	0.0	40.5	0.0	0.0	0.0
Lucknow	765	780	7:03	743	12:21	0.0	0.0	0.0	0.0	0.0
Meerut	765	794	7:03	749	12:30	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	789	5:02	751	12:10	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Anta	765	784	4:59	754	11:10	0.0	0.0	0.0	0.0	0.0
Phagi	765	790	5:05	748	11:13	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	479.88	454.47	488.36	680.71	1018.47	930.35
Pong	426.72	384.05	391.70	76.21	406.12	370.28	283.48	141.33
Tehri	829.79	740.04	754.15	76.98	749.00	44.52	352.37	247.00
Koteshwar	612.50	598.50	609.78	4.45	610.75	4.95	247.00	232.30
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	244.81	244.81
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	503.18	6.95	522.66	10.21	166.06	340.80

\* 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	1085	648	0	1234	1012	0	26.86	19.24	46.09
Delhi	529	-80	0	548	-120	0	15.16	-1.80	13.36
Haryana	1306	283	0	878	242	0	24.56	6.47	31.04
HP	-1129	-366	0	-876	-446	0	-23.02	-8.88	-31.90
J&K	-622	74	0	-571	60	0	-16.64	-0.40	-17.04
CHD	0	15	0	0	0	0	0.35	0.21	0.56
Rajasthan	-413	487	0	-413	481	0	-9.91	11.26	1.35
UP	1266	0	0	1213	0	0	26.68	0.00	26.68
Uttarakhand	44	59	0	45	211	0	1.05	1.64	2.68
<b>Total</b>	<b>2066</b>	<b>1121</b>	<b>0</b>	<b>2058</b>	<b>1441</b>	<b>0</b>	<b>45.08</b>	<b>27.74</b>	<b>72.82</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1429	651	1439	303	0	0
Delhi	800	430	332	-443	0	0
Haryana	1306	451	322	47	0	0
HP	-873	-1130	-273	-518	0	0
J&K	-571	-874	74	-126	0	0
CHD	44	0	30	0	0	0
Rajasthan	-413	-413	489	208	0	0
UP	1391	724	0	0	0	0
Uttarakhand	45	42	226	3	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	11.81%
ER	0.00%
Simultaneous	19.10%

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

WR	21.88%
ER	0.00%
Simultaneous	36.46%

(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 29.06.2016 :**

**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.