

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सख्यक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 20.02.2016  
Date of Reporting : 21.02.2016



### 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
36191	2393	38584	50.09	28582	906	29487	50.12	786.7	44.57

\* 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	29.21	7.11		36.32	50.20	48.87	-1.32	85.19	0.00
Haryana	38.44	0.28		38.72	71.00	69.04	-1.96	107.76	0.00
Rajasthan	119.86	4.39	5.82	130.07	73.84	76.43	2.79	206.50	0.00
Delhi	14.71			14.71	42.95	41.54	-1.41	56.25	0.01
UP	120.11	4.10		124.21	106.00	108.13	2.13	232.34	36.01
Uttarakhand		9.73		9.73	21.20	25.06	3.86	34.79	0.00
HP		3.65		3.65	22.01	20.65	-1.36	24.29	0.00
J & K		5.26	0.00	5.26	34.79	30.96	-3.83	36.21	8.55
Chandigarh				0.00	3.38	3.37	0.27	3.37	0.00
<b>Total</b>	<b>322.33</b>	<b>34.50</b>	<b>5.82</b>	<b>362.65</b>	<b>425.14</b>	<b>424.04</b>	<b>-0.82</b>	<b>786.69</b>	<b>44.57</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	4247	0	109	-36	2558	0	-266	221	4343
Haryana	6041	0	-12	-42	3149	0	34	-386	6041
Rajasthan	8454	0	133	644	8184	0	29	652	9694
Delhi	2573	5	-414	-701	1439	0	30	-1589	3086
UP	9996	1920	233	-603	10060	710	159	130	10712
Uttarakhand	1740	0	-17	-425	1191	0	129	305	1824
HP	1088	0	-153	318	802	0	50	353	1274
J&K	1873	468	-89	840	1109	196	-385	724	1911
Chandigarh	179	0	-13	-15	90	0	5	-30	185
<b>Total</b>	<b>36191</b>	<b>2393</b>	<b>-223</b>	<b>830</b>	<b>28582</b>	<b>906</b>	<b>-215</b>	<b>379</b>	<b>37842</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	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	2007	1643	43.23	1801	43.17	0.06
	Rihand I STPS (2*500)	1000	846	695	677	17.25	719	16.96	0.30
	Rihand II STPS (2*500)	1000	958	1023	719	19.63	818	19.19	0.45
	Rihand III STPS (2*500)	1000	883	1009	743	18.59	774	18.44	0.14
	Dadri I STPS (4*210)	840	815	556	556	13.51	563	13.82	-0.31
	Dadri II STPS (2*490)	980	980	665	681	16.66	694	17.16	-0.50
	Unchahar I TPS (2*210)	420	406	379	323	7.83	326	7.94	-0.11
	Unchahar II TPS (2*210)	420	404	355	318	7.18	299	7.21	-0.03
	Unchahar III TPS (1*220)	210	202	157	154	3.57	149	3.69	-0.12
	ISTPP (Jhajhar) (3*500)	1500	950	604	589	13.55	565	13.68	-0.13
	Dadri GPS (4*130.19+2*154.51)	830	816	479	495	10.98	458	11.35	-0.37
	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	655	269	306	6.54	273	6.81	-0.27
	Dadri Solar	5	1	0	0	0.01	0	0.02	-0.01
	Unchahar Solar	10	1	0	0	0.01	1	0.03	-0.01
	Singrauli Solar	15	2	0	0	0.04	2	0.05	-0.01
	<b>Sub Total (A)</b>	<b>12112</b>	<b>10659</b>	<b>8633</b>	<b>7204</b>	<b>180</b>	<b>7499</b>	<b>181</b>	<b>-1</b>
B. NPC	NAPS (2*220)	440	410	432	410	9.59	400	9.84	-0.25
	RAPS- B (2*220)	440	383	422	424	9.15	381	9.19	-0.04
	RAPS- C (2*220)	440	425	452	450	9.74	406	10.20	-0.46
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1218</b>	<b>1306</b>	<b>1314</b>	<b>28.49</b>	<b>1187</b>	<b>29.23</b>	<b>-0.75</b>
C. NHPC	Chamera I HPS (3*180)	540	360	361	0	2.81	117	2.49	0.32
