

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 25.12.2017

Date of Reporting : 26.12.2017



I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
44351	808	45159	50.05	29698	283	29980	49.98	889.31	15.43

\*Half hourly flow 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	Gas/Naphtha/Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	48.23	11.08	0.00	0.08	0.00	0.14	59.52	44.08	43.75	-0.33	103.27	0.00
Haryana	64.75	0.08	0.00	0.00	0.00	0.00	64.83	58.22	58.34	0.12	123.17	0.00
Rajasthan	116.54	4.61	2.12	0.18	4.26	4.94	132.65	72.90	76.92	4.03	209.57	2.44
Delhi	0.00	0.00	13.41	0.00	0.00	0.00	13.41	48.20	48.53	0.33	61.94	0.00
UP	164.24	7.60	0.00	0.00	0.00	20.40	192.24	89.87	89.89	0.02	282.13	2.60
Uttarakhand	0.00	10.32	1.36	0.53	0.00	0.00	12.22	20.63	22.44	1.81	34.66	0.00
HP	0.00	3.35	0.00	0.00	0.00	1.74	5.09	21.43	22.35	0.92	27.44	0.00
J & K	0.00	7.02	0.00	0.00	0.00	0.00	7.02	38.54	36.96	-1.57	43.99	10.39
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.44	3.14	-0.30	3.14	0.00
<b>Total</b>	<b>393.76</b>	<b>44.06</b>	<b>16.89</b>	<b>0.79</b>	<b>4.26</b>	<b>27.22</b>	<b>486.98</b>	<b>397.30</b>	<b>402.33</b>	<b>5.03</b>	<b>889.31</b>	<b>15.43</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	5151	0	-189	-513	2852	0	31	-807	5151	19	0
Haryana	6407	0	-217	-990	3906	0	14	-766	6461	7	0
Rajasthan	9598	0	249	-328	7949	0	159	252	10753	8	445
Delhi	3167	0	-22	-618	1469	0	8	-1021	3810	12	0
UP	14417	260	-183	-187	9937	0	-237	2	14417	19	260
Uttarakhand	1830	0	209	405	1100	0	18	236	1944	9	0
HP	1420	0	71	422	804	0	-20	493	1537	10	0
J&K	2191	548	103	906	1602	283	-140	854	2191	19	548
Chandigarh	170	0	-28	-6	79	0	-3	-31	192	9	0
<b>Total</b>	<b>44351</b>	<b>808</b>	<b>-7</b>	<b>-909</b>	<b>29698</b>	<b>283</b>	<b>-169</b>	<b>-787</b>	<b>44351</b>	<b>19</b>	<b>808</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
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1488	1640	1326	35.29	1470	34.17	1.11
Rihand I STPS (2*500)	1000	867	932	20.04	835	20.67		-0.63
Rihand II STPS (2*500)	1000	943	998	1003	22.65	944	22.44	0.21
Rihand III STPS (2*500)	1000	943	998	865	22.09	921	21.83	0.26
Dadri I STPS (4*210)	840	769	473	478	12.26	511	12.10	0.16
Dadri II STPS (2*490)	980	560	542	272	9.83	409	10.01	-0.18
Unchahar I TPS (2*210)	420	350	377	237	7.25	302	7.30	-0.05
Unchahar II TPS (2*210)	420	383	416	235	7.56	315	7.69	-0.13
Unchahar III TPS (1*210)	210	192	197	116	3.71	155	3.79	-0.08
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajjar) (3*500)	1500	1170	1217	889	23.31	971	23.64	-0.33
Dadri GPS (4*130.19+2*154.51)	830	836	178	114	3.89	162	4.02	-0.13
Anta GPS (3*88.71+1*153.2)	419	418	0	0	0.00	0	0.00	0.00
Auraya GPS (4*111.19+2*109.30)	663	617	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.04	1	0.04	-0.01
