

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GH188682

Power Supply Position in Northern Region for 25.01.2018  
Date of Reporting : 26.01.2018



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
43776	547	44323	49.92	30646	285	30931	49.97	900.10	15.47

\*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/Diesel	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	64.24	10.55	0.00	2.61	0.00	2.34	79.74	17.12	17.13	0.00	96.87	0.00
Haryana	54.86	0.11	0.00	0.01	0.00	0.12	55.10	59.93	60.48	0.55	115.58	0.91
Rajasthan	119.69	4.85	4.40	2.62	7.18	4.96	143.70	68.56	71.14	2.58	214.84	3.67
Delhi	0.00	0.00	16.76	0.00	0.00	0.00	16.76	51.84	51.45	-0.39	68.21	0.05
UP	159.42	6.73	0.00	0.00	0.00	21.60	187.75	102.30	103.33	1.02	291.07	0.26
Uttarakhand	0.00	9.51	0.00	0.50	0.00	0.00	10.01	28.16	27.51	-0.65	37.52	0.00
HP	0.00	3.18	0.00	0.00	0.00	1.38	4.57	22.07	23.06	0.99	27.63	0.00
J & K	0.00	3.86	0.00	0.00	0.00	3.86	41.78	40.94	40.94	-0.84	44.80	10.58
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	3.59	0.09	3.59	0.00
<b>Total</b>	<b>398.20</b>	<b>38.78</b>	<b>21.16</b>	<b>5.74</b>	<b>7.18</b>	<b>30.41</b>	<b>501.47</b>	<b>395.26</b>	<b>398.63</b>	<b>3.37</b>	<b>900.10</b>	<b>15.47</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	4638	0	111	-2048	2867	0	-34	-1587	4638	19	0
Haryana	6337	0	38	-631	3859	0	101	-295	6348	20	0
Rajasthan	9656	0	103	-40	8003	0	8	58	10184	8	1763
Delhi	3320	0	-139	-842	1588	0	-9	-1379	3981	12	0
UP	14085	0	236	6	10657	0	156	-43	14085	19	0
Uttarakhand	2001	0	176	911	1116	0	-126	445	2014	9	0
HP	1366	0	41	542	858	0	-25	504	1512	9	0
J&K	2186	547	91	1035	1613	285	-75	874	2202	20	551
Chandigarh	187	0	-24	-11	85	0	6	-31	223	8	0
<b>Total</b>	<b>43776</b>	<b>547</b>	<b>633</b>	<b>-1079</b>	<b>30646</b>	<b>285</b>	<b>2</b>	<b>-1454</b>	<b>43776</b>	<b>19</b>	<b>547</b>

\* STOA figures are at seller's boundary & PX figures are at regional boundary. † figures may not be at simultaneous hour.

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III. Regional Entities :