	Chamera II HPS (3*100)	300	200	210	0	1.59	66	1.48	0.10
	Chamera III HPS (3*77)	231	190	232	0	0.87	36	0.74	0.13
	Bairasuli HPS(3*60)	180	180	184	0	1.60	67	1.52	0.08
	Salal-HPS (6*115)	690	179	345	105	4.83	201	4.25	0.58
	Tanakpur-HPS (3*40)	94	15	30	14	0.39	16	0.36	0.03
	Uri-I HPS (4*120)	480	299	340	211	7.60	317	7.12	0.49
	Uri-II HPS (4*60)	240	174	178	160	4.21	175	4.15	0.06
	Dhauliganga-HPS (4*70)	280	280	215	0	0.63	26	0.56	0.07
	Dulhasi-HPS (3*130)	390	387	401	0	2.71	113	2.59	0.11
	Sewa-II HPS (3*40)	120	119	124	0	1.41	59	1.46	-0.05
Parbati 3 (4*130)	520	31	132	0	0.64	27	0.47	0.17	
<b>Sub Total (C)</b>	<b>4065</b>	<b>2415</b>	<b>2752</b>	<b>490</b>	<b>29</b>	<b>1220</b>	<b>27</b>	<b>2</b>	
D.SJVNL	NJPC (6*250)	1500	1605	1393	0	6.29	262	6.22	0.07
	Rampur HEP (6*68.67)	412	442	386	0	1.75	73	1.73	0.01
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>1779</b>	<b>0</b>	<b>8.03</b>	<b>335</b>	<b>7.95</b>	<b>0.08</b>	
E. THDC	Tehri HPS (4*250)	1000	774	772	0	7.51	313	7.50	0.01
	Koteshwar HPS (4*100)	400	130	402	90	3.17	132	3.13	0.04
<b>Sub Total (E)</b>	<b>1400</b>	<b>904</b>	<b>1174</b>	<b>90</b>	<b>10.68</b>	<b>445</b>	<b>10.63</b>	<b>0.05</b>	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	659	1214	393	16.03	668	15.82	0.21
	Dehar HPS (6*165)	990	132	495	0	3.15	131	3.16	-0.01
	Pong HPS (6*66)	396	194	300	60	4.45	185	4.65	-0.21
	<b>Sub Total (F)</b>	<b>2765</b>	<b>985</b>	<b>2009</b>	<b>453</b>	<b>23.63</b>	<b>985</b>	<b>23.63</b>	<b>-0.01</b>
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.40	17	0.41	0.00
	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	7	0.15	0.01
	Shree Cement TPS (2*150)	300	0	147	147	3.48	145	3.60	-0.11
	Budhi HPS(IPP) (2*35)	70	0	34	0	0.14	6	0.14	0.00
	<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>812</b>	<b>147</b>	<b>7.56</b>	<b>315</b>	<b>7.89</b>	<b>-0.33</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>18228</b>	<b>18465</b>	<b>9698</b>	<b>287.66</b>	<b>11986</b>	<b>287.35</b>	<b>0.31</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	160	160	3.51	146	
	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	-0.08	-3	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	917	707	18.40	767	
	Talwandi Saboo (2*660)	1320	342	332	7.40	308	
	<b>Thermal (Total)</b>	<b>5360</b>	<b>1419</b>	<b>1199</b>	<b>29.21</b>	<b>1217</b>	
	Total Hydro	1000	302	266	7.11	296	
	<b>Total Punjab</b>	<b>6360</b>	<b>1721</b>	<b>1465</b>	<b>36.32</b>	<b>1513</b>	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	612	604	13.61	567
DCRTPP (Yamuna nagar) (2*300)		600	546	478	11.32	472	
Faridabad GPS (NTPC)		432	159	157	4.00	167	
RGTPP (Khedar) (IPP) (2*600)		1200	0	0	0.00	0	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	544	368	9.51	396	
<b>Thermal (Total)</b>		<b>4944</b>	<b>1861</b>	<b>1607</b>	<b>38.44</b>	<b>1602</b>	
Total Hydro		62	6	10	0.28	11	
