

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 14.01.2017  
Date of Reporting : 15.01.2017



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
42407	651	43058	49.98	30826	453	31280	49.99	891.04	18.13

\* 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 *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	47.18	8.34	0.34	55.86	43.36	43.65	0.29	99.50	0.00
Haryana	53.96	0.38	0.00	54.34	66.59	64.88	-1.71	119.21	0.00
Rajasthan	110.32	4.90	20.88	136.09	70.06	72.10	2.05	208.20	0.99
Delhi	12.10		0.00	12.10	50.97	52.06	1.09	64.17	0.02
UP	192.64	6.95	0.00	199.58	88.46	89.21	0.75	288.79	2.25
Uttarakhand		8.62	0.00	11.67	20.20	21.52	1.32	33.19	2.76
HP		3.78	1.03	3.78	20.87	22.02	1.15	25.79	0.00
J & K		3.77	0.00	3.77	39.05	44.66	5.61	48.43	12.11
Chandigarh				0.00	3.73	3.76	0.03	3.76	0.00
<b>Total</b>	<b>416.19</b>	<b>36.73</b>	<b>22.25</b>	<b>477.18</b>	<b>403.28</b>	<b>413.86</b>	<b>10.57</b>	<b>891.04</b>	<b>18.13</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				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	5067	0	-47	-673	2963	0	-90	-545	5079	8:00	0
Haryana	6514	0	-180	-226	3339	0	-60	-485	6514	19:00	0
Rajasthan	9231	0	-37	657	8133	0	72	757	9836	9:00	101
Delhi	3164	0	-114	77	1565	0	120	-632	3983	12:00	0
UP	12909	110	-206	-218	10920	0	-37	98	13211	7:00	0
Uttarakhand	1903	0	-33	217	1257	0	-6	361	1903	19:00	0
HP	1260	0	35	355	742	0	3	511	1463	10:00	0
J&K	2162	541	165	812	1813	453	146	888	2228	8:00	557
Chandigarh	196	0	-22	19	95	0	-8	0	224	9:00	0
<b>Total</b>	<b>42407</b>	<b>651</b>	<b>-438</b>	<b>1021</b>	<b>30826</b>	<b>453</b>	<b>140</b>	<b>954</b>	<b>42407</b>	<b>19:00</b>	<b>651</b>