Singrauli Solar(15)	15	3	0	0	0.01	0	0.07	-0.06
KHEP(4*200)	800	792	0	0	2.68	112	2.40	0.28
<b>Sub Total (A)</b>	<b>12612</b>	<b>10332</b>	<b>7968</b>	<b>6487</b>	<b>171</b>	<b>7109</b>	<b>170</b>	<b>0.42</b>
<b>B. NPC</b>								
NAPS (2*220)	440	413	448	455	9.94	414	9.88	0.07
RAPS- B (2*220)	440	195	217	218	4.63	193	4.68	-0.05
RAPS- C (2*220)	440	415	233	232	10.08	420	9.96	0.12
<b>Sub Total (B)</b>	<b>1320</b>	<b>1023</b>	<b>898</b>	<b>905</b>	<b>24.65</b>	<b>1027</b>	<b>24.52</b>	<b>0.13</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	534	358	0	1.77	74	1.60	0.17
Chamera II HPS (3*100)	300	198	201	0	1.33	55	1.20	0.13
Chamera III HPS (3*77)	231	228	105	0	0.81	34	0.70	0.11
Bairasuli HPS(3*60)	180	59	124	0	0.46	19	0.36	0.11
Salal-HPS (6*115)	690	103	345	30	3.04	127	2.48	0.57
Tanakpur-HPS (3*31.4)	94	23	17	26	0.58	24	0.54	0.04
Uri-I HPS (4*120)	480	98	250	60	2.66	111	2.35	0.31
Uri-II HPS (4*60)	240	0	0	0	0.00	0	0.00	0.00
Dhauliganga-HPS (4*70)	280	46	210	0	1.16	48	1.11	0.05
Dulhasti-HPS (3*130)	390	257	263	0	3.19	133	3.00	0.19
Sewa-II HPS (3*40)	120	79	77	0	0.54	22	0.50	0.04
Parbati 3 (4*130)	520	16	0	0	0.00	0	0.38	-0.38
<b>Sub Total (C)</b>	<b>4065</b>	<b>1640</b>	<b>1950</b>	<b>116</b>	<b>16</b>	<b>647</b>	<b>14</b>	<b>1.31</b>
<b>D. SJVNL</b>								
NJPC (6*250)	1500	1497	1483	0	6.89	287	6.80	0.09
Rampur HEP (6*68.67)	412	412	415	0	1.93	80	1.90	0.03
<b>Sub Total (D)</b>	<b>1912</b>	<b>1910</b>	<b>1898</b>	<b>0</b>	<b>8.82</b>	<b>367</b>	<b>8.70</b>	<b>0.12</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	988	887	0	10.53	439	10.42	0.11
Koteswar HPS (4*100)	400	150	398	92	3.67	153	3.59	0.08
<b>Sub Total (E)</b>	<b>1400</b>	<b>1138</b>	<b>1285</b>	<b>92</b>	<b>14.20</b>	<b>592</b>	<b>14.01</b>	<b>0.19</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	733	1221	433	17.63	735	17.59	0.04
Dehar HPS (6*165)	990	110	495	0	2.77	115	2.64	0.13
Pong HPS (6*66)	396	244	330	66	5.94	247	5.87	0.07
<b>Sub Total (F)</b>	<b>2765</b>	<b>1088</b>	<b>2046</b>	<b>499</b>	<b>26.34</b>	<b>1097</b>	<b>26.10</b>	<b>0.24</b>
<b>G. IPP(s)/JV(s)</b>								
Allain Duhangan HPS(IPP) (2*96)	192	0	66	0	0.45	19	0.45	0.00
Karcham Wantoo HPS(IPP) (4*250)	1000	0	775	0	3.92	163	3.79	0.13
Malana Stg-II HPS (2*50)	100	0	0	0	0.06	2	0.07	-0.01
Shree Cement TPS (2*150)	300	0	148	89	3.06	127	3.11	-0.06
Budhil HPS(IPP) (2*35)	70	0	0	0	0.15	6	0.18	-0.03
Sainj HPS (IPP) (2*50)	100	0	0	0	0.00	0	0.37	
<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>989</b>	<b>89</b>	<b>7.64</b>	<b>318</b>	<b>7.61</b>	<b>0.03</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25837</b>	<b>17130</b>	<b>17034</b>	<b>8188</b>	<b>267.78</b>	<b>11157</b>	<b>265.34</b>	<b>2.44</b>