<b>Total Haryana</b>		<b>5006</b>	<b>1867</b>	<b>1617</b>	<b>38.72</b>	<b>1613</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	859	851	21.64	901
	suratgarh TPS (6*250)	1500	568	387	11.60	483	
	Chabra TPS (4*250)	1000	571	592	14.74	614	
	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	60	80	1.15	48	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	90	90	1.97	82	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwst LTPS (IPP) (8*135)	1080	651	949	22.13	922	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	931	845	20.97	874	
	Kawai(Adani) (2*660)	1320	939	1174	25.67	1069	
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4669</b>	<b>4968</b>	<b>120</b>	<b>4994</b>	
	Total Hydro	550	190	140	4.39	183	
	Wind power	3214	170	368	5.30	221	
	Biomass	99	21	21	0.50	21	
	Solar	730	0	0	0.02	1	
	Renewable/Others (Total)	4043	191	389	5.82	242	
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5050</b>	<b>5497</b>	<b>130.07</b>	<b>5420</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1387	1390	32.50	1354
		Obra TPS (2*50+2*94+5*200)	1194	434	465	10.80	450
		Paricha TPS (2*110+2*220+2*250)	1140	496	563	12.50	521
		Panki TPS (2*105)	210	0	0	0.00	0
Harduaaganj TPS (1*60+1*105+2*250)		665	223	220	5.40	225	
Tanda TPS (NTPC) (4*110)		440	358	284	8.01	334	
Roza TPS (IPP) (4*300)		1200	766	829	18.90	788	
Anpara-C (IPP) (2*600)		1200	538	540	12.80	533	
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>4202</b>	<b>4291</b>	<b>101</b>	<b>4205</b>	
Vishnuparyag HPS (IPP)(4*110)		440	0	60	0.50	21	
Alakanada(4*82.5)		330	0	0	0.40	17	
Other Hydro		527	167	224	3.20	133	
Cogeneration		981	800	800	19.20	800	
<b>Total UP</b>		<b>13547</b>	<b>5169</b>	<b>5375</b>	<b>124</b>	<b>5175</b>	
Uttarakhand		Total Hydro	1398	576	291	9.73	405
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>576</b>	<b>291</b>	<b>9.73</b>	<b>405</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	36	35	0.91	38	
	Praagati Gas Turbine (2x104+ 1x122)	330	140	141	3.37	140	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	252	6.04	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	162	165	4.41	184	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>588</b>	<b>593</b>	<b>14.71</b>	<b>613</b>	
	<b>Total Delhi</b>	<b>2917</b>	<b>588</b>	<b>593</b>	<b>14.71</b>	<b>613</b>	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.00	0	
	Malana HPS (IPP) (2*43)	86	0	0	0.18	8	
	Other Hydro	878	195	62	3.46	144	
	<b>Total HP</b>	<b>1264</b>	<b>195</b>	<b>62</b>	<b>3.65</b>	<b>152</b>	
J & K	Baglihar HPS (IPP) (3*150)	450	141	144	3.29	137	
	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>248</b>	<b>207</b>	<b>5.26</b>	<b>219</b>	
<b>Total State Control Area Generation</b>		<b>45161</b>	<b>15414</b>	<b>15107</b>	<b>362.65</b>	<b>15110</b>	
<b>J. Net Inter Regional Exchange</b> (Import (+ve)/Export (-ve))			<b>7094.4</b>	<b>6231.03</b>	<b>148.81</b>	<b>6200</b>	
<b>Total Regional Availability(Gross)</b>		<b>70398</b>	<b>40973</b>	<b>31036</b>	<b>799.12</b>	<b>33297</b>	