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

III. Regional Entities :

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	Net MU
<b>A. NTPC</b>									
Singrauli STPS (5*200+2*500)	2000	1890	2041	1653	43.85	1827	43.53		0.31
Rihand I STPS (2*500)	1000	947	989	687	20.27	845	20.77		-0.50
Rihand II STPS (2*500)	1000	957	971	714	20.88	870	21.39		-0.51
Rihand III STPS (2*500)	1000	908	964	772	20.08	836	20.63		-0.56
Dadri I STPS (4*210)	840	815	189	154	4.15	173	4.34		-0.20
Dadri II STPS (2*490)	980	980	459	335	9.97	415	10.80		-0.83
Unchahar I TPS (2*210)	420	349	219	275	6.83	284	7.40		-0.57
Unchahar II TPS (2*210)	420	405	375	297	7.63	318	8.43		-0.80
Unchahar III TPS (1*210)	210	203	178	138	3.74	156	4.24		-0.49
ISTPP (Jhajjar) (3*500)	1500	1440	0	0	-0.20	-8	0.00		-0.20
Dadri GPS (4*130.19+2*154.51)	830	832	181	178	4.43	185	5.11		-0.68
Anta GPS (3*88.71+1*153.2)	419	426	0	0	0.00	0	0.02		-0.02
Auraiya GPS (4*111.19+2*109.30)	663	637	0	0	0.00	0	0.02		-0.02
Dadri Solar(5)	5	1	0	0	0.01	1	0.02		-0.01
Unchahar Solar(10)	10	1	0	0	0.04	2	0.04		0.00
Singrauli Solar(15)	15	2	0	0	0.06	2	0.05		0.01
KHEP(4*200)	800	870	764	436	2.61	109	2.61		0.00
<b>Sub Total (A)</b>	<b>12112</b>	<b>11663</b>	<b>7330</b>	<b>5639</b>	<b>144</b>	<b>6014</b>	<b>149</b>		<b>-5.06</b>
<b>B. NPC</b>									
NAPS (2*220)	440	418	458	459	10.12	422	10.03		0.09
RAPS- B (2*220)	440	199	452	452	9.78	407	4.78		5.00
RAPS- C (2*220)	440	220	239	239	5.05	210	5.28		-0.23
<b>Sub Total (B)</b>	<b>1320</b>	<b>837</b>	<b>1149</b>	<b>1150</b>	<b>24.94</b>	<b>1039</b>	<b>20.09</b>		<b>4.86</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	540	547	0	1.83	76	1.62		0.21
Chamera II HPS (3*100)	300	301	306	0	1.04	43	0.95		0.09
Chamera III HPS (3*77)	231	167	157	0	0.51	21	0.50		0.01
Bairasul HPS(3*60)	180	179	182	0	0.47	19	0.45		0.02
Salal-HPS (6*115)	690	78	230	100	2.10	88	1.88		0.23
Tanakpur-HPS (3*31.4)	94	21	21	21	0.57	24	0.49		0.07
Uri-I HPS (4*120)	480	103	229	81	2.65	110	2.48		0.17
Uri-II HPS (4*60)	240	69	120	79	1.72	72	1.67		0.05
Dhauliganga-HPS (4*70)	280	210	214	0	0.82	34	0.77		0.05
Dulhasi-HPS (3*130)	390	329	266	0	2.55	106	2.40		0.15
Sewa-II HPS (3*40)	120	100	12	0	0.21	9	0.30		-0.09
Parbati 3 (4*130)	520	130	139	0	0.42	17	0.39		0.03
<b>Sub Total (C)</b>	<b>4065</b>	<b>2226</b>	<b>2424</b>	<b>281</b>	<b>15</b>	<b>620</b>	<b>14</b>		<b>0.97</b>
<b>D.SJVNL</b>									
NJPC (6*250)	1500	1390	1326	0	6.13	255	6.35		-0.22
Rampur HEP (6*68.67)	412	383	377	0	1.68	70	1.75		-0.07
<b>Sub Total (D)</b>	<b>1912</b>	<b>1774</b>	<b>1703</b>	<b>0</b>	<b>7.81</b>	<b>325</b>	<b>8.10</b>		<b>-0.29</b>
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	976	972	0	8.70	363	8.56		0.14
Koteshwar HPS (4*100)	400	128	394	71	3.10	129	3.06		0.04
<b>Sub Total (E)</b>	<b>1400</b>	<b>1104</b>	<b>1366</b>	<b>71</b>	<b>11.80</b>	<b>492</b>	<b>11.62</b>		<b>0.18</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	524	1094	400	13.20	550	12.59		0.62
Dehar HPS (6*165)	990	108	495	0	2.70	112	2.59		0.11
Pong HPS (6*66)	396	213	396	0	5.11	213	5.10		0.01
<b>Sub Total (F)</b>	<b>2765</b>	<b>845</b>	<b>1985</b>	<b>400</b>	<b>21.01</b>	<b>876</b>	<b>20.28</b>		<b>0.74</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.35	15	0.34		0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.19	133	3.56		-0.36
Malana Stg-II HPS (2*50)	100	0	0	0	0.19	8	0.18		0.01
Shree Cement TPS (2*150)	300	0	157	146	3.73	155	2.82		0.90
Budhil HPS(IPP) (2*35)	70	0	0	0	0.14	6	0.15		-0.02
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>787</b>	<b>146</b>	<b>7.60</b>	<b>317</b>	<b>7.04</b>		<b>0.55</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>18448</b>	<b>16744</b>	<b>7687</b>	<b>232.37</b>	<b>9682</b>	<b>230.43</b>		<b>1.94</b>
<b>I. State Entities</b>	<b>Station</b>	<b>Effective Installed Capacity (MW)</b>	<b>Peak MW</b>	<b>Off Peak MW</b>	<b>Energy(MU)</b>	<b>Average(Sentout MW)</b>			
<b>Punjab</b>	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	-0.12	-5			
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1			
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	182	183	4.06	169			
	Goindwal (GVK) (2*270)	540	0	0	-0.03	-1			

