

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसई की पूर्ण स्वामित्व प्राप्त सख्यक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 23.02.2016

Date of Reporting : 24.02.2016



### 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
36447	1060	37507	50.09	29309	1359	30668	50.12	821.7	44.83

\* 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	35.85	7.81		43.66	56.46	56.99	0.53	100.65	0.00
Haryana	40.51	0.35		40.87	71.58	70.31	-1.27	111.18	0.00
Rajasthan	130.56	4.38	1.45	136.38	72.29	75.38	3.09	211.77	0.00
Delhi	14.21			14.21	42.58	42.65	0.07	56.86	0.00
UP	131.57	1.76		133.33	101.14	102.28	1.14	235.61	34.23
Uttarakhand		9.81		9.81	22.03	23.14	1.11	32.95	0.00
HP		3.93		3.93	21.90	21.10	-0.80	25.03	0.24
J & K		7.72	0.00	7.72	34.43	36.49	2.06	44.22	10.37
Chandigarh				0.00	3.47	3.43	0.27	3.43	0.00
<b>Total</b>	<b>352.70</b>	<b>35.77</b>	<b>1.45</b>	<b>389.92</b>	<b>425.88</b>	<b>431.77</b>	<b>6.21</b>	<b>821.69</b>	<b>44.83</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	4926	0	61	-292	2923	0	38	212	5175
Haryana	5324	0	-382	-320	3035	0	-73	-586	5519
Rajasthan	8367	0	151	708	8556	0	224	703	10133
Delhi	2689	0	-188	-706	1450	0	11	-1581	3153
UP	10237	595	-86	25	9366	1025	178	125	11110
Uttarakhand	1726	0	101	453	1164	0	128	285	1790
HP	1134	0	-120	254	830	0	81	310	1401
J&K	1861	465	1	595	1895	334	178	598	2192
Chandigarh	183	0	15	0	90	0	2	-30	189
<b>Total</b>	<b>36447</b>	<b>1060</b>	<b>-447</b>	<b>717</b>	<b>29309</b>	<b>1359</b>	<b>767</b>	<b>36</b>	<b>38627</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 :

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	1890	1950	1882	44.75	1865	44.48	0.27
	Rihand I STPS (2*500)	1000	824	810	675	17.98	749	17.37	0.61
	Rihand II STPS (2*500)	1000	932	839	778	21.06	878	20.23	0.83
	Rihand III STPS (2*500)	1000	974	733	851	21.30	888	20.83	0.47
	Dadri I STPS (4*210)	840	815	608	595	13.23	551	13.74	-0.51
	Dadri II STPS (2*490)	980	980	767	701	16.68	695	17.29	-0.61
	Unchahar I TPS (2*210)	420	406	306	309	7.84	327	8.02	-0.17
	Unchahar II TPS (2*210)	420	404	308	307	7.13	297	7.09	0.03
	Unchahar III TPS (1*220)	210	202	154	154	3.48	145	3.50	-0.01
	ISTPP (Jhajhar) (3*500)	1500	950	642	605	14.36	598	14.40	-0.05
	Dadri GPS (4*130.19+2*154.51)	830	817	343	373	8.50	354	8.75	-0.25
	Anta GPS (3*88.71+1*153.2)	419	415	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	474	304	308	6.34	264	6.63	-0.30
	Dadri Solar	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar	10	2	0	0	0.04	2	0.04	0.00
	Singrauli Solar	15	2	0	0	0.07	3	0.05	0.02
	KHEP	800	435	0	0	2.56	107	2.30	0.26
<b>Sub Total (A)</b>	<b>12112</b>	<b>10521</b>	<b>7764</b>	<b>7538</b>	<b>185</b>	<b>7722</b>	<b>185</b>	<b>1</b>	
B. NPC	NAPS (2*220)	440	407	445	452	9.88	412	9.77	0.11
	RAPS- B (2*220)	440	385	424	435	9.27	386	9.24	0.03
	RAPS- C (2*220)	440	425	455	462	9.85	410	10.20	-0.35
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1217</b>	<b>1324</b>	<b>1349</b>	<b>28.99</b>	<b>1208</b>	<b>29.21</b>	<b>-0.21</b>
	<b>Sub Total (A+B)</b>	<b>13432</b>	<b>11738</b>	<b>9088</b>	<b>8887</b>	<b>213.98</b>	<b>8930</b>	<b>214.21</b>	<b>-0.23</b>
C. NHPC	Chamera I HPS (3*180)	540	360	368	0	3.49	145	3.10	0.39
	Chamera II HPS (3*100)	300	200	210	0	1.20	50	1.10	0.11
	Chamera III HPS (3*77)	231	190	160	0	0.40	17	0.57	-0.17
	Bairasuli HPS(3*60)	180	182	183	0	0.82	34	0.80	0.02
	Salal-HPS (6*115)	690	189	345	229	5.36	223	4.48	0.88
	Tanakpur-HPS (3*40)	94	16	32	31	0.46	19	0.38	0.08
	Uri-I HPS (4*120)	480	339	358	354	8.63	360	8.12	0.51
	Uri-II HPS (4*60)	240	175	178	178	4.23	176	4.20	0.03
	Dhauliganga-HPS (4*70)	280	280	287	0	0.73	31	0.63	0.10
	Dulhasi-HPS (3*130)	390	387	400	0	3.83	160	3.47	0.36
	Sewa-II HPS (3*40)	120	119	127	0	0.80	33	0.75	0.05
	Parbati 3 (4*130)	520	130	133	0	0.41	17	0.39	0.02
	<b>Sub Total (C)</b>	<b>4065</b>	<b>2567</b>	<b>2780</b>	<b>792</b>	<b>30</b>	<b>1266</b>	<b>28</b>	<b>2</b>
D.SJVNL	NJPC (6*250)	1500	1605	1602	0	6.46	269	6.18	0.28
	Rampur HEP (6*68.67)	412	433	424	0	1.80	75	1.72	0.08
	<b>Sub Total (D)</b>	<b>1912</b>	<b>2038</b>	<b>2026</b>	<b>0</b>	<b>8.25</b>	<b>344</b>	<b>7.89</b>	<b>0.36</b>
E. THDC	Tehri HPS (4*250)	1000	760	759	0	7.46	311	7.40	0.06
	Koteshwar HPS (4*100)	400	130	180	91	3.20	133	3.13	0.07
	<b>Sub Total (E)</b>	<b>1400</b>	<b>890</b>	<b>939</b>	<b>91</b>	<b>10.66</b>	<b>444</b>	<b>10.53</b>	<b>0.13</b>
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	633	1184	367	15.42	643	15.18	0.24
	Dehar HPS (6*165)	990	142	495	0	3.40	142	3.40	0.00
	Pong HPS (6*66)	396	221	295	118	5.10	213	5.30	-0.19
	<b>Sub Total (F)</b>	<b>2765</b>	<b>995</b>	<b>1974</b>	<b>485</b>	<b>23.92</b>	<b>997</b>	<b>23.88</b>	<b>0.05</b>
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.40	17	0.38	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.38	141	3.60	-0.22