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	8779	1033	76.97	3207
State Control Area Hydro	6581	1684	1260	34	1437
<b>Total Regional Hydro</b>	<b>18815</b>	<b>10463</b>	<b>2293</b>	<b>111.46</b>	<b>4644</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)	50	-150	50	400	0.20	2.90	-2.70	
765 KV Gwalior-Agra (D/C)	2413	2185	3246	0	62.06	0.00	62.06		
400 KV Zerd-Kankroli	24	236	0	256	0.00	2.57	-2.57		
400 KV Zerd-Bhimnal	95	-170	148	212	0.00	0.76	-0.76		
220 KV Auraiya-Malanpur	-77	-118	0	134	0.00	2.12	-2.12		
220 KV Badod-Kota/Morak	-4	-13	22	39	0.00	0.27	-0.27		
Mundra-Mohindergarh (HVDC Bipole)	1902	1902	2304	0	47.73	0.00	47.73		
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Phagi-Gwalior (D/C)	953	687	1194	0	22.48	0.00	22.48		
<b>Sub Total WR</b>	<b>5356</b>	<b>4559</b>			<b>132.47</b>	<b>8.63</b>	<b>123.83</b>		
Pusauli Bypass/HVDC	400	400	400	0	8.42	0.00	8.42		
400 KV MZP- GKP (D/C)	567	494	0	600	0.00	9.83	-9.83		
400 KV Patna-Balia(D/C) X 2	428	500	688	0	12.87	0.00	12.87		
400 KV B' Sharif-Balia (D/C)	-250	-198	0	260	0.00	3.47	-3.47		
765 KV Gaya-Balia	124	84	194	0	1.52	0.00	1.52		
765 KV Gaya-Fatehpur	112	30	316	0	3.74	0.00	3.74		
220 KV Pusauli-Sahupuri	170	186	191	0	3.60	0.00	3.60		
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96		
132 KV Son Ngr-Rihand	-40	-40	0	40	0.00	0.86	-0.86		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-185	-244	59	254	0.00	2.81	-2.81		
400 KV Barh -GKP (D/C)	412	460	532	0	10.85	0.00	10.85		
<b>Sub Total ER</b>	<b>1738</b>	<b>1672</b>			<b>41.95</b>	<b>16.97</b>	<b>24.98</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>7094</b>	<b>6231</b>			<b>174.42</b>	<b>25.61</b>	<b>148.81</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
29.85	0.04	29.88	3.33	1.41	0.03	21.70	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
33.25	129.09	162.33	24.98	123.83	148.81	-8.27	-5.26	-13.53