	Rajpura (2*700)	1400	1220	660	25.52	1063
	Talwandi Saboo (3*660)	1980	616	616	17.78	741
	<b>Thermal (Total)</b>	<b>6560</b>	<b>2018</b>	<b>1459</b>	<b>47.18</b>	<b>1966</b>
	Total Hydro	1000	318	229	8.34	348
	Wind Power	0	0	0	0.00	0
	Biomass	288	12	12	0.28	12
	Solar	560	0	0	0.06	3
	<b>Renewable(Total)</b>	<b>848</b>	<b>12</b>	<b>12</b>	<b>0.34</b>	<b>14</b>
	<b>Total Punjab</b>	<b>8408</b>	<b>2348</b>	<b>1700</b>	<b>55.86</b>	<b>2327</b>
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	277	462	8.93	372
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	1160	768	23.89	995
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	1207	739	21.13	881
	<b>Thermal (Total)</b>	<b>4497</b>	<b>2644</b>	<b>1969</b>	<b>53.96</b>	<b>2248</b>
	Total Hydro	62	14	14	0.38	16
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
	<b>Total Haryana</b>	<b>4599</b>	<b>2658</b>	<b>1983</b>	<b>54.34</b>	<b>2264</b>
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	979	958	23.93	997
	suratgarh TPS (6*250)	1500	181	185	4.88	203
	Chabra TPS (4*250)	1000	770	823	19.93	830
	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	154	3.59	150
	RAPS A (NPC) (1*100+1*200)	300	190	190	4.33	180
	Barsingar (NLC) (2*125)	250	227	150	4.77	199
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	581	381	13.53	564
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	817	822	22.04	918
	Kawai(Adani) (2*660)	1320	605	443	13.33	555
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4523</b>	<b>4106</b>	<b>110.32</b>	<b>4597</b>
	Total Hydro	550	254	196	4.90	204
	Wind power	4017	1048	1207	20.56	857
	Biomass	99	13	13	0.31	13
	Solar	1295	0	0	0.00	0
	Renewable/Others (Total)	5411	1061	1220	20.88	870
	<b>Total Rajasthan</b>	<b>14837</b>	<b>5838</b>	<b>5522</b>	<b>136.09</b>	<b>5671</b>
UP	Anpara TPS (3*210+2*500)	1630	1406	1106	29.80	1242
	Obra TPS (2*50+2*94+5*200)	1194	488	446	11.60	483
	Paricha TPS (2*110+2*220+2*250)	1160	651	662	19.40	808
	Panki TPS (2*105)	210	135	131	3.10	129
	Harduaqanj TPS (1*60+1*105+2*250)	665	411	415	11.70	488
	Tanda TPS (NTPC) (4*110)	440	376	282	8.54	356
	Roza TPS (IPP) (4*300)	1200	756	752	23.40	975
	Anpara-C (IPP) (2*600)	1200	1067	815	24.40	1017
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	194	194	5.90	246
	Anpara-D(2*500)	1000	579	599	13.90	579
	Lalitpur TPS(3*660)	1980	0	0	0.00	0
	Bara(2*660)	1320	880	728	20.50	854
	<b>Thermal (Total)</b>	<b>12449</b>	<b>6943</b>	<b>6130</b>	<b>172.24</b>	<b>7177</b>
	Vishnuparyag HPS (IPP)(4*110)	440	78	73	1.74	72
	Alaknada(4*82.5)	330	77	0	1.01	42
	Other Hydro	527	237	133	4.20	175
	Cogeneration	981	850	850	20.40	850
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
<b>Total UP</b>	<b>14855</b>	<b>8185</b>	<b>7186</b>	<b>199.58</b>	<b>8316</b>	
Uttarakhand	Other Hydro	1250	424	349	8.62	359
	Total Gas	225	263	94	3.01	125
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.04	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>327</b>	<b>0</b>	<b>0</b>	<b>0.04</b>	<b>2</b>
<b>Total Uttarakhand</b>	<b>1802</b>	<b>687</b>	<b>443</b>	<b>11.67</b>	<b>486</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	103	75	1.87	78
	Pragati Gas Turbine (2x104+ 1x122)	330	133	137	3.39	141
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	264	280	6.85	285
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>2917</b>	<b>501</b>	<b>492</b>	<b>12.10</b>	<b>504</b>
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
<b>Total Delhi</b>	<b>2935</b>	<b>501</b>	<b>492</b>	<b>12.10</b>	<b>504</b>	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.95	40
	Malana HPS (IPP) (2*43)	86	0	0	0.20	8
	Other Hydro	372	61	29	1.59	66
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	53	37	1.03	43
	<b>Renewable(Total)</b>	<b>486</b>	<b>53</b>	<b>37</b>	<b>1.03</b>	<b>43</b>
	<b>Total HP</b>	<b>1244</b>	<b>114</b>	<b>66</b>	<b>3.78</b>	<b>157</b>
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	118	117	2.82	118
	Other Hydro/IPP(including 98 MW Small Hydro)	308	80	18	0.95	40
	Gas/Diesel/Others	190	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)Included in Other Hydro Above	98	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
<b>Total J &amp; K</b>	<b>1398</b>	<b>198</b>	<b>135</b>	<b>4</b>	<b>157</b>	

Total State Control Area Generation	50078	20528	17526	477.18	19883
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7239.47	6983.97	198.86	8286
Total Regional Availability(Gross)	75315	44512	32197	908.41	37851

**IV. Total Hydro Generation:**

Regional Entities Hydro	12234	8872	1188	61.83	2576
State Control Area Hydro	7163	1977	1289	36.73	1657
Total Regional Hydro	19397	10850	2477	98.56	4234

**V. Total Renewable Generation:**

Regional Entities Renewable	30	0	0	0.11	5
State Control Area Renewable	7356	1125	1269	22.29	929
Total Regional Renewable	7386	1125	1269	22.40	933

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-300	-300	50	300	0.24	5.41	-5.17
765 KV Gwalior-Agra (D/C)	2220	2356	2930	0	59.90	0.00	59.90
400 KV Zerda-Kankroli	-3	-146	29	160	0.00	1.28	-1.28
400 KV Zerda-Bhimnal	15	-26	192	102	1.11	0.00	1.11
220 KV Auraiya-Malanpur	-60	-75	0	115	0.00	1.37	-1.37
220 KV Badod-Kota/Morak	-35	30	77	60	0.38	0.00	0.38
Mundra-Mohinderghar(HVDC Bipole)	2499	1599	2507	0.00	54.94	0.00	54.94
400 KV RAPPCC-Sujalpur	250	281	425	0	7.05	0.00	7.05
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1146	1234	1519	0	32.56	0.00	32.56
<b>Sub Total WR</b>	<b>5732</b>	<b>4953</b>			<b>156.19</b>	<b>8.06</b>	<b>148.12</b>
400 kV Sasaram - Varanasi	213	199	225	0	4.52	0.00	4.52
400 kV Sasaram - Allahabad	25	41	44	72	0.39	0.00	0.39
400 KV MZP- GKP (D/C)	66	309	338	0	5.45	0.00	5.45
400 KV Patna-Balia(D/C) X 2	528	629	868	0	16.04	0.00	16.04
400 KV B'Sharif-Balia (D/C)	21	131	222	0	3.15	0.00	3.15
765 KV Gaya-Balia	241	266	348	0	5.97	0.00	5.97
765 KV Gaya-Varanasi (D/C)	422	516	741	0	13.42	0.00	13.42
220 KV Pusaali-Sahupuri	91	95	127	0	1.59	0.00	1.59
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-27	-17	0	30	0.00	0.55	-0.55
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-112	-68	157	112	0.32	0.00	0.32
400 KV Barh -GKP (D/C)	460	462	552	0	11.64	0.00	11.64
400 kV B'Sharif - Varanasi (D/C)	79	-32	205	91	1.35	0.00	1.35
<b>Sub Total ER</b>	<b>2007</b>	<b>2531</b>			<b>63.83</b>	<b>1.06</b>	<b>62.77</b>
+/- 800 KV BiswanathChariali-Agra	-500	-500	0	500.00	0.00	12.03	-12.03
<b>Sub Total NER</b>	<b>-500</b>	<b>-500</b>			<b>0.00</b>	<b>12.03</b>	<b>-12.03</b>
<b>Total IR Exch</b>	<b>7239</b>	<b>6984</b>			<b>220.02</b>	<b>21.16</b>	<b>198.86</b>

**VI(B). 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
44.49	0.44	44.93	-0.05	2.05	27.50	0.00	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
72.37	138.24	210.61	50.74	148.12	198.86	-21.63	9.88	-11.75

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-37	-35	0	38	0	1	-0.82

**VII. 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	0.43	3.76	41.87	67.62	20.53	7.12	1.03	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)		
50.33	18.03	49.76	12.23	50.01	0.048	0.068	0.00	0.00	32.38

