

# 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 27.07.2016  
Date of Reporting : 28.07.2016



### 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
44791	1642	46433	50.05	44045	516	44561	50.03	1047.6	12.22

\*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 *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	75.94	13.25		89.20	123.02	123.17	0.14	212.37	0.00
Haryana	37.64	0.48		38.12	144.46	142.22	-2.24	180.34	0.00
Rajasthan	92.99	0.06	20.79	113.84	59.38	58.92	-0.46	172.76	0.00
Delhi	22.52			22.52	78.97	78.99	0.02	101.52	0.07
UP	120.58	20.59		141.17	148.29	148.39	0.10	289.56	5.31
Uttarakhand		8.90		8.93	23.53	27.03	3.50	35.95	0.68
HP		20.97		20.97	2.41	4.20	1.79	25.17	0.16
J & K		19.44	0.00	19.44	10.24	4.55	-5.68	23.99	6.00
Chandigarh				0.00	6.34	5.91	-0.43	5.91	0.00
<b>Total</b>	<b>349.68</b>	<b>83.68</b>	<b>20.79</b>	<b>454.18</b>	<b>596.64</b>	<b>593.38</b>	<b>-3.26</b>	<b>1047.56</b>	<b>12.22</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	8905	0	144	1451	8299	0	-51	1677	9245	21:00	0
Haryana	7951	0	-260	1957	7897	0	83	2121	8557	21:00	0
Rajasthan	7018	0	-341	226	6873	0	-340	161	7811	1:00	0
Delhi	4327	0	85	286	4199	0	139	277	4723	1:00	0
UP	11990	1225	407	890	13323	355	52	1570	13328	4:00	215
Uttarakhand	1771	75	266	-74	1388	0	113	-274	1771	20:00	75
HP	1000	0	80	-1536	997	0	109	-1544	1203	8:00	0
J&K	1567	342	-18	-666	854	161	-329	-944	1567	20:00	342
Chandigarh	262	0	-18	0	215	0	-23	0	288	16:00	0
<b>Total</b>	<b>44791</b>	<b>1642</b>	<b>346</b>	<b>2534</b>	<b>44045</b>	<b>516</b>	<b>-247</b>	<b>3043</b>	<b>46847</b>	<b>23:00</b>	<b>790</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 [OG:(+ve), UG: (-ve)]	
								Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)
<b>A. NTPC</b>									
Singrauli STPS (5*200+2*500)	2000	1868	2024	1890	43.14	1798	42.78		0.36
Rihand I STPS (2*500)	1000	0	0	0	0.00	0	0.00		0.00
Rihand II STPS (2*500)	1000	945	923	770	20.07	836	19.92		0.15
Rihand III STPS (2*500)	1000	945	1007	706	19.58	816	19.58		0.00
Dadri I STPS (4*210)	840	805	392	364	8.71	363	8.73		-0.02
Dadri II STPS (2*490)	980	960	918	639	16.80	700	17.56		-0.76
Unchahar I TPS (2*210)	420	355	355	350	6.47	270	7.11		-0.64
Unchahar II TPS (2*210)	420	400	419	287	6.85	286	7.53		-0.68
Unchahar III TPS (1*210)	210	200	210	139	3.33	139	3.66		-0.33
ISTPP (Jhajjar) (3*500)	1500	1425	820	896	18.79	783	18.84		-0.04
Dadri GPS (4*130.19+2*154.51)	830	782	174	149	3.64	152	3.71		-0.07
Anta GPS (3*88.71+1*153.2)	419	400	-1	-1	-0.03	-1	0.00		-0.03
Auraiya GPS (4*111.19+2*109.30)	663	632	125	138	2.87	120	3.00		-0.13
Dadri Solar(5)	5	1	0	0	0.01	0	0.02		0.00
Unchahar Solar(10)	10	1	0	0	0.02	1	0.02		0.00
Singrauli Solar(15)	15	2	0	0	0.04	2	0.04		0.00
KHEP(4*200)	800	855	854	852	20.71	863	20.52		0.19
<b>Sub Total (A)</b>	<b>12112</b>	<b>10571</b>	<b>8220</b>	<b>7179</b>	<b>171</b>	<b>7125</b>	<b>173</b>		<b>-2.01</b>
<b>B. NPC</b>									
