

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 13.06.2016  
Date of Reporting : 14.06.2016



### 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
41697	499	42195	50.08	46036	771	46807	50.03	1073.2	14.68

\*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	79.73	10.82		90.55	95.62	97.69	2.06	188.23	0.00
Haryana	26.42	0.62		27.05	120.50	118.96	-1.53	146.01	0.46
Rajasthan	97.68	0.00	38.93	136.61	63.93	63.60	-0.33	200.21	0.00
Delhi	21.20			21.20	90.82	92.10	1.27	113.29	0.00
UP	163.84	16.13		179.97	141.60	139.49	-2.11	319.46	4.75
Uttarakhand		17.38		17.38	21.23	22.26	1.03	39.64	0.36
HP		17.74		17.74	6.17	7.29	1.12	25.03	0.93
J & K		21.87	0.00	21.87	16.78	12.88	-3.90	34.75	8.19
Chandigarh				0.00	6.44	6.52	0.27	6.52	0.00
<b>Total</b>	<b>388.87</b>	<b>84.55</b>	<b>38.93</b>	<b>512.36</b>	<b>563.10</b>	<b>560.80</b>	<b>-2.11</b>	<b>1073.16</b>	<b>14.68</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	7480	0	180	482	7438	0	38	585	8074	16:00	0
Haryana	4724	0	-1555	851	6788	43	181	1035	6928	2:00	121
Rajasthan	7431	0	-296	393	8347	0	-210	393	8898	24:00	0
Delhi	4789	0	-76	374	4791	0	186	383	5800	16:00	0
UP	12326	0	-701	1094	14423	445	115	1182	14423	3:00	445
Uttarakhand	1829	40	69	239	1498	0	57	166	1829	20:00	40
HP	1016	0	108	-1350	907	0	19	-1358	1178	10:00	120
J&K	1834	459	-80	-569	1603	283	2	-576	1834	20:00	459
Chandigarh	269	0	2	0	243	0	2	0	339	15:00	0
<b>Total</b>	<b>41697</b>	<b>499</b>	<b>-2350</b>	<b>1514</b>	<b>46036</b>	<b>771</b>	<b>389</b>	<b>1811</b>	<b>47046</b>	<b>15:00</b>	<b>1487</b>