**VIII(A). Voltage profile 400 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	407	1:03	397	7:41	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	4:01	400	9:40	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	0:59	397	9:47	0.0	0.0	1.2	0.0	1.2
Kanpur	400	417	0:59	395	9:37	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	3:59	401	9:38	0.0	0.0	22.2	0.0	22.2
Ballabgarh	400	430	4:00	404	9:37	0.0	0.0	33.0	0.0	33.0
Bawana	400	425	3:44	401	9:38	0.0	0.0	19.7	0.0	19.7
Bassi	400	425	4:00	396	9:35	0.0	0.0	2.3	0.0	2.3
Hissar	400	423	4:03	397	12:43	0.0	0.0	1.4	0.0	1.4
Moga	400	415	19:38	402	12:15	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	427	3:03	405	12:15	0.0	0.0	27.6	0.0	27.6
Nalagarh	400	430	3:12	412	12:16	0.0	0.0	39.4	0.0	39.4
Kishenpur	400	419	2:28	397	12:14	0.0	0.0	0.0	0.0	0.0
Wagoora	400	412	17:49	367	10:34	36.3	85.6	0.0	0.0	36.3
Amritsar	400	429	3:07	406	12:14	0.0	0.0	33.8	0.0	33.8
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	2:27	413	5:49	0.0	0.0	22.5	0.0	22.5
Rishikesh	400	422	4:00	391	9:42	0.0	0.0	4.4	0.0	4.4

**VIII(B). Voltage profile 765 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	772	20:28	734	9:47	0.0	4.3	0.0	0.0	0.0
Balia	765	787	4:02	749	9:47	0.0	0.0	0.0	0.0	0.0
Moga	765	792	19:43	764	9:38	0.0	0.0	0.0	0.0	0.0

Agra	765	788	4:01	746	9:38	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	3:04	763	9:38	0.0	0.0	20.6	0.0	20.6
Unnao	765	775	4:02	730	9:46	0.0	23.9	0.0	0.0	0.0
Lucknow	765	800	4:00	758	9:47	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	20:26	762	9:38	0.0	0.0	11.6	0.0	11.6
Jhatikara	765	806	4:01	758	9:38	0.0	0.0	10.5	0.0	10.5
Bareilly 765 kV	765	796	4:02	750	9:38	0.0	0.0	0.0	0.0	0.0
Anta	765	796	3:58	758	9:33	0.0	0.0	0.0	0.0	0.0
Phagi	765	804	4:00	754	9:42	0.0	0.0	0.6	0.0	0.6

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	485.53	602.35	498.54	1041.47	154.72	402.10
Pong	426.72	384.05	406.58	388.64	408.74	454.47	58.50	348.10
Tehri	829.79	740.04	802.80	661.80	796.20	544.69	32.21	210.00
Koteshwar	612.50	598.50	610.58	4.95	611.13	4.95	210.00	204.05
Chamera-I	760.00	748.75	759.24	0.00	0.00	0.00	44.99	48.51
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	503.61	1.57	496.61	2.17	41.56	83.67

\* 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	-547	2	0	-673	0	0	-18.88	3.83	-15.06
Delhi	-94	-538	0	-277	354	0	-3.94	1.99	-1.95
Haryana	-854	369	0	-517	292	0	-15.11	6.16	-8.96
HP	430	82	0	393	-38	0	11.85	-0.21	11.64
J&K	608	280	0	605	207	0	15.41	5.60	21.01
CHD	0	0	0	0	19	0	0.00	0.14	0.14
Rajasthan	298	459	0	248	409	0	14.43	9.58	24.01
UP	98	0	0	-118	-100	0	-8.53	-1.54	-10.06
Uttarakhand	310	51	0	55	162	0	3.90	2.58	6.48
<b>Total</b>	<b>248</b>	<b>706</b>	<b>0</b>	<b>-284</b>	<b>1305</b>	<b>0</b>	<b>-0.87</b>	<b>28.13</b>	<b>27.26</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-537	-1271	436	-399	0	0
Delhi	-24	-302	800	-585	0	0
Haryana	-517	-854	372	-304	0	0
HP	738	274	149	-416	0	0
J&K	742	590	458	0	0	0
CHD	0	0	43	-21	0	0
Rajasthan	1167	245	460	-156	0	0
UP	155	-962	0	-100	0	0
Uttarakhand	310	41	322	-21	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	1.04%

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

WR	12.50%
ER	0.00%
Simultaneous	6.94%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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**XII. Zero Crossing Violations**

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	0	9
Haryana	3	16
Rajasthan	0	9
Delhi	4	34
UP	0	10
Uttarakhand	3	32
HP	2	29
J & K	6	41
Chandigarh	5	37

**XIII. System Constraints:**

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

**XV. Weather Conditions For 14.01.2017 :**

**XVI. Synchronisation of new generating units :**

**XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**

1. 1000MVA ICT-1 at 765/400kV GSS Mainpuri(UP) first time charged at no-load from 400kV Side at 1443Hrs of 14.01.2017

**XVIII. Tripping of lines in pooling stations :**

**XIX. 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.

Report for : 14.01.2017

परी प्रभारी अभियंता / SHIFT CHARGE ENGINEER