A. NTPC	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
Rihand I STPS (2*500)	1000	885	913	928	20.69	862	20.99	-0.30	
Rihand II STPS (2*500)	1000	943	1015	1004	22.70	946	22.39	0.31	
Rihand III STPS (2*500)	1000	943	1009	983	22.55	940	22.14	0.41	
Dadri I STPS (4*210)	840	769	772	469	13.52	563	13.71	-0.19	
Dadri II STPS (2*490)	980	929	922	565	18.22	759	18.05	0.17	
Unchahar I TPS (2*210)	420	350	386	237	7.05	294	7.14	-0.09	
Unchahar II TPS (2*210)	420	383	415	240	7.77	324	7.74	0.03	
Unchahar III TPS (1*210)	210	192	209	117	3.88	162	3.92	-0.04	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	948	968	570	18.96	790	19.74	-0.78	
Dadri GPS (4*130.19+2*154.51)	830	838	0	0	0.00	0	0.00	0.00	
Anta GPS (3*88.71+1*153.2)	419	421	0	0	0.00	0	0.00	0.00	
Auraya GPS (4*111.19+2*109.30)	663	652	165	92	3.34	139	3.45	-0.11	
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00	
Unchahar Solar(10)	10	0	0	0	0.01	0	0.01	0.00	
Singrauli Solar(15)	15	3	0	0	0.01	0	0.06	-0.05	
KHEP(4*200)	800	792	867	0	2.68	112	2.38	0.30	
<b>Sub Total (A)</b>	<b>12612</b>	<b>10746</b>	<b>9504</b>	<b>7042</b>	<b>183</b>	<b>7613</b>	<b>182</b>	<b>0.32</b>	
B. NPC	NAPS (2*220)	440	417	444	455	9.89	412	9.97	-0.08
RAPS- B (2*220)	440	194	218	220	4.68	195	4.66	0.02	
RAPS- C (2*220)	440	418	465	466	10.07	420	10.03	0.04	
<b>Sub Total (B)</b>	<b>1320</b>	<b>1029</b>	<b>1127</b>	<b>1141</b>	<b>24.64</b>	<b>1027</b>	<b>24.65</b>	<b>-0.02</b>	
C. NHPC	Chamera I HPS (3*180)	540	534	419	0	1.83	76	1.60	0.23
Chamera II HPS (3*100)	300	296	299	0	1.14	48	0.98	0.16	
Chamera III HPS (3*77)	231	184	232	0	0.79	33	0.65	0.14	
Bairasuli HPS(3*60)	180	59	120	0	0.38	16	0.36	0.02	
Salal-HPS (6*115)	690	70	334	34	2.16	90	1.68	0.48	
Tanakpur-HPS (3*31.4)	94	22	32	24	0.60	25	0.53	0.06	
Uri-I HPS (4*120)	480	68	230	20	1.82	76	1.64	0.18	
Uri-II HPS (4*60)	240	46	37	38	1.14	48	1.10	0.05	
Dhauliganga-HPS (4*70)	280	52	277	0	0.89	37	0.84	0.05	
Dulhasti-HPS (3*130)	390	257	268	0	2.66	111	2.50	0.16	
Sewa-II HPS (3*40)	120	119	120	0	0.31	13	0.36	-0.05	
Parbati 3 (4*130)	520	8	128	0	0.20	8	0.19	0.01	
<b>Sub Total (C)</b>	<b>4065</b>	<b>1714</b>	<b>2495</b>	<b>115</b>	<b>14</b>	<b>580</b>	<b>12</b>	<b>1.49</b>	
D. SJVNL	NJPC (6*250)	1500	1497	1610	0	5.73	239	5.76	-0.03
Rampur HEP (6*68.67)	412	412	449	0	1.60	67	1.60	0.00	
<b>Sub Total (D)</b>	<b>1912</b>	<b>1910</b>	<b>2059</b>	<b>0</b>	<b>7.33</b>	<b>305</b>	<b>7.35</b>	<b>-0.03</b>	
E. THDC	Tehri HPS (4*250)	1000	932	931	0	7.75	323	7.66	0.09
Koteswar HPS (4*100)	400	126	383	92	3.13	130	3.03	0.10	
<b>Sub Total (E)</b>	<b>1400</b>	<b>1058</b>	<b>1314</b>	<b>92</b>	<b>10.88</b>	<b>453</b>	<b>10.69</b>	<b>0.19</b>	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	593	1112	408	14.41	601	14.22	0.19
Dehar HPS (6*165)	990	85	495	0	2.10	87	2.04	0.06	
Pong HPS (6*66)	396	192	330	0	4.60	192	4.60	0.00	
<b>Sub Total (F)</b>	<b>2765</b>	<b>869</b>	<b>1937</b>	<b>408</b>	<b>21.11</b>	<b>880</b>	<b>20.86</b>	<b>0.26</b>	
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	0	0	0.33	14	0.31	0.02
Karcham Wantoo HPS(IPP) (4*250)	1000	0	775	0	3.27	136	3.08	0.19	
Malana Stg-II HPS (2*50)	100	0	0	0	0.19	8	0.18	0.01	
Shree Cement TPS (2*150)	300	0	148	99	2.67	111	3.13	-0.46	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.14	6	0.14	0.00	
Sainji HPS (IPP) (2*50)	100	0	0	0	0.25	0.25	0.25	0.00	
<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>923</b>	<b>99</b>	<b>6.60</b>	<b>275</b>	<b>6.84</b>	<b>-0.24</b>	
<b>H. Total Regional Entities (A-G)</b>	<b>25837</b>	<b>17326</b>	<b>19359</b>	<b>8897</b>	<b>267.18</b>	<b>11132</b>	<b>265.21</b>	<b>1.96</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	210	160	3.81	159	
	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	611	192	7.38	308	
