

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिक लिमिटेड कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 09.03.2016  
Date of Reporting : 10.03.2016



### I. Regional Availability/Demand:

Evening Peak (19:00 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
36155	953	37108	50.03	30255	1314	31570	50.09	814.2	43.37

\* 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	38.53	6.78		45.30	57.96	57.68	-0.28	102.98	0.00
Haryana	31.41	0.30		31.71	76.64	76.62	-0.01	108.34	0.00
Rajasthan	129.17	4.67	3.07	136.92	61.92	63.60	1.68	200.52	0.00
Delhi	10.31			10.31	49.27	51.09	1.83	61.41	0.26
UP	127.64	2.10		129.74	107.28	108.06	0.78	237.80	33.43
Uttarakhand		8.20		8.20	24.51	26.00	1.48	34.19	0.00
HP		4.47		4.47	20.34	19.90	-0.44	24.37	0.00
J & K		6.03	0.00	6.03	34.35	35.20	0.84	41.23	9.68
Chandigarh				0.00	3.51	3.38	0.27	3.38	0.00
<b>Total</b>	<b>337.06</b>	<b>32.55</b>	<b>3.07</b>	<b>372.68</b>	<b>435.78</b>	<b>441.53</b>	<b>6.14</b>	<b>814.21</b>	<b>43.37</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 (19:00 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	4672	0	103	-614	3209	0	126	268	5275
Haryana	5571	0	-112	101	3158	0	-257	-136	6032
Rajasthan	7587	0	-201	647	8491	0	369	663	9530
Delhi	2899	0	-155	-443	1713	0	123	-1044	3339
UP	10621	480	105	37	10010	1020	-72	129	11445
Uttarakhand	1687	0	158	560	1208	0	101	361	1697
HP	1052	0	-79	225	707	0	-11	271	1345
J&K	1891	473	-79	603	1668	294	77	498	1991
Chandigarh	175	0	-27	0	92	0	-7	0	183
<b>Total</b>	<b>36155</b>	<b>953</b>	<b>-287</b>	<b>1117</b>	<b>30255</b>	<b>1314</b>	<b>449</b>	<b>1011</b>	<b>38146</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	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1867	2045	1978	44.67	1861	44.33	0.34
	Rihand I STPS (2*500)	1000	868	943	667	19.20	800	19.20	0.39
	Rihand II STPS (2*500)	1000	958	1018	828	21.66	903	20.90	0.77
	Rihand III STPS (2*500)	1000	968	1008	1015	22.29	929	22.28	0.01
	Dadri I STPS (4*210)	840	815	303	309	7.33	305	7.48	-0.15
	Dadri II STPS (2*490)	980	980	748	669	16.64	693	17.14	-0.50
	Unchahar I TPS (2*210)	420	350	330	298	6.93	289	6.86	0.06
	Unchahar II TPS (2*210)	420	387	335	309	6.86	286	6.81	0.05
	Unchahar III TPS (1*220)	210	202	165	151	3.64	152	3.64	0.00
	ISTPP (Jhajjar) (3*500)	1500	950	304	305	6.70	279	6.84	-0.14
	Dadri GPs (4*130.19+2*154.51)	830	801	538	488	11.35	473	11.54	-0.19
	Anta GPs (3*88.71+1*153.2)	419	414	40	0	0.50	21	0.44	0.07
	Auraiya GPs (4*111.19+2*109.30)	663	493	285	303	6.62	276	6.73	-0.11
	Dadri Solar	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar	10	1	0	0	0.03	1	0.03	0.00
	Singrauli Solar	15	3	0	0	0.06	3	0.06	0.00
	<b>KHEP</b>	<b>800</b>	<b>655</b>	<b>654</b>	<b>0</b>	<b>2.50</b>	<b>104</b>	<b>2.30</b>	<b>0.20</b>
<b>Sub Total (A)</b>	<b>12112</b>	<b>10714</b>	<b>8716</b>	<b>7320</b>	<b>177</b>	<b>7375</b>	<b>176</b>	<b>1</b>	
B. NPC	NAPS (2*220)	440	407	440	453	9.77	407	9.77	0.00
	RAPS- B (2*220)	440	380	424	425	9.16	382	9.12	0.04
	RAPS- C (2*220)	440	425	448	452	9.72	405	10.20	-0.48
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1212</b>	<b>1312</b>	<b>1330</b>	<b>28.65</b>	<b>1194</b>	<b>29.09</b>	<b>-0.44</b>