NAPS (2*220)	440	385	426	431	9.28	387	9.24		0.04
RAPS- B (2*220)	440	178	203	205	4.24	177	4.27		-0.03
RAPS- C (2*220)	440	410	439	440	9.43	393	9.84		-0.41
<b>Sub Total (B)</b>	<b>1320</b>	<b>973</b>	<b>1068</b>	<b>1076</b>	<b>22.95</b>	<b>956</b>	<b>23.35</b>		<b>-0.41</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	540	548	251	9.13	380	9.00		0.13
Chamera II HPS (3*100)	300	301	309	304	7.27	303	7.22		0.05
Chamera III HPS (3*77)	231	229	232	228	5.47	228	5.50		-0.03
Bairasuli HPS(3*60)	180	137	0	188	3.04	127	2.86		0.18
Salal-HPS (6*115)	690	563	642	677	13.82	576	13.57		0.25
Tanakpur-HPS (3*31.4)	94	89	94	95	2.29	96	2.10		0.19
Uri-I HPS (4*120)	480	324	361	312	8.04	335	7.80		0.23
Uri-II HPS (4*60)	240	192	233	164	4.70	196	4.61		0.09
Dhauliganga-HPS (4*70)	280	270	269	267	6.47	270	6.48		-0.01
Dulhasti-HPS (3*130)	390	381	394	388	9.21	384	9.14		0.07
Sewa-II HPS (3*40)	120	119	126	0	1.63	68	1.63		0.00
Parbati 3 (4*130)	520	496	521	0	3.93	164	3.90		0.03
<b>Sub Total (C)</b>	<b>4065</b>	<b>3640</b>	<b>3729</b>	<b>2874</b>	<b>75</b>	<b>3125</b>	<b>74</b>		<b>1.19</b>
<b>D. SJVNL</b>									
NJPC (6*250)	1500	1605	1603	1616	38.47	1603	38.52		-0.05
Rampur HEP (6*68.67)	412	442	446	440	10.63	443	10.61		0.02
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2049</b>	<b>2056</b>	<b>49.11</b>	<b>2046</b>	<b>49.13</b>		<b>-0.02</b>
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	844	854	814	19.93	830	19.95		-0.02
Koteshwar HPS (4*100)	400	323	394	274	7.77	324	7.74		0.03
<b>Sub Total (E)</b>	<b>1400</b>	<b>1167</b>	<b>1248</b>	<b>1088</b>	<b>27.70</b>	<b>1154</b>	<b>27.69</b>		<b>0.01</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	1086	1299	894	26.08	1087	26.06		0.02
Dehar HPS (6*165)	990	608	825	560	14.54	606	14.59		-0.04
Pong HPS (6*66)	396	49	174	58	1.16	48	1.17		-0.01
<b>Sub Total (F)</b>	<b>2765</b>	<b>1742</b>	<b>2298</b>	<b>1512</b>	<b>41.79</b>	<b>1741</b>	<b>41.82</b>		<b>-0.03</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	189	141	4.19	175	3.22		0.97
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.18	1091	26.08		0.10
Malana Stg-II HPS (2*50)	100	0	112	100	2.51	105	2.32		0.19
Shree Cement TPS (2*150)	300	0	280	144	5.33	222	5.62		-0.30
Budhil HPS(IPP) (2*35)	70	0	73	70	1.76	73	1.54		0.22
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1754</b>	<b>1556</b>	<b>39.96</b>	<b>1665</b>	<b>38.78</b>		<b>1.18</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>20140</b>	<b>20366</b>	<b>17341</b>	<b>427.50</b>	<b>17812</b>	<b>427.58</b>		<b>-0.09</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	690	850	16.93	705	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	100	290	4.54	189	
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	416	592	11.23	468	
	Goindwal(GVK) (2*270)	540	180	180	4.46	186	
	Rajpura (2*700)	1400	1120	660	22.43	935	
	Talwandi Saboo (3*660)	1980	616	616	16.36	682	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3122</b>	<b>3188</b>	<b>75.94</b>	<b>3164</b>	