	Goindwal(GVK) (2*270)	540	245	145	5.24	218	
	Rajpura (2*700)	1400	660	560	15.49	645	
	Talwandi Saboo (3*660)	1980	1300	924	32.31	1346	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3026</b>	<b>1981</b>	<b>64.24</b>	<b>2677</b>	
	Total Hydro	1000	549	333	10.55	440	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	2.34	98	
	Solar	859	0	0	2.61	109	
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>4.95</b>	<b>206</b>	
	<b>Total Punjab</b>	<b>8722</b>	<b>3575</b>	<b>2314</b>	<b>79.74</b>	<b>3322</b>	
	Haryana	Paripat TPS (2*210+2*250)	920	0	0	0.00	0
		DCRTPP (Yamuna nagar) (2*300)	600	533	461	11.68	486
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	860	382	17.39	725	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1225	741	25.79	1075	
<b>Thermal (Total)</b>		<b>4497</b>	<b>2618</b>	<b>1584</b>	<b>54.86</b>	<b>2286</b>	
Total Hydro		62	4	7	0.11	5	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.12	5	
Solar		50	0	0	0.01	0	
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>0.13</b>	<b>5</b>	
<b>Total Haryana</b>		<b>4715</b>	<b>2622</b>	<b>1591</b>	<b>55.10</b>	<b>2296</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1147	916	26.37	1099
		suratgarh TPS (6*250)	1500	1125	911	25.34	1056
	Chabra TPS (4*250)	1000	694	676	15.70	654	
	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	185	188	4.40	183	
	RAPS A (NPC) (1*100+1*200)	300	194	193	4.47	186	
	Barsingsar (NLC) (2*125)	250	219	219	5.76	240	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	833	832	20.03	835	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1138	1069	26.48	1103	
	Kawai(Adani) (2*660)	1320	0	0	0.00	0	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>5535</b>	<b>5004</b>	<b>128.56</b>	<b>5357</b>	
	Total Hydro	550	269	150	4.85	202	
	Wind power	4292	262	279	7.18	299	
	Biomass	102	20	20	0.49	20	
	Solar	1995	0	0	2.62	109	
	Renewable/Others (Total)	6389	282	299	10.29	429	
	<b>Total Rajasthan</b>	<b>16475</b>	<b>6086</b>	<b>5453</b>	<b>143.70</b>	<b>5988</b>	
UP	Anpara TPS (3*210+2*500)	1630	1347	1158	33.96	1415	
	Obra TPS (2*50+2*94+5*200)	1194	465	385	10.41	434	
	Paricha TPS (2*110+2*220+2*250)	1160	777	592	18.24	760	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqani TPS (1*60+1*105+2*250)	665	420	319	8.95	373	
	Tanda TPS (NTPC) (4*110)	440	397	274	8.58	358	
	Roza TPS (IPP) (4*300)	1200	1056	764	21.09	879	
	Anpara-C (IPP) (2*600)	1200	1110	1095	26.35	1098	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	450	450	10.80	450	
	Lalitpur TPS(3*660)	1980	324	325	7.77	324	
	Bara(2*660)	1320	591	561	13.27	553	
	<b>Thermal (Total)</b>	<b>12449</b>	<b>6937</b>	<b>5923</b>	<b>159.42</b>	<b>6642</b>	
	Vishnuparvaq_HPS (IPP)(4*110)	440	73	73	1.75	73	
	Alaknanda(4*82.5)	330	79	0	1.28	53	
	Other Hydro	527	185	117	3.71	155	
	Cogeneration	981	900	900	21.60	900	
	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>8174</b>	<b>7013</b>	<b>187.75</b>	<b>7823</b>	
	Uttarakhand	Other Hydro	1250	570	359	9.51	396
		Total Gas	450	0	0	0.00	0
		Wind Power	0	0	0	0.00	0
Biomass		127	0	0	0.00	0	
Solar		100	0	0	0.50	21	
Small Hydro (< 25 MW)		180	0	0	0.00	0	
<b>Renewable(Total)</b>		<b>407</b>	<b>0</b>	<b>0</b>	<b>0.50</b>	<b>21</b>	
<b>Total Uttarakhand</b>	<b>2107</b>	<b>570</b>	<b>359</b>	<b>10.01</b>	<b>417</b>		
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	141	41	2.68	111	
	Pragati Gas Turbine (2x104+ 1x122)	330	262	272	6.62	276	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	254	456	7.47	311	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>657</b>	<b>768</b>	<b>16.76</b>	<b>698</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>657</b>	<b>768</b>	<b>16.76</b>	<b>698</b>		

