

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GH188682

Power Supply Position in Northern Region for 27.02.2018  
Date of Reporting : 28.02.2018



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
41473	521	41993	49.95	32702	203	32905	50.00	916.78	10.84

\*Half hourly (one 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	74.62	10.13	0.00	2.92	0.00	2.77	90.44	26.99	27.52	0.53	117.96	0.00
Haryana	51.41	0.08	0.00	0.16	0.00	1.19	52.84	70.07	71.99	1.92	124.83	0.71
Rajasthan	118.45	4.24	4.07	2.46	1.83	5.09	136.15	66.96	70.40	3.44	206.55	0.88
Delhi	0.00	0.00	16.48	0.00	0.00	0.00	16.48	49.18	48.75	-0.43	65.22	0.01
UP	159.38	7.10	0.00	0.00	0.00	21.60	188.08	107.55	107.42	-0.14	295.49	0.00
Uttarakhand	0.00	7.36	0.00	0.73	0.00	0.00	8.10	25.92	25.89	-0.03	33.99	0.00
HP	0.00	2.83	0.00	0.00	0.00	1.57	4.40	21.43	21.84	0.41	26.24	0.00
J & K	0.00	4.24	0.00	0.00	0.00	0.00	4.24	40.38	39.17	-1.21	43.41	9.24
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.17	3.10	-0.07	3.10	0.00
<b>Total</b>	<b>403.85</b>	<b>35.97</b>	<b>20.55</b>	<b>6.28</b>	<b>1.83</b>	<b>32.22</b>	<b>500.70</b>	<b>411.64</b>	<b>416.08</b>	<b>4.43</b>	<b>916.78</b>	<b>10.84</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	5589	0	-2	-1562	3327	0	49	-1002	5589	19	0
Haryana	6045	0	36	-634	4283	0	159	-420	6771	7	0
Rajasthan	7974	0	-54	-166	8074	0	110	29	10534	8	706
Delhi	3015	0	-194	-682	1636	0	1	-1023	3398	12	0
UP	13795	0	384	1380	11687	0	45	2	14357	20	470
Uttarakhand	1745	0	39	651	1211	0	0	613	1844	7	0
HP	1173	0	-89	407	814	0	20	488	1490	8	0
J&K	1970	521	16	922	1596	203	-92	750	2033	20	548
Chandigarh	165	0	-17	-36	74	0	1	-36	190	9	0
<b>Total</b>	<b>41473</b>	<b>521</b>	<b>120</b>	<b>281</b>	<b>32702</b>	<b>203</b>	<b>293</b>	<b>-597</b>	<b>44483</b>	<b>8</b>	<b>420</b>