	Malana Stg-II HPS (2*50)	100	0	0	0	0.16	6	0.13	0.02
	Shree Cement TPS (2*150)	300	0	293	295	7.01	292	7.08	-0.08
	Budhi HPS(IPP) (2*35)	70	0	35	0	0.14	6	0.14	0.00
	<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>958</b>	<b>295</b>	<b>11.08</b>	<b>462</b>	<b>11.34</b>	<b>-0.26</b>
	<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>18228</b>	<b>17765</b>	<b>10550</b>	<b>298.64</b>	<b>12443</b>	<b>295.57</b>	<b>3.07</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	3.78	158
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.02	1
	Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	0.07	3
	Goindwal(GVK)	0	0	0	0.00	0
	Rajpura (2*700)	1400	1073	706	24.02	1001
	Talwandi Saboo (2*660)	1320	355	343	7.96	332
	<b>Thermal (Total)</b>	<b>5360</b>	<b>1638</b>	<b>1209</b>	<b>35.85</b>	<b>1494</b>
	Total Hydro	1000	294	293	7.81	325
	<b>Total Punjab</b>	<b>6360</b>	<b>1932</b>	<b>1502</b>	<b>43.66</b>	<b>1819</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	229	223	5.17
DCRTPP (Yamuna nagar) (2*300)		600	463	456	11.32	472
Faridabad GPS (NTPC)		432	198	163	4.29	179
RGTPP (Khedar) (IPP) (2*600)		1200	453	356	10.04	418
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	485	372	9.69	404
<b>Thermal (Total)</b>		<b>4944</b>	<b>1828</b>	<b>1570</b>	<b>40.51</b>	<b>1688</b>
Total Hydro		62	15	15	0.35	15
<b>Total Haryana</b>		<b>5006</b>	<b>1843</b>	<b>1585</b>	<b>40.87</b>	<b>1703</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	857	925	22.03
	suratgarh TPS (6*250)	1500	563	684	15.08	628
	Chabra TPS (4*250)	1000	534	603	15.32	639
	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	82	88	2.09	87
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	90	91	2.01	84
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwst LTPS (IPP) (8*135)	1080	743	834	20.23	843
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	917	1070	25.79	1075
	Kawai(Adani) (2*660)	1320	950	1167	28.01	1167
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4736</b>	<b>5462</b>	<b>131</b>	<b>5440</b>
	Total Hydro	550	179	153	4.38	182
	Wind power	3214	22	7	0.80	33
	Biomass	99	14	14	0.33	14
	Solar	730	0	0	0.32	13
	Renewable/Others (Total)	4043	36	21	1.45	60
	<b>Total Rajasthan</b>	<b>13469</b>	<b>4951</b>	<b>5636</b>	<b>136.38</b>	<b>5683</b>
	UP	Anpara TPS (3*210+2*500)	1630	1211	1378	29.80
Obra TPS (2*50+2*94+5*200)		1194	387	388	9.10	379
Paricha TPS (2*110+2*220+2*250)		1140	768	771	19.00	792
Panki TPS (2*105)		210	0	0	0.00	0
Harduaaganj TPS (1*60+1*105+2*250)		665	302	310	7.40	308
Tanda TPS (NTPC) (4*110)		440	286	297	7.53	314
Roza TPS (IPP) (4*300)		1200	819	639	18.59	775
Anpara-C (IPP) (2*600)		1200	533	540	12.83	534
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0
Anpara-D(1*500)		500	0	0	0.27	11
Lalitpur TPS(2*660)		1320	474	0	0.00	0
Bara(2*660)		1320	474	0	7.85	327
<b>Thermal (Total)</b>		<b>11269</b>	<b>4780</b>	<b>4323</b>	<b>112</b>	<b>4682</b>
Vishnuparyag HPS (IPP)(4*110)		440	0	0	0.00	0
Alakanada(4*82.5)		330	0	0	0.00	0
Other Hydro		527	115	44	1.76	74
Cogeneration		981	800	800	19.20	800
<b>Total UP</b>	<b>13547</b>	<b>5695</b>	<b>5167</b>	<b>133</b>	<b>5555</b>	
Uttarakhand	Total Hydro	1398	603	253	9.81	409