C. NHPC	Chamera I HPS (3*180)	540	534	546	0	2.47	103	2.20	0.27
	Chamera II HPS (3*100)	300	300	303	0	1.50	62	1.31	0.19
	Chamera III HPS (3*77)	231	231	230	0	0.72	30	0.69	0.03
	Bairasuli HPS(3*60)	180	182	182	0	0.66	28	0.66	0.00
	Salal-HPS (6*115)	690	105	305	70	3.05	127	2.52	0.53
	Tanakpur-HPS (3*40)	94	15	24	14	0.41	17	0.36	0.06
	Uri-I HPS (4*120)	480	271	337	246	6.89	287	6.52	0.37
	Uri-II HPS (4*60)	240	165	156	164	4.12	172	3.97	0.15
	Dhauliganga-HPS (4*70)	280	210	217	0	0.68	28	0.60	0.08
	Dulhasi-HPS (3*130)	390	387	404	0	2.98	124	2.70	0.28
	Sewa-II HPS (3*40)	120	119	128	0	0.55	23	0.50	0.05
	Parbati 3 (4*130)	520	130	132	0	0.42	18	0.39	0.03
<b>Sub Total (C)</b>	<b>4065</b>	<b>2648</b>	<b>2964</b>	<b>494</b>	<b>24</b>	<b>1018</b>	<b>22</b>	<b>2</b>	
D.SJVNL	NJPC (6*250)	1500	1605	1605	0	6.45	269	6.30	0.15
	Rampur HEP (6*68.67)	412	375	375	0	1.79	74	1.70	0.08
<b>Sub Total (D)</b>	<b>1912</b>	<b>1980</b>	<b>1980</b>	<b>0</b>	<b>8.24</b>	<b>343</b>	<b>8.01</b>	<b>0.23</b>	
E. THDC	Tehri HPS (4*250)	1000	534	520	0	7.22	301	7.20	0.02
	Koteshwar HPS (4*100)	400	130	392	91	3.19	133	3.13	0.06
<b>Sub Total (E)</b>	<b>1400</b>	<b>664</b>	<b>912</b>	<b>91</b>	<b>10.41</b>	<b>434</b>	<b>10.33</b>	<b>0.08</b>	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	740	1281	502	17.76	740	17.75	0.00
	Dehar HPS (6*165)	990	148	495	0	3.59	149	3.56	0.02
	Pong HPS (6*66)	396	138	280	56	3.30	138	3.32	-0.02
<b>Sub Total (F)</b>	<b>2765</b>	<b>1026</b>	<b>2056</b>	<b>558</b>	<b>24.64</b>	<b>1027</b>	<b>24.63</b>	<b>0.01</b>	
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.42	17	0.40	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	625	0	3.38	141	3.60	-0.22
	Malana Stg-II HPS (2*50)	100	0	0	0	0.20	8	0.18	0.01
	Shree Cement TPS (2*150)	300	0	295	294	7.06	294	7.07	-0.01
	Budhi HPS(IPP) (2*35)	70	0	0	0	0.15	6	0.14	0.01
	Sub Total (G)	1662	0	920	294	11.20	467	11.39	-0.20
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>18244</b>	<b>18860</b>	<b>10087</b>	<b>284.58</b>	<b>11857</b>	<b>282.08</b>	<b>2.50</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	3.63	151
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.03	-1
	Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.08	-3
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	920	660	25.95	1081
	Talwandi Saboo (2*660)	1320	308	308	9.05	377
	<b>Thermal (Total)</b>	<b>5360</b>	<b>1438</b>	<b>1128</b>	<b>38.53</b>	<b>1605</b>
	Total Hydro	1000	266	277	6.78	282
	<b>Total Punjab</b>	<b>6360</b>	<b>1704</b>	<b>1405</b>	<b>45.30</b>	<b>1888</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	549	451	10.96	457
Faridabad GPS (NTPC)		432	0	0	0.00	0
RGTPP (Khedar) (IPP) (2*600)		1200	945	788	20.45	852
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>1494</b>	<b>1239</b>	<b>31.41</b>	<b>1309</b>
Total Hydro		62	8	21	0.30	13
<b>Total Haryana</b>		<b>5006</b>	<b>1502</b>	<b>1260</b>	<b>31.71</b>	<b>1321</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	860	865	21.83
	suratgarh TPS (6*250)	1500	763	755	19.45	810