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	150	160	3.88	162	
	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	0	0	-0.08	-4	
	Goindwal(GVK) (2*270)	540	246	145	5.10	213	
	Rajpura (2*700)	1400	660	380	14.51	605	
	Talwandi Saboo (3*660)	1980	1228	616	24.84	1035	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>2283</b>	<b>1301</b>	<b>48.23</b>	<b>2010</b>	
	Total Hydro	1000	459	225	11.08	462	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	0.14	6	
	Solar	859	0	0	0.08	3	
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>0.21</b>	<b>9</b>	
	<b>Total Punjab</b>	<b>8722</b>	<b>2742</b>	<b>1526</b>	<b>59.52</b>	<b>2480</b>	
	Haryana	Paripat TPS (2*210+2*250)	920	423	408	9.99	416
		DCRTPP (Yamuna nagar) (2*300)	600	535	474	11.37	474
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	911	381	18.17	757	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1233	738	25.22	1051	
<b>Thermal (Total)</b>		<b>4497</b>	<b>3102</b>	<b>2001</b>	<b>64.75</b>	<b>2698</b>	
Total Hydro		62	1	1	0.08	3	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.00	0	
Solar		50	0	0	0.00	0	
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
<b>Total Haryana</b>		<b>4715</b>	<b>3103</b>	<b>2002</b>	<b>64.83</b>	<b>2701</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1141	939	25.22	1051
		suratgarh TPS (6*250)	1500	438	356	9.87	411
	Chabra TPS (4*250)	1000	455	377	10.47	436	
	Chabra TPS (1*660)	660	0	0	0.00	0	
	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	85	89	2.12	88	
	RAPS A (NPC) (1*100+1*200)	300	218	211	4.46	186	
	Barsingsar (NLC) (2*125)	250	113	113	2.61	109	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	844	437	18.14	756	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1122	841	25.03	1043	
	Kawai(Adani) (2*660)	1320	996	1122	25.21	1050	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>5412</b>	<b>4485</b>	<b>123.12</b>	<b>5130</b>	
	Total Hydro	550	225	118	4.61	192	
	Wind power	4292	88	555	4.26	177	
	Biomass	102	20	20	0.48	20	
	Solar	1995	3	0	0.18	7	
	Renewable/Others (Total)	6389	111	575	4.92	205	
<b>Total Rajasthan</b>	<b>16475</b>	<b>5748</b>	<b>5178</b>	<b>132.65</b>	<b>5527</b>		
UP	Anpara TPS (3*210+2*500)	1630	1346	1048	29.05	1210	
	Obra TPS (2*50+2*94+5*200)	1194	450	392	10.31	430	
	Paricha TPS (2*110+2*220+2*250)	1160	436	440	11.56	482	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqani TPS (1*60+1*105+2*250)	665	268	153	5.56	231	
	Tanda TPS (NTPC) (4*110)	440	387	273	8.22	342	
	Roza TPS (IPP) (4*300)	1200	578	191	12.77	532	
	Anpara-C (IPP) (2*600)	1200	1105	728	21.25	885	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	452	326	8.75	365	
	Lalitpur TPS(3*660)	1980	1795	1138	35.06	1461	
	Bara(2*660)	1320	1020	732	21.73	905	
	<b>Thermal (Total)</b>	<b>12449</b>	<b>7837</b>	<b>5421</b>	<b>164.24</b>	<b>6843</b>	
	Vishnuparvaq_HPS (IPP)(4*110)	440	87	82	2.08	87	
	Alakanada(4*82.5)	330	82	82	1.52	63	
	Other Hydro	527	278	59	4.00	167	
	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>9134</b>	<b>6494</b>	<b>192.24</b>	<b>8010</b>		
Uttarakhand	Other Hydro	1250	661	396	10.32	430	
	Total Gas	450	52	69	1.36	57	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.53	22	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.53</b>	<b>22</b>	
<b>Total Uttarakhand</b>	<b>2107</b>	<b>713</b>	<b>465</b>	<b>12.22</b>	<b>509</b>		
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	40	40	0.93	39	
	Pragati Gas Turbine (2x104+ 1x122)	330	259	274	6.47	269	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	253	248	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>553</b>	<b>562</b>	<b>13.41</b>	<b>559</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>553</b>	<b>562</b>	<b>13.41</b>	<b>559</b>		