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>603</b>	<b>253</b>	<b>9.81</b>	<b>409</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	39	39	0.91	38
	Praagati Gas Turbine (2x104+ 1x122)	330	84	141	3.13	130
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	251	6.04	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	162	160	4.13	172
	<b>Thermal (Total)</b>	<b>2917</b>	<b>535</b>	<b>591</b>	<b>14.21</b>	<b>592</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>535</b>	<b>591</b>	<b>14.21</b>	<b>592</b>
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.00	0
	Malana HPS (IPP) (2*43)	86	0	0	0.26	11
	Other Hydro	878	182	108	3.67	153
	<b>Total HP</b>	<b>1264</b>	<b>182</b>	<b>108</b>	<b>3.93</b>	<b>164</b>
J & K	Baglihar HPS (IPP) (3*150)	450	231	252	5.76	240
	Other Hydro/IPP	560	107	63	1.97	82
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>338</b>	<b>315</b>	<b>7.72</b>	<b>322</b>
<b>Total State Control Area Generation</b>		<b>45161</b>	<b>16079</b>	<b>15157</b>	<b>389.92</b>	<b>16247</b>
<b>J. Net Inter Regional Exchange</b> (Import (+ve)/Export (-ve))			<b>6209</b>	<b>4587</b>	<b>148.78</b>	<b>6199</b>
<b>Total Regional Availability(Gross)</b>		<b>70398</b>	<b>40053</b>	<b>30294</b>	<b>837.34</b>	<b>34889</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	8348	1368	79.71	3321
State Control Area Hydro	6581	1726	1181	36	1490
<b>Total Regional Hydro</b>	<b>18815</b>	<b>10074</b>	<b>2549</b>	<b>115.48</b>	<b>4812</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)	-300	-500	0	500	0.00	10.71	-10.71	
765 KV Gwalior-Agra (D/C)	2718	2421	3251	0	66.46	0.00	66.46		
400 KV Zarda-Kankroli	0	-146	49	154	0.00	1.33	-1.33		
400 KV Zarda-Bhinmal	67	-50	189	77	0.94	0.00	0.94		
220 KV Auraiya-Malanpur	-197	-101	0	245	0.00	2.57	-2.57		
220 KV Badod-Kota/Morak	15	-8	47	8	0.47	0.00	0.47		
Mundra-Mohindergarh(HVDC Bipole)	2203	1902	2213	0	50.54	0.00	50.54		
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Phagi-Gwalior (D/C)	1007	619	1088	0	20.67	0.00	20.67		
<b>Sub Total WR</b>	<b>5513</b>	<b>4137</b>			<b>139.07</b>	<b>14.60</b>	<b>124.47</b>		
Pusauli Bypass/HVDC	200	200	200	0	4.49	0.00	4.49		
400 KV MZP- GKP (D/C)	-376	-396	0	456	0.00	7.17	-7.17		
400 KV Patna-Balia(D/C) X 2	329	365	591	0	11.01	0.00	11.01		
400 KV B'Sharif-Balia (D/C)	-123	-118	60	127	0.00	1.32	-1.32		
765 KV Gaya-Balia	139	155	264	0	1.98	0.00	1.98		
765 KV Gaya-Fatehpur	104	-18	307	18	3.60	0.00	3.60		
220 KV Pusauli-Sahupuri	205	144	205	0	3.35	0.00	3.35		
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96		
132 KV Son Ngr-Rihand	-26	-22	0	30	0.00	0.51	-0.51		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-144	-224	177	224	0.00	1.67	-1.67		
400 KV Barh -GKP (D/C)	388	364	500	0	9.60	0.00	9.60		
<b>Sub Total ER</b>	<b>696</b>	<b>450</b>			<b>34.98</b>	<b>10.66</b>	<b>24.32</b>		
+/- 800 KV BiswanathCharialli-Agra	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>6209</b>	<b>4587</b>			<b>174.05</b>	<b>25.27</b>	<b>148.78</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
32.41	0.23	32.65	1.73	-2.11	0.07	19.92	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
34.45	120.82	155.26	24.32	124.47	148.78	-10.13	3.65	-6.48