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.15	48	
	Malana HPS (IPP) (2*43)	86	0	0	0.22	9	
	Other Hydro (>25MW)	372	137	33	1.82	76	
	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	113	28	1.38	58	
	<b>Renewable(Total)</b>	<b>486</b>	<b>113</b>	<b>28</b>	<b>1.38</b>	<b>58</b>	
	<b>Total HP</b>	<b>1244</b>	<b>250</b>	<b>61</b>	<b>4.57</b>	<b>190</b>	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	118	118	2.84	118
		Other Hydro/IPP(including 98 MW Small Hydro)	308	82	20	1.02	42
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>200</b>	<b>138</b>	<b>4</b>	<b>161</b>		
<b>Total State Control Area Generation</b>		<b>52451</b>	<b>22134</b>	<b>17698</b>	<b>501.47</b>	<b>20895</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>4943</b>	<b>6357.32</b>	<b>161.07</b>	<b>6711</b>	
<b>Total Regional Availability(Gross)</b>		<b>78288</b>	<b>46436</b>	<b>32952</b>	<b>929.72</b>	<b>38738</b>	

**IV. Total Hydro Generation:**

<b>Regional Entities Hydro</b>	<b>12234</b>	<b>9447</b>	<b>615</b>	<b>59.83</b>	<b>2487</b>
<b>State Control Area Hydro</b>	<b>7468</b>	<b>2179</b>	<b>1238</b>	<b>38.78</b>	<b>1694</b>
<b>Total Regional Hydro</b>	<b>19702</b>	<b>11626</b>	<b>1854</b>	<b>98.62</b>	<b>4182</b>

**V. Total Renewable Generation:**

<b>Regional Entities Renewable</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.04</b>	<b>2</b>
<b>State Control Area Renewable</b>	<b>8844</b>	<b>395</b>	<b>327</b>	<b>17.25</b>	<b>719</b>
<b>Total Regional Renewable</b>	<b>8874</b>	<b>395</b>	<b>327</b>	<b>17.29</b>	<b>720</b>

**VI(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)	-250	-250	50	250	0.18	4.86	-4.68
765 KV Gwalior-Agra (D/C)	1744	2165	2731	0	48.63	0.00	48.63
400 KV Zerda-Kankroli	-127	-146	0	189	0.00	2.99	-2.99
400 KV Zerda-Bhimnal	-79	-78	66	171	0.00	1.10	-1.10
220 KV Auraja-Malanpur	-159	-80	0	162	0.00	2.95	-2.95
220 KV Badod-Kota/Morak	-83	-68	38	80	0.00	1.35	-1.35
Mundra-Mohindergarh(HVDC Bipole)	597	600	803	0	17.31	0.00	17.31
400 KV RAPPCC-Sujalpur	219	139	294	0	4.30	0.00	4.30
400 KV Vindhyachal-Rihand	-953	-942	0	975	0.00	22.78	-22.78
765 kV Phagi-Gwalior (D/C)	859	1177	683	0	27.97	0.00	27.97
+/- 800 kV HVDC Champa-Kurushetra	2000	2500	2500	0	54.63	0	54.63
<b>Sub Total WR</b>	<b>3768</b>	<b>5017</b>			<b>153.00</b>	<b>36.03</b>	<b>116.97</b>
400 kV Sasaram - Varanasi	156	162	168	0	3.67	0.00	3.67
400 kV Sasaram - Allahabad	86	81	111	0	2.11	0.00	2.11
400 kV MZP- GKP (D/C)	163	218	408	0	6.48	0.00	6.48
400 kV Patna-Balia(D/C) X 2	583	659	970	0	18.21	0.00	18.21
400 kV B'Sharif-Balia (D/C)	81	95	279	0	4.08	0.00	4.08
765 KV Gaya-Balia	106	122	240	0	3.95	0.00	3.95
765 KV Gaya-Varanasi (D/C)	187	157	534	0	7.61	0.00	7.61
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.48	-0.48
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	92	72	199	92	0.80	0.00	0.80
400 KV Motihari -GKP (D/C)	226	266	400	0	6.79	0.00	6.79
400 kV B'Sharif - Varanasi (D/C)	-5	8	210	28	2.01	0.00	2.01
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>1675</b>	<b>1840</b>			<b>56.66</b>	<b>0.48</b>	<b>56.19</b>
+/- 800 KV HVDC BiswanathChariali-Agra	-500	-500	0	500.00	0.00	12.08	-12.08
<b>Sub Total NER</b>	<b>-500</b>	<b>-500</b>			<b>0.00</b>	<b>12.08</b>	<b>-12.08</b>
<b>Total IR Exch</b>	<b>4943</b>	<b>6357</b>			<b>209.66</b>	<b>48.59</b>	<b>161.07</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
46.86	0.30	47.15	-3.90	-31.14	4.87	-1.87	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
48.13	116.91	165.04	44.10	116.97	161.07	-4.03	0.06	-3.97

**VI(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	-40	-30	0	40	0	1	-0.81

**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	1.47	21.06	81.31	72.47	5.20	1.32	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			(Hz)	(Hz)	
50.14	13.00	49.73	6.44	49.95	0.071	0.065	50.08	49.83	27.53