	Chabra TPS (4*250)	1000	572	549	14.54	606
	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	42	45	1.03	43
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	96	63	2.01	84
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	731	956	22.18	924
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	862	967	21.44	893
	Kawai(Adani) (2*660)	1320	953	1175	26.70	1112
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4879</b>	<b>5375</b>	<b>129</b>	<b>5382</b>
	Total Hydro	550	163	185	4.67	195
	Wind power	3214	68	48	2.16	90
	Biomass	99	29	29	0.70	29
	Solar	730	4	0	0.22	9
	Renewable/Others (Total)	4043	101	77	3.07	128
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5143</b>	<b>5637</b>	<b>136.92</b>	<b>5705</b>
	UP	Anpara TPS (3*210+2*500)	1630	1233	879	24.34
Obra TPS (2*50+2*94+5*200)		1194	301	296	7.15	298
Paricha TPS (2*110+2*220+2*250)		1140	716	687	16.96	707
Panki TPS (2*105)		210	68	77	1.64	68
Harduaagan TPS (1*60+1*105+2*250)		665	328	322	7.76	323
Tanda TPS (NTPC) (4*110)		440	374	372	8.73	364
Roza TPS (IPP) (4*300)		1200	828	833	18.46	769
Anpara-C (IPP) (2*600)		1200	1074	1080	25.90	1075
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0
Anpara-D(1*500)		500	0	0	0.00	0
Lalitpur TPS(2*660)		1320	0	0	0.00	0
Bara(2*660)		1320	0	0	0.00	0
<b>Thermal (Total)</b>		<b>11269</b>	<b>4922</b>	<b>4546</b>	<b>111</b>	<b>4618</b>
Vishnuparyag HPS (IPP)(4*110)		440	0	0	0.00	0
Alakanada(4*82.5)		330	85	0	0.88	37
Other Hydro		527	2	131	1.22	51
Cogeneration		981	700	700	16.80	700
<b>Total UP</b>		<b>13547</b>	<b>5709</b>	<b>5377</b>	<b>130</b>	<b>5406</b>
Uttarakhand	Total Hydro	1398	400	251	8.20	342
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>400</b>	<b>251</b>	<b>8.20</b>	<b>342</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	36	0.89	37
	Praagati Gas Turbine (2x104+ 1x122)	330	0	0	-0.01	0
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	255	252	6.06	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.39	141
	<b>Thermal (Total)</b>	<b>2917</b>	<b>456</b>	<b>453</b>	<b>10.31</b>	<b>430</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>456</b>	<b>453</b>	<b>10.31</b>	<b>430</b>
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.83	35
	Malana HPS (IPP) (2*43)	86	0	0	0.21	9
	Other Hydro	878	145	103	3.43	143
	<b>Total HP</b>	<b>1264</b>	<b>145</b>	<b>103</b>	<b>4.47</b>	<b>186</b>
J & K	Baglihar HPS (IPP) (3*150)	450	389	143	3.27	136
	Other Hydro/IPP	560	138	123	2.76	115
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>527</b>	<b>266</b>	<b>6.03</b>	<b>251</b>
<b>Total State Control Area Generation</b>		<b>45161</b>	<b>15586</b>	<b>14752</b>	<b>372.68</b>	<b>15528</b>
<b>J. Net Inter Regional Exchange</b> (Import (+ve)/Export (-ve))			<b>5931</b>	<b>7122</b>	<b>176.78</b>	<b>7366</b>
<b>Total Regional Availability(Gross)</b>		<b>70398</b>	<b>40377</b>	<b>31961</b>	<b>834.03</b>	<b>34751</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	9191	1143	74.23	3093
State Control Area Hydro	6581	1596	1234	33	1356
<b>Total Regional Hydro</b>	<b>18815</b>	<b>10787</b>	<b>2377</b>	<b>106.77</b>	<b>4449</b>