HP	Baspa HPS (IPP) (3*100)	300	29	0	1.10	46
	Malana HPS (IPP) (2*43)	86	33	0	0.20	8
	Other Hydro (>25MW)	372	125	38	2.05	86
	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	108	44	1.74	72
	<b>Renewable(Total)</b>	<b>486</b>	<b>108</b>	<b>44</b>	<b>1.74</b>	<b>72</b>
	<b>Total HP</b>	<b>1244</b>	<b>296</b>	<b>82</b>	<b>5.09</b>	<b>212</b>
	<b>Total J &amp; K</b>	<b>1398</b>	<b>363</b>	<b>197</b>	<b>7</b>	<b>293</b>
<b>Total State Control Area Generation</b>		<b>52451</b>	<b>22652</b>	<b>16507</b>	<b>486.98</b>	<b>20291</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>		<b>5875</b>	<b>6665</b>	<b>165.37</b>	<b>6890</b>	<b>8890</b>
<b>Total Regional Availability(Gross)</b>		<b>78288</b>	<b>45560</b>	<b>31360</b>	<b>920.12</b>	<b>38339</b>

**IV. Total Hydro Generation:**

<b>Regional Entities Hydro</b>	<b>12234</b>	<b>8019</b>	<b>707</b>	<b>72.15</b>	<b>3000</b>
<b>State Control Area Hydro</b>	<b>7468</b>	<b>2504</b>	<b>1311</b>	<b>44.06</b>	<b>1987</b>
<b>Total Regional Hydro</b>	<b>19702</b>	<b>10523</b>	<b>2018</b>	<b>116.21</b>	<b>4987</b>

**V. Total Renewable Generation:**

<b>Regional Entities Renewable</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.06</b>	<b>2</b>
<b>State Control Area Renewable</b>	<b>8844</b>	<b>219</b>	<b>619</b>	<b>7.40</b>	<b>308</b>
<b>Total Regional Renewable</b>	<b>8874</b>	<b>219</b>	<b>619</b>	<b>7.46</b>	<b>311</b>

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	Off Peak(03:00 Hrs)	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-50	-250	250	250	1.25	3.99	-2.74
765 KV Gwalior-Agra (D/C)	1959	1509	2761	0	45.43	0.00	45.43
400 KV Zerda-Kankroli	-133	-211	0	274	0.00	3.20	-3.20
400 KV Zerda-Bhimnal	-15	-111	141	212	0.00	0.67	-0.67
220 KV Aurajya-Malanpur	-51	-85	0	172	0.00	2.39	-2.39
220 KV Badod-Kota/Morak	-81	-60	0	32	0.00	1.19	-1.19
Mundra-Mohindergarh(HVDC Bipole)	1499	1499	2008	0	35.82	0.00	35.82
400 KV RAPPCC-Sujalpur	97	58	135	0	4.76	0.00	4.76
400 KV Vindhychal-Rihand	-924	-828	0	980	0.00	22.31	-22.31
765 kV Phagi-Gwalior (D/C)	498	816	1098	0	19.25	0.00	19.25
+/- 800 kV HVDC Champa-Kurushetra	1000	2200	2200	0	35.38	0	35.38
<b>Sub Total WR</b>	<b>3799</b>	<b>4537</b>			<b>141.89</b>	<b>33.75</b>	<b>108.14</b>
400 kV Sasaram - Varanasi	145	169	175	14	2.13	0.00	2.13
400 kV Sasaram - Allahabad	100	73	117	26	1.09	0.00	1.09
400 kV MZP- GKP (D/C)	261	228	553	0	7.41	0.00	7.41
400 kV Patna-Balia(D/C) X 2	762	753	996	0	19.71	0.00	19.71
400 kV B'Sharif-Balia (D/C)	26	59	189	0	2.38	0.00	2.38
765 KV Gaya-Balia	76	175	262	0	3.59	0.00	3.59
765 KV Gaya-Varanasi (D/C)	218	185	527	0	7.15	0.00	7.15
220 KV Pusauli-Sahupuri	143	94	145	0	2.83	0.00	2.83
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-25	-20	0	27	0.00	0.50	-0.50
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-119	-130	153	190	0.00	0.54	-0.54
400 KV Motihari -GKP (D/C)	-240	-196	0	256	0.00	5.06	-5.06
400 kV B'Sharif - Varanasi (D/C)	29	38	138	76	0.39	0.00	0.39
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>1376</b>	<b>1428</b>			<b>47.63</b>	<b>6.10</b>	<b>41.53</b>
+/- 800 KV HVDC BiswanathChariali-Agra	700	700	700	0.00	15.70	0.00	15.70
<b>Sub Total NER</b>	<b>700</b>	<b>700</b>			<b>15.70</b>	<b>0.00</b>	<b>15.70</b>
<b>Total IR Exch</b>	<b>5875</b>	<b>6665</b>			<b>205.23</b>	<b>39.85</b>	<b>165.37</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
44.69	0.41	45.10	-2.13	-32.71	-0.15	5.25	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
42.82	124.21	167.04	57.23	108.14	165.37	14.41	-16.07	-1.67

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	Off Peak(03:00 Hrs)	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	18	10	0	18	0	1	-0.79

**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	1.08	13.15	68.10	77.14	9.07	1.02	0.00	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	Index	0.064	(Hz)	(Hz)	
50.17	12.02	49.73	9.18	49.97	0.051		50.06	49.82	22.86

## VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	>420 kV	>430 kV	
Rihand	400	405	0:31	400	7:30	0.0	0.0	0.0	0.0
Gorakhpur	400	419	3:59	399	17:39	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	4:00	396	2:46	0.0	0.0	0.2	0.0
Kanpur	400	423	4:00	408	10:07	0.0	0.0	6.0	0.0
Dadri	400	428	4:01	408	10:08	0.0	0.0	23.3	0.0
Ballabgarh	400	425	4:01	406	10:07	0.0	0.0	17.6	0.0
Bawana	400	428	4:01	409	10:09	0.0	0.0	22.7	0.0
Bassi	400	423	4:00	397	6:45	0.0	0.0	3.0	0.0
Hissar	400	420	4:00	402	6:23	0.0	0.0	0.0	0.0
Moga	400	423	3:59	405	22:20	0.0	0.0	5.1	0.0
Abdullapur	400	428	4:01	413	6:27	0.0	0.0	39.9	0.0
Nalagarh	400	431	4:01	413	7:20	0.0	0.0	42.9	0.2
Kishenpur	400	423	2:02	399	18:26	0.0	0.0	4.0	0.0
Wagoora	400	404	17:03	370	10:37	14.8	65.8	0.0	14.8
Amritsar	400	430	4:00	410	7:28	0.0	0.0	29.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	413	0:00	413	0:00	0.0	0.0	0.0	0.0
Rishikesh	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0

## VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	>742 kV	>820 kV	
Fatehpur	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Balia	765	790	3:59	757	17:40	0.0	0.0	0.0	0.0
Moga	765	801	4:00	764	22:21	0.0	0.0	0.3	0.0
Agra	765	797	4:02	764	10:08	0.0	0.0	0.0	0.0
Bhiwani	765	803	4:00	777	6:30	0.0	0.0	1.4	0.0
Unnao	765	782	4:00	749	10:08	0.0	0.0	0.0	0.0
Lucknow	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Meerut	765	806	4:00	778	10:06	0.0	0.0	5.9	0.0
Jhatikara	765	804	0:00	770	6:40	0.0	0.0	0.8	0.0
Bareilly 765 kV	765	803	4:00	757	17:23	0.0	0.0	0.7	0.0
Anta	765	790	3:59	763	12:20	0.0	0.0	0.0	0.0
Phagi	765	800	4:00	762	10:21	0.0	0.0	0.0	0.0

Note: '0' in Max / Min Col -&gt; 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	500.20	1101.35	489.62	719.44	141.24	505.63
Pong	426.72	384.05	411.09	534.70	408.86	454.47	82.83	379.70
Tehri	829.79	740.04	812.05	843.28	810.70	816.27	22.62	243.00
Koteshwar	612.50	598.50	610.50	4.83	610.82	4.95	243.00	242.25
Chamera-I	760.00	748.75	758.41	0.00	0.00	0.00	49.58	47.82
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	505.60	3.96	505.75	2.24	42.43	139.88

\* 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	-807	0	0	-513	0	0	-17.00	0.00	-17.00
Delhi	-794	-227	0	-623	5	0	-16.86	0.90	-15.97
Haryana	-908	142	0	-912	-78	0	-27.89	1.22	-26.67
HP	387	107	0	369	53	0	11.95	-1.38	10.56
J&K	785	69	0	768	137	0	18.26	0.42	18.68
CHD	-31	0	0	-31	24	0	-0.37	-0.02	-0.39
Rajasthan	-8	260	0	-8	-320	0	4.33	4.65	8.98
UP	38	-36	0	-121	-66	0	-11.32	-1.52	-12.85
Uttarakhand	217	19	0	217	188	0	5.36	2.16	7.53
Total	-1121	334	0	-853	-56	0	-33.55	6.42	-27.13

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-513	-909	0	0	0	0
Delhi	-573	-797	678	-335	0	0
Haryana	-774	-1552	150	-725	0	0
HP	665	369	107	-797	0	0
J&K	785	739	323	-500	0	0
CHD	0	-31	24	-31	0	0
Rajasthan	368	-8	913	-396	0	0
UP	38	-1155	-36	-72	0	0
Uttarakhand	247	217	463	-219	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. Zero Crossing Violations**

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	1	14
Haryana	0	12
Rajasthan	4	32
Delhi	3	24
UP	0	12
Uttarakhand	3	24
HP	3	24
J & K	5	61
Chandigarh	5	32

**XIII. System Constraints:**

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

**XV. Weather Conditions For 25.12.2017 :**

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

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

**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 : 25.12.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER