

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारसिड की पूर्ण स्वामित्व प्राप्त सार्वजनिक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188692

Power Supply Position in Northern Region for 27.04.2016

Date of Reporting : 28.04.2016



### 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
42346	2302	44648	50.04	39245	3497	42742	50.04	945.1	29.63

\* 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	60.27	8.56		68.83	56.20	55.35	-0.86	124.17	0.00
Haryana	41.58	0.30		41.88	96.67	93.11	-3.56	135.00	0.00
Rajasthan	141.03	0.02	6.33	147.38	43.35	42.27	-1.09	189.64	0.87
Delhi	21.15			21.15	72.12	72.42	0.30	93.57	0.20
UP	176.03	5.50		181.53	113.43	113.34	-0.09	294.86	16.19
Uttarakhand		8.69		8.69	26.84	28.60	1.76	37.29	1.73
HP		8.39		8.39	13.89	15.36	1.48	23.75	0.78
J & K		12.74	0.00	12.74	23.88	29.06	5.19	41.81	9.86
Chandigarh				0.00	4.97	5.06	0.27	5.06	0.00
<b>Total</b>	<b>440.05</b>	<b>44.21</b>	<b>6.33</b>	<b>490.58</b>	<b>451.35</b>	<b>454.56</b>	<b>3.40</b>	<b>945.15</b>	<b>29.63</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	5318	0	-83	-185	5186	0	92	69	5619
Haryana	6785	0	-289	6433	6433	0	-38	846	7150
Rajasthan	7906	0	55	68	8077	0	71	-9	8847
Delhi	4046	9	25	-78	3767	152	27	-259	4389
UP	13181	1810	-120	649	12181	2830	65	770	13511
Uttarakhand	1879	0	10	612	1335	160	82	585	1879
HP	1070	0	184	-554	661	102	99	-173	1187
J&K	1930	483	315	12	1436	253	141	-44	2076
Chandigarh	231	0	-11	-20	169	0	50	0	260
<b>Total</b>	<b>42346</b>	<b>2302</b>	<b>87</b>	<b>1203</b>	<b>39245</b>	<b>3497</b>	<b>589</b>	<b>1784</b>	<b>43566</b>