**V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]**

Element	Peak(19:00 Hrs)		Off Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	250	-250	-250	250	250	250	0.96	3.42	-2.46
765 KV Gwalior-Agra (D/C)	2213	2820	2820	3395	0	0	69.36	0.00	69.36
400 KV Zerda-Kankroli	-136	-146	-146	0	0	201	0.00	3.00	-3.00
400 KV Zerda-Bhimnal	-51	-60	-60	78	0	136	0.00	1.01	-1.01
220 KV Auraiya-Malanpur	-83	-63	-63	0	0	92	0.00	1.23	-1.23
220 KV Badod-Kota/Morak	-4	-1	-1	38	0	25	0.28	0.00	0.28
Mundra-Mohindergarh(HVDC Bipole)	2497	2495	2495	2519	0	0	60.46	0.00	60.46
400 KV Vindhychal - Rihand	0	0	0	0	0	0	0.00	0.00	0.00
765 KV Phagi-Gwalior (D/C)	827	914	914	586	0	0	23.69	0.00	23.69
<b>Sub Total WR</b>	<b>5513</b>	<b>5709</b>					<b>154.74</b>	<b>8.66</b>	<b>146.08</b>
Pusauli Bypass/HVDC	400	400	400	400	0	0	9.03	0.00	9.03
400 KV MZP- GKP (D/C)	-490	-272	-272	0	0	548	0.00	7.40	-7.40
400 KV Patna-Balia(D/C) X 2	536	702	702	808	0	0	15.81	0.00	15.81
400 KV B' Sharif-Balia (D/C)	-297	-122	-122	0	0	297	0.00	3.26	-3.26
765 KV Gaya-Balia	-90	176	176	227	0	90	1.85	0.00	1.85
765 KV Gaya-Fatehpur	0	0	0	0	0	0	0.00	0.00	0.00
220 KV Pusauli-Sahupuri	0	0	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-26	-10	-10	0	0	32	0.00	0.35	-0.35
132 KV Garhwa-Rihand	0	0	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-131	-45	-45	199	0	138	0.65	0.00	0.65
400 KV Barh -GKP (D/C)	516	584	584	626	0	0	13.39	0.00	13.39
<b>Sub Total ER</b>	<b>418</b>	<b>1413</b>					<b>41.69</b>	<b>11.00</b>	<b>30.69</b>
+/- 800 KV BiswanathCharialli-Agra	0	0	0	0	0	0	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>5931</b>	<b>7122</b>					<b>196.43</b>	<b>19.65</b>	<b>176.78</b>

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

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)			Power Exchange Shdli (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR	
32.89	0.17	33.06	0.05	-8.00	0.04	31.35	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	
33.15	141.33	174.48	30.69	146.08	176.78	-2.46	4.76	2.30	

**V(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]**

Element	Peak(19:00 Hrs)		Off Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-29	-31	-31	0	0	32	0	0	-0.42

**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	0.87	15.30	64.69	72.16	9.99	2.60	0.37	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)			
50.26	13.04	49.73	11.20	49.97	0.058	0.071	50.22	49.92	27.84

