

# 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 21.02.2016  
Date of Reporting : 22.02.2016



### 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
33269	1331	34601	50.09	28848	1220	30068	50.12	767.4	44.16

\* 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 [OG:(+ve), UD:(-ve)] Shortages *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	28.86	6.83		35.69	53.52	53.42	-0.10	89.11	0.00
Haryana	30.68	0.29		30.97	71.80	69.54	-2.27	100.51	0.00
Rajasthan	125.28	4.56	3.29	133.13	71.16	73.02	1.85	206.15	0.00
Delhi	13.85			13.85	40.09	38.41	-1.68	52.25	0.00
UP	112.74	2.40		115.14	106.12	106.41	0.29	221.55	33.92
Uttarakhand		10.38		10.38	21.06	21.43	0.37	31.81	0.00
HP		3.26		3.26	19.71	18.76	-0.95	22.02	0.61
J & K		6.12	0.00	6.12	37.06	34.80	-2.26	40.92	9.64
Chandigarh				0.00	3.27	3.11	0.27	3.11	0.00
<b>Total</b>	<b>311.40</b>	<b>33.84</b>	<b>3.29</b>	<b>348.53</b>	<b>423.79</b>	<b>418.89</b>	<b>-4.47</b>	<b>767.42</b>	<b>44.16</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	4276	0	243	-25	2940	0	-15	241	4648
Haryana	5065	0	-555	-158	3021	0	-4	-334	5339
Rajasthan	7881	0	-239	589	8471	0	71	630	9704
Delhi	2304	0	-432	-727	1388	0	-5	-1596	3073
UP	9333	890	12	-539	9440	940	-24	130	10264
Uttarakhand	1572	0	-51	507	1136	0	61	305	1656
HP	913	0	-246	207	773	0	21	315	1241
J&K	1766	441	-231	767	1587	280	-146	724	1903
Chandigarh	159	0	-8	-15	92	0	2	-30	176
<b>Total</b>	<b>33269</b>	<b>1331</b>	<b>-1506</b>	<b>604</b>	<b>28848</b>	<b>1220</b>	<b>-39</b>	<b>385</b>	<b>36146</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	1884	1795	1849	42.94	1789	42.97	-0.03
	Rihand I STPS (2*500)	1000	863	701	687	16.81	701	16.57	0.25
	Rihand II STPS (2*500)	1000	963	1021	813	19.37	807	19.41	-0.05
	Rihand III STPS (2*500)	1000	974	1021	815	19.78	824	20.05	-0.26
	Dadri I STPS (4*210)	840	815	552	559	13.20	550	13.70	-0.50
	Dadri II STPS (2*490)	980	980	669	668	16.16	674	16.57	-0.41
	Unchahar I TPS (2*210)	420	406	323	317	7.49	312	7.67	-0.18
	Unchahar II TPS (2*210)	420	404	325	304	7.09	295	7.19	-0.11
	Unchahar III TPS (1*220)	210	202	172	152	3.52	147	3.61	-0.09
	ISTPP (Jhajhar) (3*500)	1500	950	614	623	14.04	585	14.36	-0.32
	Dadri GPS (4*130.19+2*154.51)	830	816	491	486	11.51	479	11.72	-0.22
	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	656	306	301	6.95	289	7.11	-0.17
	Dadri Solar	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar	10	1	0	0	0.00	0	0.02	-0.02
	Singrauli Solar	15	2	0	0	0.05	2	0.04	0.01
	<b>Sub Total (A)</b>	<b>12112</b>	<b>10766</b>	<b>8425</b>	<b>7574</b>	<b>181</b>	<b>7562</b>	<b>183</b>	<b>-2</b>
B. NPC	NAPS (2*220)	440	405	445	448	9.79	408	9.72	0.06
	RAPS- B (2*220)	440	379	427	427	9.24	385	9.10	0.15
	RAPS- C (2*220)	440	425	458	455	9.90	412	10.20	-0.30
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1209</b>	<b>1330</b>	<b>1330</b>	<b>28.93</b>	<b>1205</b>	<b>29.02</b>	<b>-0.09</b>
C. NHPC	Chamera I HPS (3*180)	540	360	367	0	2.50	104	2.20	0.30
	Chamera II HPS (3*100)	300	200	204	0	1.55	64	1.37	0.17
	Chamera III HPS (3*77)	231	201	232	0	0.74	31	0.69	0.06
	Bairasuli HPS(3*60)	180	182	184	0	1.41	59	1.23	0.18
	Salal-HPS (6*115)	690	148	317	200	4.05	169	3.52	0.52
	Tanakpur-HPS (3*40)	94	16	31	14	0.44	18	0.39	0.05
	Uri-I HPS (4*120)	480	343	350	350	8.60	358	8.14	0.45
	Uri-II HPS (4*60)	240	175	178	178	4.20	175	4.18	0.02
	Dhauliganga-HPS (4*70)	280	280	286	0	0.96	40	0.83	0.13
	Dulhasi-HPS (3*130)	390	387	403	0	3.00	125	2.69	0.31