## 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	<390 kV	>420 kV	
Rihand	400	405	13:01	399	6:48	0.0	0.0	0.0	0.0
Gorakhpur	400	417	4:01	398	18:13	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	3:59	403	7:18	0.0	0.0	0.0	0.0
Kanpur	400	421	3:59	407	6:41	0.0	0.0	0.3	0.0
Dadri	400	428	4:02	410	6:40	0.0	0.0	35.5	0.0
Ballabgarh	400	426	4:01	405	6:43	0.0	0.0	19.0	0.0
Bawana	400	429	4:00	408	18:34	0.0	0.0	32.3	0.0
Bassi	400	426	4:01	401	6:40	0.0	0.0	6.8	0.0
Hissar	400	422	4:00	400	6:41	0.0	0.0	0.3	0.0
Moga	400	423	4:00	404	6:40	0.0	0.0	3.4	0.0
Abdullapur	400	428	4:01	409	6:40	0.0	0.0	35.2	0.0
Nalagarh	400	431	2:00	411	6:43	0.0	0.0	50.9	0.4
Kishenpur	400	424	2:00	405	18:23	0.0	0.0	11.7	0.0
Wagoora	400	411	12:45	384	18:13	0.0	16.5	0.0	0.0
Amritsar	400	432	2:00	413	6:41	0.0	0.0	44.7	1.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	423	2:01	406	18:55	0.0	0.0	7.7	0.0
Rishikesh	400	420	3:57	396	18:24	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	>800 kV	
Fatehpur	765	781	21:56	743	6:41	0.0	0.0	0.0	0.0
Balia	765	786	3:01	762	6:39	0.0	0.0	0.0	0.0
Moga	765	805	13:02	760	6:42	0.0	0.0	1.1	0.0
Agra	765	795	4:01	762	7:22	0.0	0.0	0.0	0.0
Bhiwani	765	809	4:00	774	6:39	0.0	0.0	24.9	0.0
Unnao	765	777	4:00	751	10:12	0.0	0.0	0.0	0.0
Lucknow	765	794	4:00	767	18:13	0.0	0.0	0.0	0.0
Meerut	765	810	4:00	771	6:40	0.0	0.0	28.6	0.0
Jhatikara	765	810	4:00	772	6:42	0.0	0.0	18.0	0.0
Bareilly 765 kV	765	800	4:00	770	6:42	0.0	0.0	0.0	0.0
Anta	765	799	4:00	768	6:41	0.0	0.0	0.0	0.0
Phagi	765	805	4:02	762	7:02	0.0	0.0	5.0	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	493.05	838.00	483.03	536.06	171.01	425.15
Pong	426.72	384.05	406.78	397.88	405.33	352.07	66.43	313.81
Tehri	829.79	740.04	797.90	574.71	797.70	571.54	46.24	191.00
Koteshwar	612.50	598.50	610.82	4.95	610.25	4.69	191.00	206.45
Chamera-I	760.00	748.75	757.00	0.00	0.00	0.00	43.13	49.28
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	497.69	3.98	502.66	1.40	40.18	135.28

\* 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	-1485	-102	0	-1485	-563	0	-36.62	-6.07	-42.69
Delhi	-891	-488	0	-746	-96	0	-19.16	-3.13	-22.29
Haryana	-474	179	0	-740	109	0	-20.44	2.32	-18.13
HP	410	95	0	391	152	0	12.69	-1.29	11.41
J&K	796	78	0	796	239	0	18.75	2.47	21.22
CHD	-31	0	0	-31	19	0	-0.37	0.18	-0.19
Rajasthan	-96	154	0	-96	57	0	-0.74	4.48	3.74
UP	29	-71	0	72	-66	0	0.74	-1.62	-0.88
Uttarakhand	410	35	0	410	501	0	9.95	6.48	16.44
Total	-1333	-121	0	-1430	350	0	-35.21	3.83	-31.38

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-1475	-1587	-102	-1024	0	0
Delhi	-598	-912	445	-489	0	0
Haryana	-474	-1303	181	11	0	0
HP	805	260	176	-640	0	0
J&K	796	767	400	-476	0	0
CHD	0	-31	39	-26	0	0
Rajasthan	61	-96	943	-73	0	0
UP	82	-61	-66	-71	0	0
Uttarakhand	467	410	558	-90	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	0	12
Haryana	0	11
Rajasthan	2	15
Delhi	2	18
UP	3	25
Uttarakhand	2	23
HP	6	25
J & K	5	35
Chandigarh	5	39

**XIII. System Constraints:**

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

**XV. Weather Conditions For 25.01.2018 :**

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

1. First time charging and synchronization of 220 KV Jaipur South-Goner,Rajasthan at 13:27 hrs. on 26.01.2018.2. First time charging of 765 KV, 3 X 500 MVA ICT-1 charged along with bay No. 707,708,709 at Hapur,UP sub-station from HV side.

**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 : 25.01.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER