

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(सर्वरक्षित की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 07.04.2016  
Date of Reporting : 08.04.2016



### 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
39398	1950	41348	50.02	35529	276	35804	50.08	850.9	31.59

\* 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)	UI [OD:(+ve), UD:(-ve)] Shortages *
	Thermal	Hydro	Renewable/others †	Total					
Punjab	37.13	9.44		46.56	55.90	55.05	-0.85	101.61	0.00
Haryana	32.59	0.27		32.86	80.59	77.92	-2.67	110.78	0.00
Rajasthan	114.90	0.24	5.03	120.18	54.06	54.46	0.40	174.64	0.00
Delhi	11.51			11.51	70.85	70.17	-0.67	81.68	0.00
UP	164.96	3.80		168.76	107.76	108.23	0.47	276.99	20.88
Uttarakhand		7.95		7.95	24.15	25.23	1.08	33.18	0.00
HP		9.31		9.31	12.47	13.97	1.50	23.28	0.10
J & K		14.50	0.00	14.50	25.01	30.34	5.34	44.84	10.60
Chandigarh				0.00	3.98	3.91	0.27	3.91	0.00
<b>Total</b>	<b>361.09</b>	<b>45.50</b>	<b>5.03</b>	<b>411.63</b>	<b>434.76</b>	<b>439.29</b>	<b>4.87</b>	<b>850.92</b>	<b>31.59</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				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	4807	0	207	-214	3431	0	195	-7	4807
Haryana	6652	0	-88	667	4091	0	-255	252	6652
Rajasthan	7614	0	110	436	7560	0	106	321	8125
Delhi	3811	0	0	-166	3201	0	157	-416	3910
UP	11830	1417	-31	226	13436	0	164	1718	13436
Uttarakhand	1333	0	-283	414	1351	0	133	477	1607
HP	1030	1	-19	-731	773	0	196	-29	1211
J&K	2128	532	261	-33	1562	276	41	-94	2128
Chandigarh	193	0	-11	0	124	0	8	0	193
<b>Total</b>	<b>39398</b>	<b>1950</b>	<b>146</b>	<b>598</b>	<b>35529</b>	<b>276</b>	<b>745</b>	<b>2223</b>	<b>39398</b>

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

Diversity is 1.07

### III. Regional Entities :

Entity	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 Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	908	1034	1000	22.30	929	21.31	0.99
	Rihand I STPS (2*500)	1000	725	778	814	17.37	724	16.90	0.47
	Rihand II STPS (2*500)	1000	828	966	773	20.23	843	19.51	0.72
	Rihand III STPS (2*500)	1000	943	1010	1018	22.62	943	22.28	0.34
	Dadri I STPS (4*210)	840	815	598	727	14.10	588	14.88	-0.78
	Dadri II STPS (2*490)	980	485	423	425	9.36	390	10.17	-0.81
	Unchahar I TPS (2*210)	420	346	360	392	7.90	329	7.81	0.09
	Unchahar II TPS (2*210)	420	200	204	220	4.34	181	4.34	0.00
	Unchahar III TPS (1*210)	210	202	220	221	4.42	184	4.44	-0.02
	ISTPP (Jhajhri) (3*500)	1500	950	633	634	14.37	599	14.65	-0.28
	Dadri GPS (4*130.19+2*154.51)	830	790	316	325	8.07	336	8.39	-0.32
	Anta GPS (3*88.71+1*153.2)	419	265	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	645	273	296	6.72	280	6.84	-0.12
	Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar(10)	10	1	0	0	0.02	1	0.03	-0.01
	Singrauli Solar(15)	15	3	0	0	0.06	3	0.06	0.00
	KHEP(4*200)	800	872	497	0	3.70	154	3.50	0.20
<b>Sub Total (A)</b>	<b>12112</b>	<b>8979</b>	<b>7312</b>	<b>6845</b>	<b>156</b>	<b>6484</b>	<b>155</b>	<b>0</b>	
B. NPC	NAPS (2*220)	440	380	432	439	9.58	399	9.12	0.46
	RAPS- B (2*220)	440	374	416	422	9.03	376	8.98	0.05
	RAPS- C (2*220)	440	415	440	448	9.59	399	9.36	-0.37
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1169</b>	<b>1288</b>	<b>1309</b>	<b>28.19</b>	<b>1175</b>	<b>28.06</b>	<b>0.13</b>
C. NHPC	Chamera I HPS (3*180)	540	534	546	0	9.45	394	9.00	0.45
	Chamera II HPS (3*100)	300	300	299	0	2.90	121	2.76	0.14
	Chamera III HPS (3*77)	231	231	160	0	1.64	68	1.56	0.08
	Bairasuli HPS(3*60)	180	179	183	12	2.68	112	2.59	0.09
	Salal-HPS (6*115)	690	415	627	435	10.56	440	9.96	0.61
	Tanakpur-HPS (3*40)	94	17	14	21	0.51	21	0.40	0.11
	Uri-I HPS (4*120)	480	474	476	470	11.44	476	11.40	0.04
	Uri-II HPS (4*60)	240	116	220	0	2.95	123	2.79	0.17
	Dhauliganga-HPS (4*70)	280	280	282	0	0.93	39	0.84	0.09
	Dulhasi-HPS (3*130)	390	387	399	131	5.78	241	5.42	0.36
	Sewa-II HPS (3*40)	120	119	126	129	2.24	93	2.03	0.22
Parbati 3 (4*130)	520	260	131	0	0.82	34	0.78	0.04	
<b>Sub Total (C)</b>	<b>4065</b>	<b>3313</b>	<b>3463</b>	<b>1198</b>	<b>52</b>	<b>2163</b>	<b>50</b>	<b>2</b>	
D.SJVNL	NJPC (6*250)	1500	1350	1329	0	8.18	341	8.10	0.08
	Rampur HEP (6*68.67)	412	358	371	0	2.24	93	2.17	0.07
	<b>Sub Total (D)</b>	<b>1912</b>	<b>1708</b>	<b>1700</b>	<b>0</b>	<b>10.42</b>	<b>434</b>	<b>10.27</b>	<b>0.15</b>
E. THDC	Tehri HPS (4*250)	1000	435	414	0	4.80	200	4.80	0.00
	Koteswar HPS (4*100)	400	100	101	102	2.41	101	2.40	0.01
	<b>Sub Total (E)</b>	<b>1400</b>	<b>535</b>	<b>515</b>	<b>102</b>	<b>7.22</b>	<b>301</b>	<b>7.20</b>	<b>0.02</b>
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	446	836	366	11.08	462	10.71	0.37
	Dehar HPS (6*165)	990	317	660	165	7.53	314	7.62	-0.09
	Pong HPS (6*66)	396	7	108	0	0.28	12	0.18	0.11
	<b>Sub Total (F)</b>	<b>2765</b>	<b>771</b>	<b>1604</b>	<b>531</b>	<b>18.89</b>	<b>787</b>	<b>18.50</b>	<b>0.39</b>
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	20	0	0.65	27	0.62	0.03
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	680	150	4.04	168	4.18	-0.14
	Malana Stg-II HPS (2*50)	100	0	0	0	0.36	15	0.34	0.01
	Shree Cement TPS (2*150)	300	0	291	297	6.98	291	7.00	-0.03
	Budhil HPS(IPP) (2*35)	70	0	35	0	0.26	11	0.35	-0.09
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1026</b>	<b>447</b>	<b>12.28</b>	<b>512</b>	<b>12.49</b>	<b>-0.21</b>	
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>16475</b>	<b>16908</b>	<b>10432</b>	<b>284.51</b>	<b>11855</b>	<b>281.17</b>	<b>3.34</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	210	160	3.47	144
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	100	2.21	92
	Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250)	920	256	389	6.44	268
	Goindwal(GVK)		130	0	0.21	9
	Rajpura (2*700)	1400	330	330	9.48	395
	Talwandi Saboo (2*660)	1320	616	614	15.32	638
	<b>Thermal (Total)</b>	<b>5360</b>	<b>1662</b>	<b>1593</b>	<b>37.13</b>	<b>1547</b>
	Total Hydro	1000	396	390	9.44	393
	<b>Total Punjab</b>	<b>6360</b>	<b>2058</b>	<b>1983</b>	<b>46.56</b>	<b>1940</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	208	2.09
DCRTPP (Yamuna nagar) (2*300)		600	553	476	11.42	476
Faridabad GPS (NTPC)		432	0	0	0.00	0
RGTPP (kheadar) (IPP) (2*600)		1200	1119	799	19.08	795
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0
<b>Thermal (Total)</b>		<b>4944</b>	<b>1672</b>	<b>1483</b>	<b>32.59</b>	<b>1358</b>
Total Hydro		62	11	15	0.27	11
<b>Total Haryana</b>		<b>5006</b>	<b>1683</b>	<b>1498</b>	<b>32.86</b>	<b>1369</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	690	700	16.90
	suratgarh TPS (6*250)	1500	196	193	4.68	195
	Chabra TPS (4*250)	1000	766	747	19.66	819
	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	206	209	5.31	221
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingar (NLC) (2*125)	250	162	159	2.66	111
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwast LTPS (IPP) (8*135)	1080	469	722	15.60	650
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalsindh Thermal(2*600)	1200	827	895	21.63	901
	Kawail(Adani) (2*660)	1320	1176	1197	28.47	1186
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4492</b>	<b>4822</b>	<b>115</b>	<b>4788</b>
	Total Hydro	550	14	17	0.24	10
	Wind power	3214	65	537	4.32	180
	Biomass	99	23	23	0.55	23
	Solar	730	1	0	0.16	6
	Renewable/Others (Total)	4043	89	560	5.03	210
	<b>Total Rajasthan</b>	<b>13469</b>	<b>4595</b>	<b>5399</b>	<b>120.18</b>	<b>5007</b>
UP	Anpara TPS (3*210+2*500)	1630	1234	1235	29.50	1229
	Obra TPS (2*50+2*94+5*200)	1194	436	401	10.30	429
	Paricha TPS (2*110+2*220+2*250)	1140	959	1004	23.80	992
	Panki TPS (2*105)	210	77	77	1.90	79
	Harduaganj TPS (1*60+1*105+2*250)	665	320	551	9.30	388
	Tanda TPS (NTPC) (4*110)	440	377	380	9.06	378
	Roza TPS (IPP) (4*300)	1200	1080	1077	25.10	1046
	Anpara-C (IPP) (2*600)	1200	898	1080	24.10	1004
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	405	405	8.60	358
	Anpara-D(2*500)	500	0	249	4.00	167
	Lalitpur TPS(2*660)	1320	488	439	9.70	404
	Bara(2*660)	1320	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>11269</b>	<b>6274</b>	<b>6898</b>	<b>155</b>	<b>6474</b>
	Vishnuparyag HPS (IPP)(4*110)	440	78	78	1.90	79
	Alakananda(4*82.5)	330	88	86	1.20	50
	Other Hydro	527	24	3	0.70	29
	Cogeneration	981	400	400	9.60	400
	<b>Total UP</b>	<b>13547</b>	<b>6864</b>	<b>7465</b>	<b>169</b>	<b>7032</b>
	Uttarakhand	Total Hydro	1398	440	219	7.95
<b>Total Uttarakhand</b>		<b>1398</b>	<b>440</b>	<b>219</b>	<b>7.95</b>	<b>331</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	36	0.87	36
	Prahati Gas Turbine (2x104+ 1x122)	330	147	147	3.63	151
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	0	0	0.00	0
	Badarpur TPS (NTPC) (3*95+2*210)	705	324	338	7.00	292
	<b>Thermal (Total)</b>	<b>2917</b>	<b>507</b>	<b>521</b>	<b>11.51</b>	<b>479</b>
<b>Total Delhi</b>	<b>2917</b>	<b>507</b>	<b>521</b>	<b>11.51</b>	<b>479</b>	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.87	36
	Malana HPS (IPP) (2*43)	86	0	0	0.45	19
	Other Hydro	878	362	309	8.00	333
	<b>Total HP</b>	<b>1264</b>	<b>362</b>	<b>309</b>	<b>9.31</b>	<b>388</b>
J & K	Baglihar HPS (IPP) (3*150)	450	440	440	10.56	440
	Other Hydro/IPP	560	156	153	3.94	164
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>596</b>	<b>593</b>	<b>14.50</b>	<b>604</b>
<b>Total State Control Area Generation</b>		<b>45161</b>	<b>17105</b>	<b>17987</b>	<b>411.63</b>	<b>17151</b>
<b>J. Net Inter Regional Exchange (Import +ve)Export -ve)</b>			<b>6123</b>	<b>7447</b>	<b>158.59</b>	<b>6608</b>
<b>Total Regional Availability(Gross)</b>		<b>70398</b>	<b>40136</b>	<b>35866</b>	<b>854.73</b>	<b>35614</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	8479	1981	97.17	4049
State Control Area Hydro	6581	2009	1710	46	1896
<b>Total Regional Hydro</b>	<b>18815</b>	<b>10488</b>	<b>3691</b>	<b>142.67</b>	<b>5945</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)	100	100	100	100	2.21	0.21	2.00		
765 KV Gwalior-Agra (D/C)	2295	2713	3031	0	61.71	0.00	61.71		
400 KV Zerda-Kankroli	-93	-180	0	224	0.00	3.22	-3.22		
400 KV Zerda-Bhinmal	50	-153	86	190	0.00	1.76	-1.76		
220 KV Auraiya-Malanpur	-48	-49	0	196	0.00	1.00	-1.00		
220 KV Badod-Kota/Morak	-6	-18	21	65	0.00	0.55	-0.55		
Mundra-Mohindergarh(HVDC Bipole)	2497	2503	2509	0	60.45	0.00	60.45		
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 kV Phagi-Gwalior (D/C)	665	705	920	0	16.62	0.00	16.62		
<b>Sub Total WR</b>	<b>5460</b>	<b>5621</b>			<b>140.98</b>	<b>6.74</b>	<b>134.24</b>		
Pusauli Bypass/HVDC	0	300	300	310	4.04	0.00	4.04		
400 KV MZP- GKP (D/C)	-132	196	196	176	0.88	0.00	0.88		
400 KV Patna-Balia(D/C) X 2	109	332	375	0	5.96	0.00	5.96		
400 KV B'Sharif-Balia (D/C)	17	143	167	0	2.12	0.00	2.12		
765 KV Gaya-Balia	188	309	335	0	3.21	0.00	3.21		
765 KV Gaya-Varanasi -1	0	0	0	0	0.00	0.00	0.00		
220 KV Pusauli-Sahupuri	140	195	203	0	4.00	0.00	4.00		
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
132 KV Son Ngr-Rihand	-22	-22	0	30	0.00	0.61	-0.61		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-163	-229	22	359	0.00	3.68	-3.68		
400 KV Barh -GKP (D/C)	111	172	211	0	4.05	0.00	4.05		
400 kvB'Sharif - Varanasi (D/C)	-85	-70	0	350	0.00	4.85	-4.85		
<b>Sub Total ER</b>	<b>163</b>	<b>1326</b>			<b>24.25</b>	<b>9.14</b>	<b>15.11</b>		
+/- 800 KV BiswanathCharialli-Agra	500	500	500	0	9.24	0.00	9.24		
<b>Sub Total NER</b>	<b>500</b>	<b>500</b>			<b>9.24</b>	<b>0.00</b>	<b>9.24</b>		
<b>Total IR Exch</b>	<b>6123</b>	<b>7447</b>			<b>174.47</b>	<b>15.87</b>	<b>158.59</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	
33.65	0.34	33.99	3.43	6.50	-0.50	14.78	0.00	0.00	
<b>Total IR Schedule (MU)</b>									
<b>Total IR Actual (MU)</b>									
<b>Net IR UI (MU)</b>									
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER(including NER)	Through WR	Total	
36.93	134.13	171.06	24.35	134.24	158.59	-12.58	0.11	-12.47	

**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	-32	-29	0	32	0	1	-0.68		

**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	0.24	13.61	66.09	74.25	9.68	2.49	0.00	0.00	
Frequency (Hz)										
Maximum				Minimum				Frequency in 15 Min Block		Freq Dev Index (% of Time)
Max	Time	Min	Time	Average Frequency	Frequency Variation Index	Std. Dev.	MAX (Hz)	MIN (Hz)		
50.19	13.01	49.78	0.09	49.97	0.051	0.066	50.16	49.91	25.75	

**VII. Voltage profile 400 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of Time)
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	404	07:18	398	00:30	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	17:03	403	02:08	0.0	0.0	5.4	0.0	5.4
Bareilly(PG)400kV	400	417	17:32	402	10:54	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	08:04	404	19:11	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	08:03	405	19:13	0.0	0.0	0.1	0.0	0.1
Ballaahgarh	400	427	08:01	409	14:36	0.0	0.0	35.5	0.0	35.5
Bawana	400	425	08:04	408	19:10	0.0	0.0	30.3	0.0	30.3
Bassi	400	420	04:01	402	19:36	0.0	0.0	0.0	0.0	0.0
Hissar	400	420	01:59	404	19:12	0.0	0.0	0.0	0.0	0.0
Moga	400	420	01:59	407	19:12	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	02:00	406	19:12	0.0	0.0	32.1	0.0	32.1
Nalagarh	400	434	02:00	413	19:10	0.0	0.0	68.9	4.5	68.9
Kishenpur	400	422	03:59	400	19:22	0.0	0.0	3.1	0.0	3.1
Wagoora	400	410	13:01	376	19:24	10.5	29.6	0.0	0.0	10.5
Amritsar	400	430	02:00	411	14:42	0.0	0.0	38.4	0.0	38.4
Kashipur	400	420	21:45	413	00:40	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	21:55	408	12:11	0.0	0.0	2.3	0.0	2.3
Rishikesh	400	415	21:56	387	09:50	0.0	5.6	0.0	0.0	0.0

**VIII. Voltage profile 765 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of Time)
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	781	08:05	744	19:13	0.0	0.0	0.0	0.0	0.0
Balia	765	780	17:03	753	02:07	0.0	0.0	0.0	0.0	0.0
Moga	765	801	18:00	778	19:12	0.0	0.0	0.0	0.0	0.0
Agra	765	790	07:01	760	14:47	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	798	21:50	778	11:40	0.0	0.0	0.0	0.0	0.0
Unnao	765	763	17:38	744	19:12	0.0	0.0	0.0	0.0	0.0
Lucknow	765	784	13:01	762	01:11	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	17:48	776	12:12	0.0	0.0	11.9	0.0	11.9
Jhatikara	765	800	07:44	769	14:37	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Anta	765	772	02:00	760	00:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	781	03:59	760	14:31	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	479.74	454.47	481.21	488.47	260.60	331.11
Pong	426.72	384.05	395.75	136.17	403.62	304.55	62.72	22.96
Tehri	829.79	740.04	750.85	55.49	771.15	219.00	42.01	149.00
Koteswar	612.50	598.50	611.32	5.20	610.80	4.97	149.00	159.02
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	178.03	258.07
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	496.94	5.78	513.91	2.36	288.71	260.04

\* 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	9	-16	0	-400	186	0	-1.45	0.98	-0.47
Delhi	-302	-113	0	-176	10	0	-4.84	0.87	-3.98
Haryana	330	-78	0	369	298	0	6.12	3.36	9.49
HP	-126	98	0	-25	-706	0	-1.41	-1.34	-2.75
J&K	-81	-13	0	-81	48	0	-1.34	-0.18	-1.52
CHD	0	0	0	0	0	0	0.00	0.19	0.19
Rajasthan	-8	329	0	-4	440	0	-0.17	9.58	9.41
UP	549	1169	0	226	0	0	6.19	6.19	12.39
Uttarakhand	476	1	0	340	74	0	11.31	0.38	11.69
<b>Total</b>	<b>846</b>	<b>1377</b>	<b>0</b>	<b>248</b>	<b>351</b>	<b>0</b>	<b>14.42</b>	<b>20.02</b>	<b>34.44</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	9	-400	300	-887	0	0
Delhi	-176	-302	304	-179	0	0
Haryana	471	56	325	-281	0	0
HP	-25	-126	195	-706	0	0
J&K	-7	-81	48	-26	0	0
CHD	0	0	40	-30	0	0
Rajasthan	-4	-8	454	-258	0	0
UP	560	139	1169	0	0	0
Uttarakhand	602	340	97	1	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	0.00%
ER	0.00%
Simultaneous	0.00%

(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 07.04.2016 :**

Normal

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

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

400/220 KV ICT 3 at Mandola first time charged at 1627 Hrs on 07.04.16 after retrofitment of capacity enhancement from 315 MVA to 500 MVA

0.00  
0.00  
0.00

**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.