	Sewa-II HPS (3*40)	120	119	124	0	1.03	43	0.98	0.05
	Parbati 3 (4*130)	520	130	131	0	0.40	16	0.38	0.02
<b>Sub Total (C)</b>	<b>4065</b>	<b>2541</b>	<b>2808</b>	<b>742</b>	<b>29</b>	<b>1203</b>	<b>27</b>	<b>2</b>	
D.SJVNL	NJPC (6*250)	1500	1605	1590	0	6.25	260	6.26	-0.02
	Rampur HEP (6*68.67)	412	442	442	0	1.76	73	1.75	0.02
	<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2032</b>	<b>0</b>	<b>8.01</b>	<b>334</b>	<b>8.01</b>	<b>0.00</b>
E. THDC	Tehri HPS (4*250)	1000	760	768	0	7.86	319	7.50	0.16
	Koteshwar HPS (4*100)	400	130	400	90	3.15	131	3.13	0.02
	<b>Sub Total (E)</b>	<b>1400</b>	<b>890</b>	<b>1168</b>	<b>90</b>	<b>10.81</b>	<b>451</b>	<b>10.63</b>	<b>0.18</b>
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	663	1204	386	15.90	663	15.91	-0.01
	Dehar HPS (6*165)	990	268	495	165	6.56	273	6.44	0.12
	Pong HPS (6*66)	396	196	300	60	4.43	184	4.70	-0.27
	<b>Sub Total (F)</b>	<b>2765</b>	<b>1127</b>	<b>1999</b>	<b>611</b>	<b>26.89</b>	<b>1120</b>	<b>27.05</b>	<b>-0.16</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	7	0.16	0.01
	Shree Cement TPS (2*150)	300	0	144	148	3.47	145	3.55	-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>809</b>	<b>148</b>	<b>7.56</b>	<b>315</b>	<b>7.83</b>	<b>-0.28</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>18580</b>	<b>18571</b>	<b>10495</b>	<b>292.54</b>	<b>12189</b>	<b>292.48</b>	<b>0.06</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	3.77	157
	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	0.00	0
	Rajpura (2*700)	1400	775	700	17.75	740
	Talwandi Saboo (2*660)	1320	342	330	7.43	309
	<b>Thermal (Total)</b>	<b>5360</b>	<b>1327</b>	<b>1190</b>	<b>28.86</b>	<b>1202</b>
	Total Hydro	1000	271	268	6.83	285
	<b>Total Punjab</b>	<b>6360</b>	<b>1598</b>	<b>1458</b>	<b>35.69</b>	<b>1487</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	235	217	5.15
DCRTPP (Yamuna nagar) (2*300)		600	554	456	11.24	468
Faridabad GPS (NTPC)		432	197	164	4.20	175
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	582	368	10.09	421
<b>Thermal (Total)</b>		<b>4944</b>	<b>1568</b>	<b>1205</b>	<b>30.68</b>	<b>1278</b>
Total Hydro		62	7	15	0.29	12
<b>Total Haryana</b>		<b>5006</b>	<b>1575</b>	<b>1220</b>	<b>30.97</b>	<b>1291</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	852	863	21.56
	suratgarh TPS (6*250)	1500	574	569	14.46	603
	Chabra TPS (4*250)	1000	600	639	14.64	610
	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	84	80	2.66	111
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	91	91	2.04	85
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	532	964	21.57	899
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	847	1096	21.96	915
	Kawai(Adani) (2*660)	1320	868	1175	26.39	1100
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4448</b>	<b>5477</b>	<b>125</b>	<b>5220</b>
	Total Hydro	550	207	163	4.56	190
	Wind power	3214	29	145	1.99	83
	Biomass	99	28	28	0.67	28
	Solar	730	12	0	0.63	26
	Renewable/Others (Total)	4043	69	173	3.29	137
	<b>Total Rajasthan</b>	<b>13469</b>	<b>4724</b>	<b>5813</b>	<b>133.13</b>	<b>5547</b>
	UP	Anpara TPS (3*210+2*500)	1630	1236	1348	30.00
Obra TPS (2*50+2*94+5*200)		1194	434	432	9.90	413
Paricha TPS (2*110+2*220+2*250)		1140	338	324	8.50	354
Panki TPS (2*105)		210	0	0	0.00	0
Harduaaganj TPS (1*60+1*105+2*250)		665	173	216	4.90	204
Tanda TPS (NTPC) (4*110)		440	384	379	9.24	385
Roza TPS (IPP) (4*300)		1200	707	824	18.20	758