**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	405	00:58	399	15:57	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	16:08	405	19:03	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	02:20	397	19:11	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	02:49	402	19:08	0.0	0.0	0.0	0.0	0.0
Dadr	400	424	02:24	404	12:17	0.0	0.0	12.5	0.0	12.5
Ballabgarh	400	430	02:25	409	12:14	0.0	0.0	35.7	0.0	35.7
Bawana	400	428	02:28	405	12:17	0.0	0.0	26.0	0.0	26.0
Bassi	400	422	16:17	400	06:12	0.0	0.0	1.7	0.0	1.7
Hissar	400	421	21:26	400	12:17	0.0	0.0	0.7	0.0	0.7
Moga	400	422	21:11	403	12:14	0.0	0.0	3.1	0.0	3.1
Abdullapur	400	427	02:05	404	12:17	0.0	0.0	20.4	0.0	20.4
Nalagarh	400	434	01:59	411	12:17	0.0	0.0	62.8	13.7	62.8
Kishenpur	400	426	13:01	401	06:43	0.0	0.0	6.3	0.0	6.3
Wagoora	400	408	13:01	376	06:59	5.9	52.9	0.0	0.0	5.9
Amritsar	400	431	01:57	408	12:13	0.0	0.0	43.6	3.3	43.6
Kashipur	400	419	13:03	410	19:02	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	427	00:13	404	12:17	0.0	0.0	24.5	0.0	24.5
Rishkesh	400	412	21:33	385	19:09	0.0	3.9	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	770	13:04	738	19:06	0.0	0.7	0.0	0.0	0.0
Balia	765	783	02:26	760	19:03	0.0	0.0	0.0	0.0	0.0
Moga	765	802	21:29	766	12:14	0.0	0.0	0.8	0.0	0.8
Agra	765	786	13:04	755	11:21	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0	0.0
Unnao	765	768	02:25	741	18:57	0.0	0.5	0.0	0.0	0.0
Lucknow	765	788	02:20	760	19:09	0.0	0.0	0.0	0.0	0.0
Meerut	765	808	21:29	770	12:18	0.0	0.0	13.6	0.0	13.6
Jhatikara	765	0	00:00	9999	00:00	0.0	0.0	7.7	0.0	7.7
Bareilly 765 kV	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0	0.0
Anta	765	778	21:22	762	00:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	784	18:15	749	17:11	0.0	0.0	0.0	0.0	0.0

**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	483.85	552.50	481.83	503.43	158.18	607.00
Pong	426.72	384.05	397.45	168.56	401.06	503.43	53.24	244.60
Tehri	829.79	740.04	766.60	180.91	781.85	345.94	48.68	227.00
Koteshwar	612.50	598.50	610.22	4.68	610.97	4.95	227.00	209.90
Chamera-I	760.00	748.75	754.91	0.00	0.00	0.00	60.93	67.09
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	496.68	0.00	505.01	3.25	53.91	0.00

\* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-45	313	0	-900	286	0	-3.62	7.43	3.81
Delhi	-762	-282	0	-732	289	0	-16.78	3.20	-13.58
Haryana	-180	44	0	-205	307	0	-5.61	6.16	0.55
HP	30	241	0	377	-152	0	8.04	-0.42	7.63
J&K	512	-14	0	599	4	0	11.34	-0.67	10.67
CHD	0	0	0	0	0	0	0.00	-0.10	-0.10
Rajasthan	-7	668	3	-7	652	3	0.60	14.95	15.55
UP	129	0	0	37	0	0	-5.11	0.00	-5.11
Uttarakhand	194	167	0	194	367	0	4.76	5.74	10.51
<b>Total</b>	<b>-129</b>	<b>1138</b>	<b>3</b>	<b>-638</b>	<b>1752</b>	<b>3</b>	<b>-6.39</b>	<b>36.31</b>	<b>29.93</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	5	-900	359	214	0	0
Delhi	-648	-762	575	-317	0	0
Haryana	-180	-408	320	-119	0	0
HP	574	30	241	-679	0	0
J&K	623	398	11	-191	0	0
CHD	0	0	0	-20	0	0
Rajasthan	186	-7	672	555	3	2
UP	175	-558	0	0	0	0
Uttarakhand	222	194	402	144	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	1.39%
ER	0.00%
Simultaneous	3.13%

(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 09.03.2016 :**

Normal

**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 :**