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

Diversity is: 1.05

### III. Regional Entities :

Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1900	1906	2044	43.43	1810	42.94	0.49
Rihand I STPS (2*500)	1000	465	451	511	10.31	430	10.70	-0.39
Rihand II STPS (2*500)	1000	946	773	1006	21.91	913	21.73	0.18
Rihand III STPS (2*500)	1000	853	792	984	18.86	786	19.63	-0.77
Dadri I STPS (4*210)	840	805	232	296	7.46	311	7.62	-0.16
Dadri II STPS (2*490)	980	960	597	790	17.70	737	18.49	-0.79
Unchahar I TPS (2*210)	420	350	251	336	6.85	285	7.29	-0.44
Unchahar II TPS (2*210)	420	400	279	414	7.42	309	8.05	-0.64
Unchahar III TPS (1*210)	210	200	129	155	3.56	144	3.86	-0.30
ISTPP (Jhajjar) (3*500)	1500	1425	931	1099	25.02	1042	26.48	-1.47
Dadri GPS (4*130.19+2*154.51)	830	786	227	300	7.50	313	7.87	-0.36
Anta GPS (3*88.71+1*153.2)	419	398	0	244	1.19	49	1.31	-0.12
Auraiya GPS (4*111.19+2*109.30)	663	627	91	154	3.28	137	3.36	-0.08
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.05	2	0.04	0.00
Singrauli Solar(15)	15	3	0	0	0.08	3	0.07	0.01
KHEP(4*200)	800	872	603	718	18.93	789	18.59	0.34
<b>Sub Total (A)</b>	<b>12112</b>	<b>10994</b>	<b>7262</b>	<b>9051</b>	<b>194</b>	<b>8065</b>	<b>198</b>	<b>-4.50</b>
<b>B. NPC</b>								
NAPS (2*220)	440	190	210	214	4.50	187	4.56	-0.06
RAPS- B (2*220)	440	363	411	407	8.74	364	8.71	0.03
RAPS- C (2*220)	440	388	431	435	9.29	387	9.31	-0.02
<b>Sub Total (B)</b>	<b>1320</b>	<b>941</b>	<b>1052</b>	<b>1056</b>	<b>22.53</b>	<b>939</b>	<b>22.58</b>	<b>-0.06</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	540	345	544	9.53	397	9.38	0.15
Chamera II HPS (3*100)	300	300	312	310	7.40	308	7.19	0.21
Chamera III HPS (3*77)	231	225	227	229	5.37	224	5.28	0.09
Bairasuli HPS(3*60)	180	179	183	0	2.43	101	2.35	0.08
Salal-HPS (6*115)	690	644	676	674	15.82	659	15.45	0.37
Tanakpur-HPS (3*31.4)	94	47	40	40	1.17	49	1.11	0.06
Uri-I HPS (4*120)	480	475	479	479	11.58	483	11.39	0.19
Uri-II HPS (4*60)	240	237	241	241	5.74	239	5.69	0.06
Dhauliganga-HPS (4*70)	280	280	281	75	3.84	160	3.69	0.15
Dulhasti-HPS (3*130)	390	387	403	398	9.41	392	9.28	0.13
Sewa-II HPS (3*40)	120	119	71	0	0.72	30	0.70	0.02
Parbati 3 (4*130)	520	390	390	0	2.63	110	2.55	0.08
<b>Sub Total (C)</b>	<b>4065</b>	<b>3824</b>	<b>3647</b>	<b>2989</b>	<b>76</b>	<b>3151</b>	<b>74</b>	<b>1.57</b>
<b>D. SJVNL</b>								
NJPC (6*250)	1500	1605	1617	1620	38.69	1612	38.52	0.18
Rampur HEP (6*68.67)	412	438	449	451	10.68	445	10.51	0.17
<b>Sub Total (D)</b>	<b>1912</b>	<b>2043</b>	<b>2066</b>	<b>2071</b>	<b>49.37</b>	<b>2057</b>	<b>49.03</b>	<b>0.35</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	266	263	270	6.14	256	6.15	-0.01
Koteshwar HPS (4*100)	400	113	272	93	2.44	102	2.38	0.06
<b>Sub Total (E)</b>	<b>1400</b>	<b>379</b>	<b>535</b>	<b>363</b>	<b>8.58</b>	<b>357</b>	<b>8.53</b>	<b>0.05</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	1043	1284	883	24.66	1028	25.04	-0.38
Dehar HPS (6*165)	990	616	825	580	14.80	617	14.78	0.02
Pong HPS (6*66)	396	39	0	46	0.92	38	0.93	-0.01
<b>Sub Total (F)</b>	<b>2765</b>	<b>1698</b>	<b>2109</b>	<b>1509</b>	<b>40.38</b>	<b>1683</b>	<b>40.75</b>	<b>-0.37</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	181	132	3.32	138	3.20	0.12
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.26	1094	26.17	0.10
Malana Stg-II HPS (2*50)	100	0	75	85	1.76	73	1.67	0.09
Shree Cement TPS (2*150)	300	0	282	251	5.96	248	5.99	-0.04
Budhil HPS(IPP) (2*35)	70	0	68	65	1.49	62	1.53	-0.04
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1707</b>	<b>1633</b>	<b>38.79</b>	<b>1616</b>	<b>38.56</b>	<b>0.23</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>19878</b>	<b>18378</b>	<b>18672</b>	<b>428.84</b>	<b>17868</b>	<b>431.57</b>	<b>-2.73</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	420	320	8.25	344
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	240	200	4.97	207