	Total Hydro	1000	474	638	13.25	552	
	<b>Total Punjab</b>	<b>7560</b>	<b>3596</b>	<b>3826</b>	<b>89.20</b>	<b>3717</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	412	421	9.74	406
DCRTPP (Yamuna nagar) (2*300)		600	461	462	11.20	467	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	304	312	7.72	322	
RGTPP (khedar) (IPP) (2*600)		1200	389	373	8.99	375	
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>1566</b>	<b>1568</b>	<b>37.64</b>	<b>1568</b>	
Total Hydro		62	0	38	0.48	20	
<b>Total Haryana</b>		<b>4559</b>	<b>1566</b>	<b>1606</b>	<b>38.12</b>	<b>1588</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	646	787	15.99	666
	suratgarh TPS (6*250)	1500	754	753	18.15	756	
	Chabra TPS (4*250)	1000	364	359	8.62	359	
	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	157	155	4.03	168	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	0	0	0.00	0	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	441	564	13.80	575	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	446	405	7.97	332	
	Kawai(Adani) (2*660)	1320	974	1057	24.45	1019	
	<b>Thermal (Total)</b>	<b>8876</b>	<b>3782</b>	<b>4080</b>	<b>93</b>	<b>3875</b>	
	Total Hydro	550	0	0	0.06	2	
	Wind power	3214	934	559	17.95	748	
	Biomass	99	14	14	0.34	14	
	Solar	730	0	0	2.50	104	
	Renewable/Others (Total)	4043	948	573	20.79	866	
	<b>Total Rajasthan</b>	<b>13469</b>	<b>4730</b>	<b>4653</b>	<b>113.84</b>	<b>4743</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1300	1128	29.10	1213
Obra TPS (2*50+2*94+5*200)		1194	320	335	8.00	333	
Paricha TPS (2*110+2*220+2*250)		1160	576	590	13.60	567	
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaganj TPS (1*60+1*105+2*250)		665	391	500	10.50	438	
Tanda TPS (NTPC) (4*110)		440	271	270	6.37	265	
Roza TPS (IPP) (4*300)		1200	666	837	17.77	741	
Anpara-C (IPP) (2*600)		1200	1080	1089	24.81	1034	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	171	242	4.75	198	
Anpara-D(2*500)		1000	187	140	4.47	186	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	0	0	0.00	0	
<b>Thermal (Total)</b>		<b>12449</b>	<b>4962</b>	<b>5131</b>	<b>119</b>	<b>4974</b>	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.47	436	
Alaknanda(4*82.5)		330	341	341	8.13	339	
Other Hydro		527	20	217	1.99	83	
Cogeneration		981	50	50	1.20	50	
<b>Total UP</b>		<b>14727</b>	<b>5808</b>	<b>6174</b>	<b>141</b>	<b>5882</b>	
Uttarakhand		Total Hydro	1398	413	548	8.90	371
		Total Gas	225	0	0	0.03	1
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>413</b>	<b>548</b>	<b>9</b>	<b>372</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	92	103	2.55	106	
	Pragati Gas Turbine (2x104+ 1x122)	330	264	263	6.39	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	253	252	6.03	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	320	320	7.57	315	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>929</b>	<b>938</b>	<b>22.52</b>	<b>938</b>	