**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	-30	-31	0	31	0	1	0	

**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	0.74	15.07	61.61	69.72	10.66	4.32	0.25	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum	Minimum		MAX (Hz)				MIN (Hz)		
Freq	Time	Freq	Time	Hz	Index				
50.26	18.03	49.75	5.52	49.98	0.059	0.074	50.17	49.89	30.28

**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	01:03	400	06:37	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	04:01	403	22:07	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	01:00	402	12:06	0.0	0.0	0.0	0.0	0.0
Kanpur	400	421	04:01	404	19:16	0.0	0.0	0.3	0.0	0.3
Dadr	400	423	01:02	406	11:39	0.0	0.0	15.9	0.0	15.9
Ballabgarh	400	431	04:02	410	11:38	0.0	0.0	36.7	0.2	36.7
Bawana	400	429	00:58	408	12:17	0.0	0.0	35.8	0.0	35.8
Bassi	400	423	21:30	396	06:10	0.0	0.0	3.4	0.0	3.4
Hissar	400	422	21:40	398	11:44	0.0	0.0	0.4	0.0	0.4
Moga	400	424	21:40	401	11:42	0.0	0.0	8.5	0.0	8.5
Abdullapur	400	422	01:00	411	22:08	0.0	0.0	5.0	0.0	5.0
Nalagarh	400	434	00:58	404	11:45	0.0	0.0	56.8	18.1	56.8
Kishenpur	400	422	04:00	400	07:09	0.0	0.0	1.5	0.0	1.5
Wagoora	400	403	13:01	375	07:11	12.9	47.6	0.0	0.0	12.9
Amritsar	400	429	00:59	404	11:43	0.0	0.0	35.8	0.0	35.8
Kashipur	400	421	00:46	411	12:21	0.0	0.0	4.5	0.0	4.5
Hamirpur	400	425	21:55	407	08:33	0.0	0.0	40.8	0.0	40.8
Rishkesh	400	415	01:00	390	18:51	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 Deviation Index (% of Time)
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	773	01:00	743	05:57	0.0	0.0	0.0	0.0	0.0
Balia	765	767	04:00	742	10:11	0.0	0.0	0.0	0.0	0.0
Moga	765	806	00:59	766	11:44	0.0	0.0	8.3	0.0	8.3
Agra	765	790	21:55	757	05:54	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	804	01:00	769	11:42	0.0	0.0	3.7	0.0	3.7
Unnao	765	772	04:02	743	19:18	0.0	0.0	0.0	0.0	0.0
Lucknow	765	787	04:04	758	10:12	0.0	0.0	0.0	0.0	0.0
Meerut	765	815	01:00	772	12:18	0.0	0.0	29.7	0.0	29.7
Jhatikara	765					0.0	0.0	24.1	0.0	24.1
Bareilly 765 kV	765	790	00:59	757	12:17	0.0	0.0	0.0	0.0	0.0
Anta	765	780	18:04	756	05:55	0.0	0.0	0.0	0.0	0.0
Phagi	765	786	18:04	753	05:53	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	489.41	719.44	483.83	552.50	166.84	497.58
Pong	426.72	384.05	399.88	216.87	399.28	203.01	33.02	366.02
Tehri	829.79	740.04	775.75	271.00	786.50	405.00	60.89	224.00
Koteshwar	612.50	598.50	611.29	4.95	610.35	4.69	224.00	210.57
Chamera-I	760.00	748.75	757.10	0.00	0.00	0.00	71.15	94.02
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	496.03	0.68	500.98	3.14	55.92	32.32

\* 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	-96	308	0	-576	284	0	-3.58	7.47	3.89
Delhi	-1039	-542	0	-628	-78	0	-17.89	-3.93	-21.82
Haryana	-328	-257	0	-547	228	0	-10.77	3.52	-7.25
HP	225	85	0	351	-97	0	11.17	-0.69	10.48
J&K	714	-116	0	609	-14	0	15.21	-1.69	13.51
CHD	-30	0	0	0	0	0	-0.24	-0.06	-0.30
Rajasthan	-7	707	3	-7	712	3	8.48	15.95	24.43
UP	125	0	0	25	0	0	-6.89	0.00	-6.89
Uttarakhand	193	92	0	193	260	0	4.74	3.92	8.66
<b>Total</b>	<b>-244</b>	<b>277</b>	<b>3</b>	<b>-580</b>	<b>1294</b>	<b>3</b>	<b>0.23</b>	<b>24.50</b>	<b>24.72</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-68	-576	338	277	0	0
Delhi	-502	-1069	148	-542	0	0
Haryana	-328	-557	240	-382	0	0
HP	716	225	194	-592	0	0
J&K	714	579	-14	-166	0	0
CHD	0	-30	0	-51	0	0
Rajasthan	843	-7	720	550	3	3
UP	165	-732	0	0	0	0
Uttarakhand	221	193	375	53	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 23.02.2016 :**

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 :**