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	859	944	20.09	837
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1170	1320	30.45	1269
	Talwandi Saboo (3*660)	1980	616	450	15.99	666
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3305</b>	<b>3234</b>	<b>79.73</b>	<b>3322</b>
	Total Hydro	1000	369	445	10.82	451
	<b>Total Punjab</b>	<b>7560</b>	<b>3674</b>	<b>3679</b>	<b>90.55</b>	<b>3773</b>
	Haryana	Panipat TPS (2*210+2*250)	920	230	0	1.89
DCRTPP (Yamuna nagar) (2*300)		600	461	552	12.64	527
Faridabad GPS (NTPC)(2*137.75+1*156)		432	329	191	6.50	271
RGTPP (khedar) (IPP) (2*600)		1200	461	522	5.40	225
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>1481</b>	<b>1265</b>	<b>26.42</b>	<b>1101</b>
Total Hydro		62	24	34	0.62	26
<b>Total Haryana</b>		<b>4559</b>	<b>1505</b>	<b>1299</b>	<b>27.05</b>	<b>1127</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	917	924	22.88
	suratgarh TPS (6*250)	1500	382	398	9.11	380
	Chabra TPS (4*250)	1000	465	497	11.39	474
	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	189	170	4.34	181
	RAPS A (NPC) (1*100+1*200)	300	136	138	3.41	142
	Barsingar (NLC) (2*125)	250	80	79	1.81	76
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	427	452	11.85	494
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	413	408	9.72	405
	Kawai(Adani) (2*660)	1320	864	953	23.17	966
	<b>Thermal (Total)</b>	<b>8876</b>	<b>3873</b>	<b>4019</b>	<b>98</b>	<b>4070</b>
	Total Hydro	550	0	0	0.00	0
	Wind power	3214	1493	1569	38.47	1603
	Biomass	99	19	19	0.46	19
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	1512	1588	38.93	1622
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5385</b>	<b>5607</b>	<b>136.61</b>	<b>5692</b>
	UP	Anpara TPS (3*210+2*500)	1630	1395	1396	33.50
Obra TPS (2*50+2*94+5*200)		1194	558	537	13.10	546
Paricha TPS (2*110+2*220+2*250)		1160	982	757	19.20	800
Panki TPS (2*105)		210	68	72	1.70	71
Harduaganj TPS (1*60+1*105+2*250)		665	518	536	12.30	513
Tanda TPS (NTPC) (4*110)		440	389	390	9.24	385
Roza TPS (IPP) (4*300)		1200	725	1112	22.80	950
Anpara-C (IPP) (2*600)		1200	1053	1085	24.60	1025
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	282	405	8.60	358
Anpara-D(2*500)		1000	298	78	6.30	263
Lalitpur TPS(3*660)		1980	0	0	0.00	0
Bara(2*660)		1320	507	531	12.50	521
<b>Thermal (Total)</b>		<b>12449</b>	<b>6775</b>	<b>6899</b>	<b>164</b>	<b>6827</b>
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438
Alaknanda(4*82.5)		330	171	240	4.50	188
Other Hydro		527	40	181	1.13	47
Cogeneration		981	0	0	0.00	0
<b>Total UP</b>		<b>14727</b>	<b>7421</b>	<b>7755</b>	<b>180</b>	<b>7499</b>
Uttarakhand		Total Hydro	1398	749	657	17.38
	Total Gas	225	0	0	0.00	0
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>749</b>	<b>657</b>	<b>17</b>	<b>724</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	132	57	2.11	88
	Pragati Gas Turbine (2x104+ 1x122)	330	78	266	5.74	239
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	253	6.08	253
	Badarpur TPS (NTPC) (3*95+2*210)	705	323	327	7.27	303
	Thermal (Total)	2917	785	903	21.20	883
	<b>Total Delhi</b>	<b>2917</b>	<b>785</b>	<b>903</b>	<b>21.20</b>	<b>883</b>
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.75	323
	Malana HPS (IPP) (2*43)	86	59	73	1.50	62
	Other Hydro	878	359	374	8.49	354
	<b>Total HP</b>	<b>1264</b>	<b>748</b>	<b>777</b>	<b>17.74</b>	<b>739</b>
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733
	Other Hydro/IPP	560	184	176	4.28	178
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1500</b>	<b>917</b>	<b>909</b>	<b>21.87</b>	<b>911</b>
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>21184</b>	<b>21586</b>	<b>512.36</b>	<b>21348</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>3999</b>	<b>7422</b>	<b>159.20</b>	<b>6633</b>
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>43561</b>	<b>47680</b>	<b>1100.39</b>	<b>45850</b>