	<b>Total Delhi</b>	<b>2917</b>	<b>929</b>	<b>938</b>	<b>22.52</b>	<b>938</b>	
HP	Baspa HPS (IPP) (3*100)	300	329	329	7.85	327	
	Malana HPS (IPP) (2*43)	86	104	89	2.25	94	
	Other Hydro	878	393	528	10.86	453	
	<b>Total HP</b>	<b>1264</b>	<b>826</b>	<b>946</b>	<b>20.97</b>	<b>874</b>	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	730	730	14.55	606	
	Other Hydro/IPP	560	200	210	4.89	204	
	Gas/Diesel/Others	190	0	0	0.00	0	
	<b>Total J &amp; K</b>	<b>1500</b>	<b>930</b>	<b>940</b>	<b>19.44</b>	<b>810</b>	
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>18798</b>	<b>19631</b>	<b>454.18</b>	<b>18924</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>8088.96</b>	<b>8413.72</b>	<b>185.17</b>	<b>7715</b>	
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>47253</b>	<b>45386</b>	<b>1066.84</b>	<b>44452</b>	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11579	9724	247.17	10299
State Control Area Hydro		7106	3439	4103	83.71	3488
<b>Total Regional Hydro</b>		<b>19340</b>	<b>15018</b>	<b>13827</b>	<b>330.88</b>	<b>13787</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)	-300	250	250	500	1.02	6.94	-5.92
765 KV Gwalior-Agra (D/C)	2479	2135	3025	0	52.72	0.00	52.72
400 KV Zerda-Kankroli	63	-45	103	112	0.08	0.00	0.08
400 KV Zerda-Bhinmal	71	-7	198	158	0.55	0.00	0.55
220 KV Auraiya-Malanpur	-21	-15	0	38	0.00	0.13	-0.13
220 KV Badod-Kota/Morak	38	59	109	19	1.54	0.00	1.54
Mundra-Mohindergarh(HVDC Bipole)	2002	2000	2505	0.00	41.95	0.00	41.95
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	917	879	1153	603	22.75	0.00	22.75
<b>Sub Total WR</b>	<b>5249</b>	<b>5256</b>	<b>1153</b>	<b>0</b>	<b>120.60</b>	<b>7.07</b>	<b>113.54</b>
Pusauli Bypass/HVDC	-115	-101	0	121	0.00	1.93	-1.93
400 KV MZP- GKP (D/C)	188	464	554	0	10.14	0.00	10.14
400 KV Patna-Balia(D/C) X 2	612	612	656	0	14.11	0.00	14.11
400 KV B'Sharif-Balia (D/C)	126	220	278	0	5.23	0.00	5.23
765 KV Gaya-Balia	266	269	349	0	3.28	0.00	3.28
765 KV Gaya-Varanasi (D/C)	488	457	592	0	10.81	0.00	10.81
220 KV Pusauli-Sahupuri	175	202	202	0	4.44	0.00	4.44
132 KV K'nasa-Sahupuri	-20	-28	0	40	0.00	0.58	-0.58
132 KV Son Ngr-Rihand	-26	-27	0	40	0.00	0.58	-0.58
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	35	38	148	0	1.70	0.00	1.70
400 KV Barh -GKP (D/C)	490	480	502	0	10.56	0.00	10.56
400 kV B'Sharif - Varanasi (D/C)	138	91	207	0	3.51	0.00	3.51
<b>Sub Total ER</b>	<b>2357</b>	<b>2677</b>	<b>0</b>	<b>0</b>	<b>63.80</b>	<b>3.08</b>	<b>60.72</b>
+/- 800 KV BiswanathChariali-Agra	483	481	488	0.00	10.91	0.00	10.91
<b>Sub Total NER</b>	<b>483</b>	<b>481</b>	<b>0</b>	<b>0</b>	<b>10.91</b>	<b>0.00</b>	<b>10.91</b>
<b>Total IR Exch</b>	<b>8089</b>	<b>8414</b>	<b>1153</b>	<b>0</b>	<b>195.31</b>	<b>10.15</b>	<b>185.17</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
33.55	3.32	36.86	12.00	15.28	15.20	1.04	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
64.07	131.21	195.28	71.63	113.54	185.17	7.56	-17.68	-10.11

