

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वाभिव्यक्ति प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.06.2016  
Date of Reporting : 01.07.2016



### 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
51086	1640	52726	50.08	50481	396	50877	50.03	1207.6	11.38

\*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	95.55	15.17		110.72	122.73	123.56	0.83	234.29	0.00
Haryana	61.26	0.83		62.09	134.80	132.52	-2.29	194.60	0.05
Rajasthan	127.85	0.19	6.25	134.28	61.20	61.78	0.58	196.06	0.00
Delhi	25.40			25.40	104.67	104.13	-0.54	129.53	0.13
UP	166.99	20.77		187.76	155.89	156.99	1.10	344.75	1.88
Uttarakhand		19.01		19.01	20.93	21.86	0.93	40.87	1.05
HP		21.06		21.06	5.90	6.57	0.67	27.63	0.04
J & K		17.58	0.00	17.58	19.46	15.35	-4.11	32.93	8.23
Chandigarh				0.00	6.37	6.99	0.27	6.99	0.00
<b>Total</b>	<b>477.05</b>	<b>94.61</b>	<b>6.25</b>	<b>577.91</b>	<b>631.96</b>	<b>629.73</b>	<b>-2.57</b>	<b>1207.64</b>	<b>11.38</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	9991	0	-190	1995	9044	0	120	1573	10185	21:00	0
Haryana	8440	25	-513	1182	8044	0	120	1282	8665	21:00	86
Rajasthan	7703	0	-357	23	8167	0	157	93	8787	24:00	0
Delhi	5086	20	-272	536	5382	0	217	287	6156	17:00	0
UP	14851	1110	173	1126	15198	0	301	1266	15501	2:00	1060
Uttarakhand	1871	40	129	179	1764	0	34	55	1889	21:00	40
HP	1058	0	14	-1345	1041	0	4	-1484	1306	13:00	0
J&K	1781	445	-50	-510	1585	396	102	-521	1781	20:00	445
Chandigarh	305	0	20	0	255	0	3	0	349	15:00	0
<b>Total</b>	<b>51086</b>	<b>1640</b>	<b>-1046</b>	<b>3187</b>	<b>50481</b>	<b>396</b>	<b>1059</b>	<b>2549</b>	<b>52612</b>	<b>23:00</b>	<b>760</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	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	1890	2065	2066	45.91	1913	45.32	0.58
Rihand I STPS (2*500)	1000	455	512	514	11.13	464	10.79	0.34
Rihand II STPS (2*500)	1000	946	986	1047	22.45	936	22.19	0.27
Rihand III STPS (2*500)	1000	943	1014	999	22.32	930	22.37	-0.05
Dadri I STPS (4*210)	840	805	452	582	12.32	513	12.86	-0.54
Dadri II STPS (2*490)	980	960	687	879	18.84	785	20.07	-1.24
Unchahar I TPS (2*210)	420	350	350	358	7.26	303	7.92	-0.65
Unchahar II TPS (2*210)	420	400	413	392	8.27	345	9.16	-0.89
Unchahar III TPS (1*210)	210	200	208	190	4.17	174	4.52	-0.36
ISTPP (Jhajjar) (3*500)	1500	1425	1213	1207	27.48	1145	28.09	-0.61
Dadri GPS (4*130.19+2*154.51)	830	786	184	170	4.09	171	4.11	-0.02
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	1	0	0	0.03	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.06	2	0.04	0.01
Singrauli Solar(15)	15	3	0	0	0.07	3	0.08	-0.01
KHEP(4*200)	800	855	850	851	20.81	867	20.52	0.29
<b>Sub Total (A)</b>	<b>12112</b>	<b>11052</b>	<b>8934</b>	<b>9255</b>	<b>205</b>	<b>8549</b>	<b>208</b>	<b>-2.88</b>
<b>B. NPC</b>								
NAPS (2*220)	440	380	414	413	9.02	376	9.12	-0.10
RAPS- B (2*220)	440	365	405	412	8.74	364	8.76	-0.03
RAPS- C (2*220)	440	410	423	433	9.18	383	9.84	-0.66
<b>Sub Total (B)</b>	<b>1320</b>	<b>1155</b>	<b>1242</b>	<b>1258</b>	<b>26.94</b>	<b>1122</b>	<b>27.72</b>	<b>-0.78</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	540	550	546	8.66	361	8.50	0.16
Chamera II HPS (3*100)	300	301	310	305	7.28	303	7.22	0.06
Chamera III HPS (3*77)	231	231	236	236	5.61	234	5.54	0.06
Bairasuli HPS(3*60)	180	180	184	60	2.13	89	2.10	0.03
Salal-HPS (6*115)	690	662	679	680	16.29	679	15.88	0.40
Tanakpur-HPS (3*31.4)	94	69	89	82	1.83	76	1.64	0.19
Uri-I HPS (4*120)	480	457	460	460	11.04	460	10.99	0.05
Uri-II HPS (4*60)	240	235	237	239	5.68	237	5.65	0.03
Dhauliganga-HPS (4*70)	280	280	287	281	6.73	281	6.72	0.01
Dulhasti-HPS (3*130)	390	257	272	270	6.38	266	6.25	0.13
Sewa-II HPS (3*40)	120	119	128	0	0.48	20	0.45	0.03
Parbati 3 (4*130)	520	382	392	0	4.06	169	4.08	-0.02
<b>Sub Total (C)</b>	<b>4065</b>	<b>3714</b>	<b>3824</b>	<b>3160</b>	<b>76</b>	<b>3173</b>	<b>75</b>	<b>1.13</b>