Anpara-C (IPP) (2*600)		1200	536	536	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>3808</b>	<b>4059</b>	<b>94</b>	<b>3898</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	16	2.40	100
Cogeneration		981	800	800	19.20	800
<b>Total UP</b>	<b>13547</b>	<b>4723</b>	<b>4875</b>	<b>115</b>	<b>4798</b>	
Uttarakhand	Total Hydro	1398	567	303	10.38	432
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>567</b>	<b>303</b>	<b>10.38</b>	<b>432</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	39	39	0.92	38
	Praagati Gas Turbine (2x104+ 1x122)	330	138	141	3.37	140
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	251	6.03	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	162	161	3.53	147
	<b>Thermal (Total)</b>	<b>2917</b>	<b>590</b>	<b>591</b>	<b>13.85</b>	<b>577</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>590</b>	<b>591</b>	<b>13.85</b>	<b>577</b>
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.00	0
	Malana HPS (IPP) (2*43)	86	0	0	0.21	9
	Other Hydro	878	151	84	3.05	127
	<b>Total HP</b>	<b>1264</b>	<b>151</b>	<b>84</b>	<b>3.26</b>	<b>136</b>
J & K	Baglihar HPS (IPP) (3*150)	450	251	144	4.15	173
	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>358</b>	<b>207</b>	<b>6.12</b>	<b>255</b>
<b>Total State Control Area Generation</b>		<b>45161</b>	<b>14286</b>	<b>14551</b>	<b>348.53</b>	<b>14522</b>
<b>J. Net Inter Regional Exchange</b> (Import (+ve)/Export (-ve))			<b>5237</b>	<b>6024</b>	<b>143.52</b>	<b>5980</b>
<b>Total Regional Availability(Gross)</b>		<b>70398</b>	<b>38093</b>	<b>31070</b>	<b>784.60</b>	<b>32692</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12234	9072	1443	81.06	3377
State Control Area Hydro	6581	1676	1056	34	1410
<b>Total Regional Hydro</b>	<b>18815</b>	<b>10748</b>	<b>2499</b>	<b>114.90</b>	<b>4788</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	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-400	-400	0	400	0.00	9.45	-9.45
765 KV Gwalior-Agra (D/C)	2027	2653	2976	0	60.64	0.00	60.64
400 KV Zarda-Kankroli	-18	-109	85	159	0.00	1.10	-1.10
400 KV Zarda-Bhinmal	98	-30	202	97	1.04	0.00	1.04
220 KV Auraiya-Malanpur	-107	-75	0	128	0.00	2.14	-2.14
220 KV Badod-Kota/Morak	13	-19	36	25	0.17	0.00	0.17
Mundra-Mohindergarh(HVDC Bipole)	1902	1897	2206	0	45.57	0.00	45.57
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Phagi-Gwalior (D/C)	782	714	613	0	22.33	0.00	22.33
<b>Sub Total WR</b>	<b>4297</b>	<b>4631</b>			<b>129.75</b>	<b>12.69</b>	<b>117.05</b>
Pusauli Bypass/HVDC	200	100	200	335	2.49	1.48	1.01
400 KV MZP- GKP (D/C)	308	310	310	392	0.00	3.67	-3.67
400 KV Patna-Balia(D/C) X 2	147	418	581	0	10.38	0.00	10.38
400 KV B' Sharif-Balia (D/C)	-101	-67	184	-102	0.18	0.00	0.18
765 KV Gaya-Balia	120	186	253	0	1.85	0.00	1.85
765 KV Gaya-Fatehpur	78	47	414	0	4.66	0.00	4.66
220 KV Pusauli-Sahupuri	157	177	182	0	3.51	0.00	3.51
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-36	-32	0	42	0.00	0.88	-0.88
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-125	-146	316	147	0.00	0.46	-0.46
400 KV Barh -GKP (D/C)	192	400	466	0	8.94	0.00	8.94
<b>Sub Total ER</b>	<b>940</b>	<b>1393</b>			<b>32.95</b>	<b>6.48</b>	<b>26.47</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>5237</b>	<b>6024</b>			<b>162.70</b>	<b>19.18</b>	<b>143.52</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
29.25	0.11	29.35	3.13	-1.69	0.04	19.63	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
32.52	123.56	156.08	26.47	117.05	143.52	-6.05	-6.50	-12.56