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	-24	-10	0	31	0	1	-0.52

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	1.35	40.94	76.64	19.57	2.51	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	10.03	49.85	20.47	50.01	0.025	50.16	50.00	23.36	

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	413	7:58	404	15:50	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	7:56	402	22:08	0.0	0.0	1.4	0.0	1.4
Bareilly(PG)400kV	400	420	6:02	396	13:59	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	6:03	402	22:07	0.0	0.0	0.0	0.0	0.0
Dadri	400	417	6:02	400	22:16	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	426	6:03	405	22:16	0.0	0.0	20.8	0.0	20.8
Bawana	400	419	6:01	402	22:16	0.0	0.0	0.0	0.0	0.0
Bassi	400	424	6:02	403	22:16	0.0	0.0	5.9	0.0	5.9
Hissar	400	416	6:02	397	22:16	0.0	0.0	0.0	0.0	0.0
Moga	400	415	6:03	399	22:16	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	415	5:37	402	19:51	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	421	3:58	409	14:30	0.0	0.0	3.2	0.0	3.2
Kishenpur	400	417	6:01	402	20:41	0.0	0.0	0.0	0.0	0.0
Wagoora	400	415	4:47	393	20:20	0.0	0.0	0.0	0.0	0.0
Amritsar	400	414	1:25	165	12:02	0.0	0.0	0.0	0.0	0.0
Kashipur	400	421	6:03	410	14:10	0.0	0.0	0.9	0.0	0.9
Hamirpur	400	420	4:41	404	12:40	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	416	7:55	390	14:22	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	786	7:59	750	22:11	0.0	0.0	0.0	0.0	0.0
Balia	765	800	8:01	764	22:18	0.0	0.0	0.0	0.0	0.0
Moga	765	804	6:02	769	22:17	0.0	0.0	2.6	0.0	2.6
Agra	765	793	6:02	752	22:16	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	802	5:37	769	22:08	0.0	0.0	4.0	0.0	4.0
Unnao	765	774	8:01	743	22:17	0.0	0.0	0.0	0.0	0.0
Lucknow	765	805	8:02	767	22:16	0.0	0.0	5.4	0.0	5.4
Meerut	765	812	6:03	770	22:16	0.0	0.0	19.0	0.0	19.0
Jhatikara	765	779	19:19	765	22:18	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	795	8:01	757	14:21	0.0	0.0	0.0	0.0	0.0
Anta	765	795	5:04	772	14:49	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	5:36	767	22:12	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	485.25	593.99	501.67	1166.44	1032.37	940.46
Pong	426.72	384.05	400.58	230.85	414.50	656.23	1791.38	82.26
Tehri	829.79	740.04	786.80	410.00	790.75	463.00	1444.47	526.00
Koteswar	612.50	598.50	609.45	4.35	609.89	4.69	526.00	513.12
Chamera-I	760.00	748.75	754.91	0.00	0.00	0.00	492.91	250.14
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	506.73	6.54	523.22	10.76	159.06	318.65

\* 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	1323	354	0	1174	277	0	29.08	9.59	38.67
Delhi	294	-17	0	715	-429	0	15.99	-4.29	11.70
Haryana	1769	353	0	1615	342	0	39.03	7.77	46.80
HP	-1492	-53	0	-1222	-314	0	-31.43	-3.70	-35.13
J&K	-793	-151	0	-652	-15	0	-18.07	-0.75	-18.83
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-397	558	0	-296	522	0	-6.43	12.70	6.27
UP	1179	391	0	679	212	0	17.40	3.73	21.13
Uttarakhand	-354	79	0	-349	275	0	-7.78	4.74	-3.03
<b>Total</b>	<b>1530</b>	<b>1514</b>	<b>0</b>	<b>1664</b>	<b>870</b>	<b>0</b>	<b>38.15</b>	<b>29.78</b>	<b>67.93</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1323	1174	590	256	0	0
Delhi	824	294	58	-466	0	0
Haryana	1841	1524	390	-48	0	0
HP	-1215	-1496	18	-323	0	0
J&K	-626	-979	0	-151	0	0
CHD	44	0	0	0	0	0
Rajasthan	-194	-397	560	40	0	0
UP	1206	493	587	0	0	0
Uttarakhand	-154	-355	311	79	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	0.00%

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

WR	10.42%
ER	0.00%
Simultaneous	4.17%

(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 27.07.2016 :**

**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.