**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	0	32	0	1	-0.70	

**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	0.00	5.61	49.01	73.07	15.10	6.01	0.29	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	Std. Dev.	MAX (Hz)	MIN (Hz)	Freq Dev Index (% of Time)
50.26	13.02	49.81	10.09	50.00	0.041	0.064	50.16	0.00	26.93

**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	406	03:01	399	09:19	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	21:43	388	01:11	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	21:20	398	10:07	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	21:20	401	10:06	0.0	0.0	0.0	0.0	0.0
Dadr	400	423	01:59	401	10:07	0.0	0.0	11.1	0.0	11.1
Ballabgarh	400	431	02:59	406	09:13	0.0	0.0	32.9	0.0	32.9
Bawana	400	431	21:20	406	09:14	0.0	0.0	37.4	0.3	37.4
Bassi	400	425	21:19	393	08:49	0.0	0.0	3.9	0.0	3.9
Hissar	400	424	21:20	396	08:50	0.0	0.0	2.4	0.0	2.4
Moga	400	424	02:02	399	09:15	0.0	0.0	10.6	0.0	10.6
Abdullapur	400	427	21:19	399	08:51	0.0	0.0	13.5	0.0	13.5
Nalagarh	400	437	21:20	405	09:13	0.0	0.0	59.8	5.5	59.8
Kishenpur	400	424	02:01	395	07:41	0.0	0.0	14.9	0.0	14.9
Wagoora	400	397	23:52	368	07:41	38.5	78.4	0.0	0.0	38.5
Amritsar	400	430	21:19	401	09:13	0.0	0.0	33.9	0.0	33.9
Kashipur	400	420	02:01	410	09:16	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	21:00	401	07:01	0.0	0.0	5.2	0.0	5.2
Rishkesh	400	415	21:25	389	09:09	0.0	0.4	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	772	02:03	737	08:50	0.0	3.8	0.0	0.0	0.0
Balia	765	764	21:55	739	10:09	0.0	0.8	0.0	0.0	0.0
Moga	765	808	21:20	760	08:49	0.0	0.0	11.5	0.0	11.5
Agra	765	789	02:01	746	08:49	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	21:16	768	12:05	0.0	0.0	5.2	0.0	5.2
Unnao	765	766	03:01	738	10:07	0.0	1.8	0.0	0.0	0.0
Lucknow	765	782	21:54	752	10:07	0.0	0.0	0.0	0.0	0.0
Meerut	765	817	21:21	764	08:49	0.0	0.0	21.0	0.0	21.0
Jhatikara	765					0.0	0.0	30.4	0.0	30.4
Bareilly 765 kV	765	787	21:25	751	09:13	0.0	0.0	0.0	0.0	0.0
Anta	765	778	21:22	757	08:40	0.0	0.0	0.0	0.0	0.0
Phagi	765	788	21:20	746	08:45	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	490.13	738.95	484.81	585.65	123.35	510.55
Pong	426.72	384.05	400.45	230.85	399.24	203.01	37.83	321.85
Tehri	829.79	740.04	777.45	290.73	788.20	425.58	40.07	222.00
Koteshwar	612.50	598.50	610.99	4.95	610.56	4.95	222.00	208.90
Chamera-I	760.00	748.75	757.39	0.00	0.00	0.00	84.75	75.95
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	495.89	0.16	500.84	3.12	37.36	13.05

\* 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	317	0	-322	285	0	-2.77	6.70	3.93
Delhi	-1038	-550	0	-704	3	0	-18.16	-3.97	-22.14
Haryana	-314	-72	0	-340	298	0	-8.84	5.63	-3.21
HP	214	139	0	534	-216	0	10.65	0.32	10.97
J&K	724	0	0	816	25	0	16.18	-0.14	16.04
CHD	-30	0	0	0	-15	0	-0.24	-0.12	-0.36
Rajasthan	-7	656	3	-7	648	3	8.49	14.92	23.41
UP	130	0	0	-603	0	0	-8.26	0.00	-8.26
Uttarakhand	193	112	0	193	233	0	4.75	2.97	7.72
<b>Total</b>	<b>-226</b>	<b>602</b>	<b>3</b>	<b>-433</b>	<b>1260</b>	<b>3</b>	<b>1.79</b>	<b>26.32</b>	<b>28.10</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-68	-322	327	194	0	0
Delhi	-502	-1068	113	-555	0	0
Haryana	-314	-543	306	-202	0	0
HP	588	214	191	-613	0	0
J&K	816	589	98	-152	0	0
CHD	0	-30	0	-46	0	0
Rajasthan	843	-7	1140	406	3	1
UP	165	-624	0	0	0	0
Uttarakhand	221	193	307	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%
----------------	-------

**XII. System Constraints:**

**XIII. Grid Disturbance / Any Other Significant Event:**

**XIV. Weather Conditions For 20.02.2016 :**

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 :**