<b>D. SJVNL</b>								
NJPC (6*250)	1500	1605	1621	1624	38.50	1604	38.52	-0.02
Rampur HEP (6*68.67)	412	442	450	448	10.80	450	10.61	0.19
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2071</b>	<b>2072</b>	<b>49.30</b>	<b>2054</b>	<b>49.13</b>	<b>0.17</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	600	615	309	8.18	341	8.00	0.18
Koteshwar HPS (4*100)	400	167	399	93	4.02	167	4.00	0.02
<b>Sub Total (E)</b>	<b>1400</b>	<b>767</b>	<b>1014</b>	<b>402</b>	<b>12.19</b>	<b>508</b>	<b>12.00</b>	<b>0.19</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	1027	1293	901	24.80	1033	24.65	0.15
Dehar HPS (6*165)	990	608	660	560	14.74	614	14.58	0.16
Pong HPS (6*66)	396	62	144	0	1.41	59	1.48	-0.07
<b>Sub Total (F)</b>	<b>2765</b>	<b>1696</b>	<b>2097</b>	<b>1461</b>	<b>40.95</b>	<b>1706</b>	<b>40.70</b>	<b>0.25</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	220	191	4.23	176	3.74	0.48
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.17	1091	26.13	0.04
Malana Stg-II HPS (2*50)	100	0	112	112	2.66	111	2.49	0.17
Shree Cement TPS (2*150)	300	0	293	272	6.76	281	6.74	0.02
Budhil HPS(IPP) (2*35)	70	0	38	38	0.90	37	0.90	0.00
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1763</b>	<b>1713</b>	<b>40.72</b>	<b>1697</b>	<b>40.01</b>	<b>0.71</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20431</b>	<b>20945</b>	<b>19321</b>	<b>451.44</b>	<b>18810</b>	<b>452.65</b>	<b>-1.21</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	1260	1050	25.50	1063	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	323	211	6.23	259	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	927	875	19.59	816	
	Goindwal(GVK) (2*270)	540	0	0	-0.04	-2	
	Rajpura (2*700)	1400	1320	1320	31.53	1314	
	Talwandi Saboo (3*660)	1980	480	560	12.75	531	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>4310</b>	<b>4016</b>	<b>95.55</b>	<b>3981</b>	
	Total Hydro	1000	607	635	15.17	632	
	<b>Total Punjab</b>	<b>7560</b>	<b>4917</b>	<b>4651</b>	<b>110.72</b>	<b>4613</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	600	595	13.88	578
DCRTPP (Yamuna nagar) (2*300)		600	270	280	5.34	223	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	173	175	4.24	177	
RGTPP (khedar) (IPP) (2*600)		1200	568	557	13.32	555	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1191	1089	24.48	1020	
<b>Thermal (Total)</b>		<b>4497</b>	<b>2802</b>	<b>2696</b>	<b>61.26</b>	<b>2553</b>	
Total Hydro		62	31	33	0.83	34	
<b>Total Haryana</b>		<b>4559</b>	<b>2833</b>	<b>2729</b>	<b>62.09</b>	<b>2587</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	890	969	22.60	941
	suratgarh TPS (6*250)	1500	695	754	18.64	777	
	Chabra TPS (4*250)	1000	557	642	14.27	595	
	Dholpur GPS (3*110)	330	86	85	2.14	89	
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	144	143	3.53	147	
	RAPS A (NPC) (1*100+1*200)	300	134	139	3.39	141	
	Barsingsar (NLC) (2*125)	250	193	193	4.49	187	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	618	830	19.23	801	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	408	541	11.49	479	
	Kawai(Adani) (2*660)	1320	1037	1201	28.07	1170	
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4762</b>	<b>5497</b>	<b>128</b>	<b>5327</b>	
	Total Hydro	550	0	0	0.19	8	
	Wind power	3214	866	60	5.94	247	
	Biomass	99	13	13	0.31	13	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	879	73	6.25	260	
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5641</b>	<b>5570</b>	<b>134.28</b>	<b>5595</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1374	1347	32.84	1369
Obra TPS (2*50+2*94+5*200)		1194	302	396	8.67	361	
Paricha TPS (2*110+2*220+2*250)		1160	940	946	22.67	945	
Panki TPS (2*105)		210	131	135	3.15	131	
Harduaganj TPS (1*60+1*105+2*250)		665	528	539	12.91	538	
Tanda TPS (NTPC) (4*110)		440	374	370	9.00	375	
Roza TPS (IPP) (4*300)		1200	1083	1098	24.23	1010	