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

Diversity is 1.03

### 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	915	982	1058	23.22	968	21.87	1.35
	Rihand I STPS (2*500)	1000	800	849	886	19.22	801	18.99	0.23
	Rihand II STPS (2*500)	1000	948	1010	1034	23.11	963	22.59	0.52
	Rihand III STPS (2*500)	1000	758	926	505	18.46	769	17.94	0.53
	Dadri I STPS (4*210)	840	805	580	800	16.89	704	17.86	-0.97
	Dadri II STPS (2*490)	980	480	451	475	10.61	442	11.22	-0.60
	Unchahar I TPS (2*210)	420	314	343	374	7.41	309	7.46	-0.04
	Unchahar II TPS (2*210)	420	19	0	0	0.40	17	0.43	-0.03
	Unchahar III TPS (1*210)	210	170	172	0	3.89	162	4.00	-0.11
	ISTPP (Jhajhar) (3*500)	1500	950	891	1000	19.38	808	19.81	-0.43
	Dadri GPS (4*130.19+2*154.51)	830	772	354	371	8.55	356	8.61	-0.06
	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	622	149	121	3.33	139	3.32	0.01
	Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar(10)	10	2	0	0	0.04	1	0.04	-0.01
	Singrauli Solar(15)	15	2	0	0	0.01	0	0.06	-0.05
	KHEP(4*200)	800	655	652	0	3.10	129	2.80	0.30
<b>Sub Total (A)</b>	<b>12112</b>	<b>8478</b>	<b>7359</b>	<b>6624</b>	<b>158</b>	<b>6568</b>	<b>157</b>	<b>1</b>	
B. NPC	NAPS (2*220)	440	394	428	429	9.26	386	9.46	-0.20
	RAPS- B (2*220)	440	370	409	411	8.81	367	6.50	2.31
	RAPS- C (2*220)	440	415	439	444	9.48	395	9.96	-0.48
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1179</b>	<b>1276</b>	<b>1284</b>	<b>27.55</b>	<b>1148</b>	<b>25.92</b>	<b>1.63</b>
C. NHPC	Chamera I HPS (3*180)	540	535	425	0	3.56	148	3.22	0.34
	Chamera II HPS (3*100)	300	300	306	0	3.31	138	2.98	0.33
	Chamera III HPS (3*77)	231	231	229	0	1.99	83	1.84	0.14
	Bairasuil HPS(3*60)	180	179	183	0	2.23	93	2.10	0.13
	Salal-HPS (6*115)	690	340	505	350	8.91	371	8.09	0.82
	Tanakpur-HPS (3*31.4)	94	16	28	16	0.50	21	0.37	0.12
	Uri-I HPS (4*120)	480	475	474	473	11.50	479	11.40	0.10
	Uri-II HPS (4*60)	240	184	181	241	4.50	187	4.45	0.05
	Dhauliganga-HPS (4*70)	280	280	281	0	1.49	62	1.29	0.21
	Dulhasti-HPS (3*130)	390	387	405	263	6.73	280	6.50	0.23
	Sewa-II HPS (3*40)	120	119	87	41	0.96	40	0.70	0.26
	Parbati 3 (4*130)	520	260	258	0	0.95	40	0.91	0.05
	<b>Sub Total (C)</b>	<b>4065</b>	<b>3306</b>	<b>3361</b>	<b>1384</b>	<b>47</b>	<b>1942</b>	<b>44</b>	<b>3</b>
	D. SJVNL	NJPC (6*250)	1500	1605	1532	0	9.82	409	9.27
Rampur HEP (6*68.67)		412	375	372	0	2.70	113	2.55	0.15
<b>Sub Total (D)</b>		<b>1912</b>	<b>1980</b>	<b>1904</b>	<b>0</b>	<b>12.52</b>	<b>522</b>	<b>11.82</b>	<b>0.70</b>
E. THDC	Tehri HPS (4*250)	1000	437	516	0	2.75	115	2.75	0.00
	Koteshwar HPS (4*100)	400	60	101	0	1.48	62	1.44	0.04
	<b>Sub Total (E)</b>	<b>1400</b>	<b>497</b>	<b>617</b>	<b>0</b>	<b>4.23</b>	<b>176</b>	<b>4.19</b>	<b>0.04</b>
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	655	1176	374	15.51	646	15.72	-0.20
	Dehar HPS (6*165)	990	279	660	165	6.79	283	6.69	0.10
	Pong HPS (6*66)	396	41	159	0	0.89	37	0.99	-0.10
	<b>Sub Total (F)</b>	<b>2765</b>	<b>975</b>	<b>1995</b>	<b>539</b>	<b>23.19</b>	<b>966</b>	<b>23.40</b>	<b>-0.21</b>
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*1000)	192	0	0	109	0.99	41	0.91	0.07
	KARCHAM WANGTOO HPS(IPP)	1000	0	680	150	4.52	188	4.66	-0.14
	Malana Stg-II HPS (2*50)	100	0	111	15	0.47	20	0.44	0.03
	Shree Cement TPS (2*150)	300	0	288	298	7.01	292	6.99	0.03
	Budhil HPS(IPP) (2*35)	70	0	35	0	0.35	14	0.35	0.00
	<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1114</b>	<b>571</b>	<b>13.33</b>	<b>556</b>	<b>13.34</b>	<b>-0.01</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>16414</b>	<b>17626</b>	<b>10402</b>	<b>285.07</b>	<b>11878</b>	<b>279.53</b>	<b>5.54</b>	

I. State Entities	Station	Erective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	210	3.57	149
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	100	115	2.33	97
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	365	464	9.34	389
	Goindwal(GVK) (2*270)	540	0	0	-0.04	-2
	Rajpura (2*700)	1400	1320	1320	31.53	1314
	Talwandi Saboo (3*660)	1980	570	613	13.55	565
	<b>Thermal (Total)</b>	<b>6560</b>	<b>2355</b>	<b>2722</b>	<b>60.27</b>	<b>2511</b>
	Total Hydro	1000	336	404	8.56	357
	<b>Total Punjab</b>	<b>7560</b>	<b>2691</b>	<b>3126</b>	<b>68.83</b>	<b>2868</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	407	469	9.94
DCRTPP (Yamuna nagar) (2*300)		600	270	530	6.58	274
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (khedar) (IPP) (2*600)		1200	993	1148	21.52	897
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	378	0	3.53	147
<b>Thermal (Total)</b>		<b>4944</b>	<b>2048</b>	<b>2147</b>	<b>41.58</b>	<b>1732</b>
Total Hydro		62	2	13	0.30	13
<b>Total Haryana</b>		<b>5006</b>	<b>2050</b>	<b>2160</b>	<b>41.88</b>	<b>1745</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	877	955	22.41
	suratgarh TPS (6*250)	1500	975	1088	24.00	1000
	Chabra TPS (4*250)	1000	640	669	16.04	668
	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	173	209	4.75	198
	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	649	841	19.24	801
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	907	1120	26.22	1093
	Kawai(Adani) (2*660)	1320	1024	1205	28.37	1182
	<b>Thermal (Total)</b>	<b>8876</b>	<b>5245</b>	<b>6087</b>	<b>141</b>	<b>5876</b>
	Total Hydro	550	0	0	0.02	1
	Wind power	3214	116	264	5.54	231
	Biomass	99	31	31	0.75	31
	Solar	730	0	0	0.05	2
	Renewable/Others (Total)	4043	147	295	6.33	264
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5392</b>	<b>6382</b>	<b>147.38</b>	<b>6141</b>
	UP	Anpara TPS (3*210+2*500)	1630	1216	1171	28.90
Obra TPS (2*50+2*94+5*200)		1194	606	434	11.90	496
Paricha TPS (2*110+2*220+2*250)		1160	995	858	21.90	913
Panki TPS (2*105)		210	72	54	1.50	63
Harduaganj TPS (1*60+1*105+2*250)		665	551	546	13.10	546
Tanda TPS (NTPC) (4*110)		440	390	390	9.33	389
Roza TPS (IPP) (4*300)		1200	1080	1103	26.30	1096
Anpara-C (IPP) (2*600)		1200	1078	1085	25.80	1075
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	403	405	9.40	392
Anpara-D(2*500)		1000	246	251	6.00	250
Lalitpur TPS(3*660)		1980	149	418	6.10	254
Bara(2*660)		1320	448	534	11.00	458
<b>Thermal (Total)</b>		<b>12449</b>	<b>7234</b>	<b>7249</b>	<b>171</b>	<b>7135</b>
Vishnuparyag HPS (IPP)(4*110)		440	88	93	2.10	88
Alakanada(4*82.5)		330	86	81	1.30	54
Other Hydro		527	89	206	2.10	88
Cogeneration		981	200	200	4.80	200
<b>Total UP</b>	<b>14727</b>	<b>7697</b>	<b>7829</b>	<b>182</b>	<b>7564</b>	
Uttarakhand	Total Hydro	1398	505	281	8.69	362
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>505</b>	<b>281</b>	<b>8.69</b>	<b>362</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	31	32	0.74	31
	Pragati Gas Turbine (2x104+ 1x122)	330	268	263	6.50	271
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	253	253	6.24	260
	Badarpur TPS (NTPC) (3*95+2*210)	705	324	325	7.66	319
	<b>Thermal (Total)</b>	<b>2917</b>	<b>876</b>	<b>873</b>	<b>21.15</b>	<b>881</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>876</b>	<b>873</b>	<b>21.15</b>	<b>881</b>
HP	Baspa HPS (IPP) (3*100)	300	0	77	1.34	56
	Malana HPS (IPP) (2*43)	86	17	33	0.43	18
	Other Hydro	878	274	259	6.63	276
	<b>Total HP</b>	<b>1264</b>	<b>291</b>	<b>369</b>	<b>8.39</b>	<b>350</b>
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	440	380	10.49	437
	Other Hydro/IPP	560	118	82	2.25	94
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1500</b>	<b>558</b>	<b>462</b>	<b>12.74</b>	<b>531</b>
<b>Total State Control Area Generation</b>		<b>47841</b>	<b>20060</b>	<b>21482</b>	<b>490.58</b>	<b>20441</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>6754</b>	<b>8633</b>	<b>179.98</b>	<b>7499</b>
<b>Total Regional Availability(Gross)</b>		<b>73078</b>	<b>44440</b>	<b>40517</b>	<b>955.63</b>	<b>39818</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	9320	2197	95.63	3985
State Control Area Hydro	6881	1955	1909	44	1842
<b>Total Regional Hydro</b>	<b>19115</b>	<b>11275</b>	<b>4105</b>	<b>139.84</b>	<b>5827</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	6.06	0.00	6.06
765 KV Gwalior-Agra (D/C)	2666	3344	3415	0	74.46	0.00	74.46
400 KV Zerda-Kankroli	-186	-181	0	340	0.00	4.00	-4.00
400 KV Zerda-Bhinmal	-123	-135	65	288	0.00	2.41	-2.41
220 KV Auraiya-Malanpur	-33	5	0	49	0.35	0.35	0.00
220 KV Badod-Kota/Morak	-2	14	43	44	0.31	0.00	0.31
Mundra-Mohindergarh(HVDC Bipole)	2499	2502	2516	0	50.86	0.00	50.86
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	718	858	441	0	18.43	0.00	18.43
<b>Sub Total WR</b>	<b>5789</b>	<b>6657</b>			<b>150.46</b>	<b>6.75</b>	<b>143.71</b>