**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	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-30	-30	0	32	0	1	-0.60

**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	3.32	41.90	70.01	19.18	7.19	0.30	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum	Minimum		MIN						
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)	(Hz)	(Hz)	
50.25	.	49.82	2207.00	50.01	0.039	0.061	0.00	0.00	29.99

**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	489.90	729.18	484.46	569.03	177.97	488.55
Pong	426.72	384.05	400.28	223.85	399.25	203.01	36.56	320.60
Tehri	829.79	740.04	776.95	285.56	787.60	425.58	40.22	227.00
Koteshwar	612.50	598.50	611.09	5.12	610.66	4.95	227.00	207.69
Chamera-I	760.00	748.75	757.53	0.00	0.00	0.00	79.56	67.24
Rihand	268.22	252.98	846.00	203.00	848.00	231.00	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	495.94	0.00	500.87	3.22	49.62	7.95

\* 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	337	0	-322	297	0	-2.77	8.05	5.28
Delhi	-1038	-557	0	-704	-24	0	-18.03	-4.26	-22.30
Haryana	-314	-19	0	-340	181	0	-8.84	3.56	-5.29
HP	201	114	0	471	-264	0	10.20	-1.97	8.23
J&K	724	0	0	742	25	0	15.72	-0.19	15.53
CHD	-30	0	0	0	-15	0	-0.24	-0.13	-0.37
Rajasthan	-7	634	3	-7	593	3	8.49	13.27	21.76
UP	130	0	0	-539	0	0	-8.56	0.00	-8.56
Uttarakhand	193	112	0	193	314	0	4.75	3.80	8.55
<b>Total</b>	<b>-239</b>	<b>621</b>	<b>3</b>	<b>-506</b>	<b>1107</b>	<b>3</b>	<b>0.70</b>	<b>22.13</b>	<b>22.83</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-68	-322	366	256	0	0
Delhi	-502	-1068	108	-557	0	0
Haryana	-314	-543	240	-272	0	0
HP	575	151	114	-775	0	0
J&K	742	589	74	-152	0	0
CHD	0	-30	0	-56	0	0
Rajasthan	843	-7	649	344	3	3
UP	140	-650	0	0	0	0
Uttarakhand	221	193	343	54	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 21.02.2016 :**

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 :**