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	10317	8967	224.23	9343
State Control Area Hydro		7106	3453	3678	85	3523
<b>Total Regional Hydro</b>		<b>19340</b>	<b>13770</b>	<b>12645</b>	<b>308.78</b>	<b>12866</b>

V(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	
Vindhychal(HVDC B/B)	50	50	50	250	0.94	1.23	-0.29
765 KV Gwalior-Agra (D/C)	1308	2863	2977	0	57.94	0.00	57.94
400 KV Zerda-Kankroli	-286	-257	0	326	0.00	5.96	-5.96
400 KV Zerda-Bhinmal	-256	-252	0	366	0.00	5.40	-5.40
220 KV Auraiya-Malanpur	-34	-6	0	73	0.00	0.11	-0.11
220 KV Badod-Kota/Morak	-40	40	90	40	1.07	0.00	1.07
Mundra-Mohindergarh(HVDC Bipole)	1707	2498	0	2505.00	52.91	0.00	52.91
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	255	517	777	0	14.86	0.00	14.86
<b>Sub Total WR</b>	<b>2704</b>	<b>5453</b>			<b>127.72</b>	<b>12.70</b>	<b>115.01</b>
Pusauli Bypass/HVDC	400	400	400	0	9.15	0.00	9.15
400 KV MZP- GKP (D/C)	4	347	457	0	7.70	0.00	7.70
400 KV Patna-Balia(D/C) X 2	402	581	756	0	14.06	0.00	14.06
400 KV B'Sharif-Balia (D/C)	95	38	95	0	0.41	0.00	0.41
765 KV Gaya-Balia	74	190	204	0	1.72	0.00	1.72
765 KV Gaya-Varanasi (D/C)	96	-187	243	96	3.56	0.00	3.56
220 KV Pusauli-Sahupuri	208	237	247	0	5.16	0.00	5.16
132 KV K'nasa-Sahupuri	0	-28	0	40	0.00	0.54	-0.54
132 KV Son Ngr-Rihand	25	-35	0	38	0.00	0.69	-0.69
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-429	-280	0	429	0.00	5.43	-5.43
400 KV Barh -GKP (D/C)	368	472	554	0	10.58	0.00	10.58
400 kV B'Sharif - Varanasi (D/C)	52	234	28	234	0.00	1.48	-1.48
<b>Sub Total ER</b>	<b>1295</b>	<b>1969</b>			<b>52.33</b>	<b>8.14</b>	<b>44.19</b>
+/- 800 KV BiswanathCharialli-Agra	0	0	0	0.00	0.00	0.00	0.00
<b>Sub Total NER</b>	<b>0</b>	<b>0</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total IR Exch</b>	<b>3999</b>	<b>7422</b>			<b>180.04</b>	<b>20.84</b>	<b>159.20</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
33.31	0.87	34.18	8.56	10.21	-0.63	-1.74	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
42.12	108.87	150.98	44.19	115.01	159.20	2.07	6.15	8.22

V(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	-27	-27	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	0.93	6.71	44.30	71.90	18.50	3.73	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)		
50.17	6.00	49.75	21.06	50.00	0.039	50.17	49.93	28.10	