Pusauli Bypass/HVDC	100	100	300	0	3.15	0.00	3.15
400 KV MZP- GKP (D/C)	-112	76	136	216	0.00	0.47	-0.47
400 KV Patna-Balia(D/C) X 2	198	409	459	0	8.63	0.00	8.63
400 KV B Sharif-Balia (D/C)	102	250	334	0	5.29	0.00	5.29
765 KV Gaya-Balia	257	349	416	0	4.04	0.00	4.04
765 KV Gaya-Varanasi (D/C)	21	88	201	82	2.28	0.00	2.28
220 KV Pusauli-Sahupuri	0	163	178	0	1.81	0.00	1.81
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-24	-27	0	30	0.00	0.56	-0.56
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-154	-167	0	266	0.00	3.27	-3.27
400 KV Barh -GKP (D/C)	298	356	364	0	6.97	0.00	6.97
400 kvB'Sharif - Varanasi (D/C)	-221	-121	270	270	0.00	3.21	-3.21
<b>Sub Total ER</b>	<b>465</b>	<b>1476</b>			<b>32.16</b>	<b>7.51</b>	<b>24.66</b>
+/- 800 KV BiswanathCharialli-Agra	500	500	486	0	11.61	0.00	11.61
<b>Sub Total NER</b>	<b>500</b>	<b>500</b>			<b>11.61</b>	<b>0.00</b>	<b>11.61</b>
<b>Total IR Exch</b>	<b>6754</b>	<b>8633</b>			<b>194.23</b>	<b>14.26</b>	<b>179.98</b>

**VB. 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
40.02	0.57	40.59	4.42	-0.12	3.43	21.40	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
48.45	138.63	187.08	36.27	143.71	179.98	-12.18	5.08	-7.10

**VC. 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	-28	0	32	0	1	-0.69

**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	5.82	35.01	73.66	55.47	7.55	1.97	0.02	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)		
50.20	18.01	49.71	1.50	49.94	0.116	0.00	0.00	44.53	

**VII. Voltage profile 400 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of)
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	407	20:03	401	03:04	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	13:02	398	22:13	0.0	0.0	0.1	0.0	0.1
Bareilly(PG)400kV	400	416	13:03	392	22:14	0.0	0.0	0.0	0.0	0.0
Kanpur	400	414	13:01	396	00:06	0.0	0.0	0.0	0.0	0.0
Dadri	400	417	04:02	400	22:15	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	422	04:02	401	22:16	0.0	0.0	9.3	0.0	9.3
Bawana	400	420	05:46	401	22:15	0.0	0.0	0.0	0.0	0.0
Bassi	400	420	18:15	392	00:04	0.0	0.1	0.0	0.0	0.0
Hissar	400	417	05:46	396	22:17	0.0	0.0	0.0	0.0	0.0
Moga	400	417	13:23	400	00:04	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	426	13:19	401	22:16	0.0	0.0	6.8	0.0	6.8
Nalagarh	400	428	13:20	407	19:39	0.0	0.0	22.1	0.0	22.1
Kishenpur	400	418	18:00	397	22:15	0.0	0.0	0.0	0.0	0.0
Wagoora	400	411	18:00	379	22:17	0.1	25.2	0.0	0.0	0.1
Amritsar	400	422	13:19	404	19:30	0.0	0.0	2.3	0.0	2.3
Kashipur	400	420	13:03	408	19:33	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	04:02	403	08:50	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	409	13:03	380	19:40	0.0	14.5	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)
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	765	13:01	728	00:05	0.0	16.4	0.0	0.0	0.0
Balia	765	777	13:01	739	22:17	0.0	1.5	0.0	0.0	0.0
Moga	765	797	13:01	763	00:06	0.0	0.0	0.0	0.0	0.0
Agra	765	786	18:30	740	00:05	0.0	0.5	0.0	0.0	0.0
Bhiwani	765	795	13:02	759	00:05	0.0	0.0	0.0	0.0	0.0
Unnao	765	764	13:01	730	22:17	0.0	17.7	0.0	0.0	0.0
Lucknow	765	786	13:02	745	22:14	0.0	0.0	0.0	0.0	0.0
Meerut	765	803	13:01	760	00:07	0.0	0.0	1.5	0.0	1.5
Jhatikara	765	794	13:02	756	22:15	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	785	13:03	741	22:17	0.0	0.2	0.0	0.0	0.0
Anta	765	781	18:16	754	00:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	788	18:30	732	13:35	0.0	0.1	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	476.37	381.25	484.12	560.76	221.55	541.84
Pong	426.72	384.05	394.53	116.59	404.99	344.07	35.57	71.73
Tehri	829.79	740.04	0.00	0.00	0.00	0.00	0.00	0.00
Koteshwar	612.50	598.50	607.69	3.32	610.89	4.95	107.00	97.79
Chamera-I	760.00	748.75	754.12	0.00	0.00	0.00	127.88	97.97
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	498.48	2.75	519.87	2.41	160.96	113.22

\* 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	22	47	0	-389	204	0	-1.11	0.03	-1.08
Delhi	-75	-184	0	-75	-3	0	-1.70	1.35	-0.35
Haryana	538	307	0	394	304	0	10.60	4.59	15.19
HP	-303	130	0	-151	-403	0	-4.84	-0.05	-4.90
J&K	-117	73	0	-124	136	0	-2.87	1.97	-0.91
CHD	0	0	0	0	-20	0	0.00	0.50	0.50
Rajasthan	-366	357	0	-362	431	0	-8.78	8.88	0.10
UP	770	0	0	649	0	0	15.63	1.13	16.76
Uttarakhand	25	439	121	224	243	146	2.21	10.95	13.17
<b>Total</b>	<b>493</b>	<b>1169</b>	<b>121</b>	<b>166</b>	<b>891</b>	<b>146</b>	<b>9.14</b>	<b>29.34</b>	<b>38.47</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	22	-389	225	-512	0	0
Delhi	-41	-75	517	-309	0	0
Haryana	545	391	349	-258	0	0
HP	-151	-303	262	-592	0	0
J&K	-117	-124	136	-13	0	0
CHD	0	0	79	-20	0	0
Rajasthan	-362	-369	434	13	0	0
UP	860	566	683	0	0	0
Uttarakhand	236	0	439	128	146	121

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	2.78%
ER	0.00%
Simultaneous	13.89%

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

WR	9.72%
ER	0.00%
Simultaneous	30.56%

(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 27.04.2016 :  
Normal

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :  
0.00  
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.