Anpara-C (IPP) (2*600)		1200	1076	1009	25.47	1061	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	275	324	6.94	289	
Anpara-D(2*500)		1000	422	353	8.41	350	
Lalitpur TPS(3*660)		1980	356	511	10.30	429	
Bara(2*660)		1320	0	0	0.00	0	
<b>Thermal (Total)</b>		<b>12449</b>	<b>6861</b>	<b>7028</b>	<b>165</b>	<b>6858</b>	
Vishnuparyag HPS (IPP)(4*110)		440	395	435	10.26	428	
Alaknanda(4*82.5)		330	343	342	7.72	322	
Other Hydro		527	226	255	2.79	116	
Cogeneration		981	100	100	2.40	100	
<b>Total UP</b>		<b>14727</b>	<b>7925</b>	<b>8160</b>	<b>188</b>	<b>7823</b>	
Uttarakhand		Total Hydro	1398	839	867	19.01	792
		Total Gas	225	0	0	0.00	0
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>839</b>	<b>867</b>	<b>19</b>	<b>792</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	158	142	3.89	162	
	Pragati Gas Turbine (2x104+ 1x122)	330	262	263	6.85	285	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	306	253	6.68	278	
	Badarpur TPS (NTPC) (3*95+2*210)	705	324	323	8.01	334	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>1050</b>	<b>981</b>	<b>25.40</b>	<b>1059</b>	
	<b>Total Delhi</b>	<b>2917</b>	<b>1050</b>	<b>981</b>	<b>25.40</b>	<b>1059</b>	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.72	322	
	Malana HPS (IPP) (2*43)	86	103	106	2.51	104	
	Other Hydro	878	443	448	10.84	452	
	<b>Total HP</b>	<b>1264</b>	<b>876</b>	<b>884</b>	<b>21.06</b>	<b>878</b>	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	585	585	14.04	585	
	Other Hydro/IPP	560	159	148	3.54	148	
	Gas/Diesel/Others	190	0	0	0.00	0	
	<b>Total J &amp; K</b>	<b>1500</b>	<b>744</b>	<b>733</b>	<b>17.58</b>	<b>733</b>	
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>24825</b>	<b>24575</b>	<b>577.91</b>	<b>24080</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>9620</b>	<b>8168</b>	<b>208.98</b>	<b>8708</b>	
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>55390</b>	<b>52064</b>	<b>1238.33</b>	<b>51597</b>	
<b>IV. Total Hydro Generation:</b>							
<b>Regional Entities Hydro</b>		<b>12234</b>	<b>11288</b>	<b>9349</b>	<b>232.47</b>	<b>9686</b>	
<b>State Control Area Hydro</b>		<b>7106</b>	<b>4061</b>	<b>4184</b>	<b>95</b>	<b>3942</b>	
<b>Total Regional Hydro</b>		<b>19340</b>	<b>15349</b>	<b>13533</b>	<b>327.07</b>	<b>13628</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)	200	50	200	0	3.43	0.00	3.43
765 KV Gwalior-Agra (D/C)	2699	2983	3092	0	63.81	0.00	63.81
400 KV Zerda-Kankroli	-188	-61	0	386	0.00	3.73	-3.73
400 KV Zerda-Bhinmal	0	0	0	0	0.00	0.00	0.00
220 KV Auraiya-Malanpur	9	33	0	28	0.45	0.00	0.45
220 KV Badod-Kota/Morak	-40	64	62	43	0.67	0.00	0.67
Mundra-Mohinderghar(HVDC Bipole)	2502	1699	2505	0.00	52.01	0.00	52.01
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	857	933	584	0	23.54	0.00	23.54
<b>Sub Total WR</b>	<b>6039</b>	<b>5701</b>			<b>143.92</b>	<b>3.73</b>	<b>140.19</b>
Pusauli Bypass/HVDC	390	-200	200	394	2.57	3.10	-0.52
400 KV MZP- GKP (D/C)	164	136	361	0	5.89	0.00	5.89
400 KV Patna-Balia(D/C) X 2	648	656	815	0	15.82	0.00	15.82
400 KV B'Sharif-Balia (D/C)	162	59	272	0	3.18	0.00	3.18
765 KV Gaya-Balia	277	257	316	0	3.15	0.00	3.15
765 KV Gaya-Varanasi (D/C)	280	170	396	0	5.72	0.00	5.72
220 KV Pusauli-Sahupuri	209	216	229	0	4.17	0.00	4.17
132 KV K'nasa-Sahupuri	-30	-32	0	40	0.00	0.59	-0.59
132 KV Son Ngr-Rihand	-23	-21	0	26	0.00	0.47	-0.47
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	32	-263	188	263	0.00	1.19	-1.19
400 KV Barh -GKP (D/C)	522	528	580	0	11.49	0.00	11.49
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>2631</b>	<b>1506</b>			<b>52.00</b>	<b>5.35</b>	<b>46.65</b>
+/- 800 KV BiswanathCharialli-Agra	950	961	961	0.00	22.14	0.00	22.14
<b>Sub Total NER</b>	<b>950</b>	<b>961</b>			<b>22.14</b>	<b>0.00</b>	<b>22.14</b>
<b>Total IR Exch</b>	<b>9620</b>	<b>8168</b>			<b>218.06</b>	<b>9.08</b>	<b>208.98</b>