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	412	18:29	403	13:40	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	7:01	392	14:11	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	414	18:44	386	13:48	0.0	5.2	0.0	0.0	0.0
Kanpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	20:01	390	14:11	0.0	0.0	0.1	0.0	0.1
Ballabgarh	400	428	19:36	390	14:21	0.0	0.0	4.2	0.0	4.2
Bawana	400	416	18:51	392	14:21	0.0	0.0	0.0	0.0	0.0
Bassi	400	420	19:27	389	14:20	0.0	0.1	0.0	0.0	0.0
Hissar	400	420	19:38	392	0:00	0.0	0.0	0.0	0.0	0.0
Moga	400	409	17:34	391	10:19	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	415	19:37	394	15:15	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	414	20:02	392	14:37	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	405	7:01	394	20:49	0.0	0.0	0.0	0.0	0.0
Wagoora	400	404	6:02	378	20:39	2.3	18.4	0.0	0.0	2.3
Amritsar	400	411	17:28	398	9:30	0.0	0.0	0.0	0.0	0.0
Kashipur	400	418	19:49	404	14:30	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	405	19:59	392	10:51	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	420	19:56	386	14:35	0.0	1.8	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	791	18:33	743	14:21	0.0	0.0	0.0	0.0	0.0
Balia	765	786	17:04	740	14:11	0.0	0.6	0.0	0.0	0.0
Moga	765	790	19:24	751	0:18	0.0	0.0	0.0	0.0	0.0
Agra	765	792	18:50	740	13:45	0.0	0.9	0.0	0.0	0.0
Bhiwani	765	800	19:24	752	0:00	0.0	0.0	0.0	0.0	0.0
Unnao	765	773	18:44	729	13:46	0.0	15.0	0.0	0.0	0.0
Lucknow	765	788	17:04	731	14:11	0.0	8.6	0.0	0.0	0.0
Meerut	765	811	19:56	753	0:18	0.0	0.0	5.5	0.0	5.5
Jhatikara	765	793	18:51	745	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	790	18:45	736	13:46	0.0	3.9	0.0	0.0	0.0
Anta	765	786	18:30	760	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	789	18:33	748	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	479.49	447.73	487.20	133.16	962.12	947.42
Pong	426.72	384.05	389.16	46.80	405.88	370.28	134.93	82.23
Tehri	829.79	740.04	743.85	19.04	743.10	19.00	208.59	232.00
Koteshwar	612.50	598.50	607.59	3.47	609.22	4.44	232.00	161.23
Chamera-I	760.00	748.75	753.79	0.00	0.00	0.00	264.78	262.15
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	1144.00	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	505.71	4.01	521.87	5.97	179.19	167.40

\* 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	200	385	0	200	282	0	5.85	9.21	15.06
Delhi	278	105	0	438	-64	0	12.72	-1.04	11.67
Haryana	773	262	0	554	296	0	15.57	7.13	22.70
HP	-819	-539	0	-768	-581	0	-16.98	-12.05	-29.03
J&K	-576	0	0	-569	0	0	-15.90	-0.67	-16.57
CHD	0	0	0	0	0	0	0.36	0.27	0.63
Rajasthan	-7	401	0	-7	401	0	-0.17	9.28	9.11
UP	1182	0	0	1094	0	0	23.92	0.00	23.92
Uttarakhand	54	112	0	54	185	0	1.30	3.33	4.63
<b>Total</b>	<b>1085</b>	<b>726</b>	<b>0</b>	<b>996</b>	<b>518</b>	<b>0</b>	<b>26.66</b>	<b>15.47</b>	<b>42.13</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	597	200	420	278	0	0
Delhi	757	278	266	-491	0	0
Haryana	801	554	328	261	0	0
HP	-565	-819	-363	-642	0	0
J&K	-526	-896	0	-252	0	0
CHD	44	0	39	0	0	0
Rajasthan	-7	-7	401	256	0	0
UP	1465	813	0	0	0	0
Uttarakhand	54	54	197	55	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	2.08%
ER	0.00%
Simultaneous	12.15%

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

WR	20.49%
ER	0.00%
Simultaneous	49.31%

(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 13.06.2016 :**

01)Thunderstorm and rain occurred in some part of UP,HARIYANA and DELHI.

**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.