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
44.11	2.31	46.43	7.11	20.18	13.17	3.86	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
66.70	136.00	202.70	68.79	140.19	208.98	2.09	4.19	6.28

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	-23	0	32	0	1	-0.64

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	3.88	51.14	81.23	13.52	1.45	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	21.55	49.81	21.08	50.00	0.027	0.052	50.15	49.95	18.77

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	21:10	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bareilly(PG)400kV	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Kanpur	400	413	7:43	397	13:46	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	5:56	390	15:25	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	417	5:56	340	12:23	32.8	32.8	0.0	0.0	32.8
Bawana	400	413	6:01	392	15:27	0.0	0.0	0.0	0.0	0.0
Bassi	400	416	6:03	390	11:23	0.0	0.0	0.0	0.0	0.0
Hissar	400	409	6:01	389	12:13	0.0	0.1	0.0	0.0	0.0
Moga	400	409	7:36	391	11:38	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Nalagarh	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Kishenpur	400	408	7:36	392	12:11	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	6:01	385	19:33	0.0	9.6	0.0	0.0	0.0
Amritsar	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Kashipur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Hamirpur	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Rishikesh	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

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	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Balia	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Moga	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Agra	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bhiwani	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Unnao	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Lucknow	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Meerut	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Jhatikara	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bareilly 765 kV	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Anta	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Phagi	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

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	479.95	461.24	488.22	680.71	1051.43	927.21
Pong	426.72	384.05	391.83	80.24	406.13	370.28	255.53	123.09
Tehri	829.79	740.04	755.65	88.00	749.25	44.52	680.28	281.00
Koteshwar	612.50	598.50	609.65	0.00	610.80	4.95	281.00	264.67
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	286.85	237.59
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	502.91	7.36	522.78	10.24	252.62	325.51

\* 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	829	744	0	1086	909	0	24.01	19.06	43.07
Delhi	279	7	0	624	-88	0	14.26	0.36	14.62
Haryana	1029	253	0	940	242	0	22.46	6.28	28.74
HP	-1129	-356	0	-875	-470	0	-23.01	-8.83	-31.84
J&K	-620	99	0	-570	60	0	-16.66	-0.27	-16.94
CHD	0	0	0	0	0	0	0.35	0.12	0.48
Rajasthan	-413	506	0	-413	436	0	-9.91	12.74	2.83
UP	1266	0	0	1126	0	0	26.24	0.00	26.24
Uttarakhand	43	11	0	44	134	0	1.03	1.47	2.51
<b>Total</b>	<b>1284</b>	<b>1265</b>	<b>0</b>	<b>1963</b>	<b>1224</b>	<b>0</b>	<b>38.78</b>	<b>30.93</b>	<b>69.71</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1427	680	1130	452	0	0
Delhi	769	279	405	-377	0	0
Haryana	1188	679	284	242	0	0
HP	-873	-1129	-276	-595	0	0
J&K	-570	-872	99	-126	0	0
CHD	44	0	20	0	0	0
Rajasthan	-413	-413	702	408	0	0
UP	1391	861	0	0	0	0
Uttarakhand	44	42	140	11	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	3.13%
ER	0.00%
Simultaneous	21.88%

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

WR	28.47%
ER	0.00%
Simultaneous	76.74%

(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 30.06.2016 :**

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

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

- 500 MVA ICT-II at Baghpur first time charged on No Load at 17.07 Hrs dt 30.06.2016.
- 500MVA ICT-III at Jalandhar first time put on load at 16:03 Hrs dt 30.06.2016.

**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.