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

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	870	939	962	20.99	875	20.86	0.13	
Rihand II STPS (2*500)	1000	943	1012	1008	22.83	951	22.56	0.27	
Rihand III STPS (2*500)	1000	943	999	1000	22.62	943	22.41	0.21	
Dadri I STPS (4*210)	840	769	479	474	12.56	523	12.82	-0.26	
Dadri II STPS (2*490)	980	464	541	298	8.80	367	8.76	0.04	
Unchahar I TPS (2*210)	420	382	363	278	7.78	324	7.94	-0.16	
Unchahar II TPS (2*210)	420	382	351	241	7.43	310	7.45	-0.02	
Unchahar III TPS (1*210)	210	87	0	114	1.22	51	1.40	-0.18	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	948	848	585	18.35	765	18.57	-0.22	
Dadri GPS (4*130.19+2*154.51)	830	815	143	114	3.38	141	3.35	0.03	
Anta GPS (3*88.71+1*153.2)	419	416	0	0	0.00	0	0.00	0.00	
Auraya GPS (4*111.19+2*109.30)	663	655	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	0.06	2	0.06	0.00	
Singrauli Solar(15)	15	3	0	0	0.08	3	0.07	0.01	
KHEP(4*200)	800	792	860	0	2.59	108	2.38	0.22	
<b>Sub Total (A)</b>	<b>12612</b>	<b>10151</b>	<b>8386</b>	<b>6899</b>	<b>170</b>	<b>7065</b>	<b>169</b>	<b>0.64</b>	
NAPS (2*220)	440	403	439	448	9.73	405	9.65	0.08	
RAPS- B (2*220)	440	393	436	437	9.44	393	9.32	0.12	
RAPS- C (2*220)	440	200	235	233	4.88	203	4.80	0.08	
<b>Sub Total (B)</b>	<b>1320</b>	<b>996</b>	<b>1110</b>	<b>1118</b>	<b>24.05</b>	<b>1002</b>	<b>23.77</b>	<b>0.28</b>	
Chamera I HPS (3*180)	540	534	549	0	1.98	82	1.80	0.18	
Chamera II HPS (3*100)	300	296	303	0	1.35	56	1.20	0.15	
Chamera III HPS (3*77)	231	228	231	0	0.76	32	0.69	0.07	
Bairasuli HPS(3*60)	180	59	121	0	1.11	46	0.73	0.38	
Salal-HPS (6*115)	690	94	430	30	2.98	124	2.27	0.72	
Tanakpur-HPS (3*31.4)	94	18	33	17	0.49	20	0.44	0.05	
Uri-I HPS (4*120)	480	120	271	85	3.15	131	2.88	0.27	
Uri-II HPS (4*60)	240	79	39	74	1.94	81	1.89	0.06	
Dhauliganga-HPS (4*70)	280	277	281	0	0.79	33	0.84	-0.05	
Dulhasti-HPS (3*130)	390	385	406	0	3.00	125	2.70	0.29	
Sewa-II HPS (3*40)	120	119	122	0	2.20	92	2.14	0.06	
Parbati 3 (4*130)	520	16	129	0	0.42	17	0.39	0.03	
<b>Sub Total (C)</b>	<b>4065</b>	<b>2225</b>	<b>2915</b>	<b>205</b>	<b>20</b>	<b>841</b>	<b>18</b>	<b>2.21</b>	
NJPC (6*250)	1500	1263	1250	0	6.13	255	6.00	0.13	
Rampur HEP (6*68.67)	412	344	353	0	1.74	73	1.68	0.07	
<b>Sub Total (D)</b>	<b>1912</b>	<b>1607</b>	<b>1603</b>	<b>0</b>	<b>7.87</b>	<b>328</b>	<b>7.68</b>	<b>0.20</b>	
Tehri HPS (4*250)	1000	816	812	0	7.41	309	7.38	0.02	
Koteswar HPS (4*100)	400	126	399	92	3.09	129	3.03	0.06	
<b>Sub Total (E)</b>	<b>1400</b>	<b>942</b>	<b>1211</b>	<b>92</b>	<b>10.50</b>	<b>437</b>	<b>10.41</b>	<b>0.09</b>	
Bhakra HPS (2*108+3*126+5*157)	1379	707	1171	402	17.14	714	16.97	0.17	
Dehar HPS (6*165)	990	122	495	0	3.06	128	2.92	0.14	
Pong HPS (6*66)	396	234	305	61	5.75	240	5.62	0.13	
<b>Sub Total (F)</b>	<b>2765</b>	<b>1063</b>	<b>1971</b>	<b>463</b>	<b>25.95</b>	<b>1081</b>	<b>25.51</b>	<b>0.44</b>	
Allain Duhangan HPS(IPP) (2*96)	192	0	0	0	0.34	14	0.33	0.02	
Karcham Wantoo HPS(IPP) (4*250)	1000	0	0	0	3.35	140	3.20	0.15	
Malana Stg-II HPS (2*50)	100	0	0	0	0.17	7	0.18	-0.02	
Shree Cement TPS (2*150)	300	0	147	100	3.18	133	3.20	-0.02	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.14	6	0.14	0.01	
Sainj 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>147</b>	<b>100</b>	<b>7.19</b>	<b>300</b>	<b>7.05</b>	<b>0.14</b>	
<b>H. Total Regional Entities (A-G)</b>	<b>25837</b>	<b>16984</b>	<b>17343</b>	<b>8877</b>	<b>265.31</b>	<b>11054</b>	<b>261.31</b>	<b>3.99</b>	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average S entout MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	210	160	4.08	170	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.01	-1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	211	170	4.14	173	
	Goindwal(GVK) (2*270)	540	230	145	4.80	200	
	Rajpura (2*700)	1400	1320	660	28.77	1199	
	Talwandi Saboo (3*660)	1980	1550	924	32.84	1368	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3521</b>	<b>2059</b>	<b>74.62</b>	<b>3109</b>	
	Total Hydro	1000	463	270	10.13	422	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	2.77	115	
	Solar	859	0	0	2.92	122	
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>5.69</b>	<b>237</b>	
	<b>Total Punjab</b>	<b>8722</b>	<b>3984</b>	<b>2329</b>	<b>90.44</b>	<b>3768</b>	
	Haryana	Paripat TPS (2*210+2*250)	920	0	0	0.00	0
		DCRTPP (Yamuna nagar) (2*300)	600	266	239	6.01	250
		Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
		RGTPP (khedar) (IPP) (2*600)	1200	785	760	20.01	834
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLIP) (2*660)		1320	1128	736	25.40	1058	
<b>Thermal (Total)</b>		<b>4497</b>	<b>2179</b>	<b>1735</b>	<b>51.41</b>	<b>2142</b>	
Total Hydro		62	0	3	0.08	3	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	1.19	49	
Solar		50	0	0	0.16	7	
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>1.35</b>	<b>56</b>	
<b>Total Haryana</b>		<b>4715</b>	<b>2179</b>	<b>1738</b>	<b>52.84</b>	<b>2202</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	831	824	21.63	901
		suratgarh TPS (6*250)	1500	717	714	18.69	779
		Chabra TPS (4*250)	1000	1183	1162	27.35	1140
		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	177	179	4.07	170	
	RAPS A (NPC) (1*100+1*200)	300	192	190	4.45	186	
	Barsingsar (NLC) (2*125)	250	212	212	4.93	206	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	950	825	20.83	868	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	919	1113	25.02	1042	
	Kawai(Adani) (2*660)	1320	0	0	0.00	0	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>5181</b>	<b>5219</b>	<b>126.97</b>	<b>5291</b>	
	Total Hydro	550	154	126	4.24	177	
	Wind power	4292	51	114	1.83	76	
	Biomass	102	27	27	0.64	27	
	Solar	1995	0	0	2.46	103	
	Renewable/Others (Total)	6389	78	141	4.94	206	
	<b>Total Rajasthan</b>	<b>16475</b>	<b>5413</b>	<b>5486</b>	<b>136.15</b>	<b>5673</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1369	1345	34.00	1417
Obra TPS (2*50+2*94+5*200)		1194	369	299	7.70	321	
Paricha TPS (2*110+2*220+2*250)		1160	897	886	20.40	850	
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaqani TPS (1*60+1*105+2*250)		665	530	516	12.00	500	
Tanda TPS (NTPC) (4*110)		440	400	390	8.98	374	
Roza TPS (IPP) (4*300)		1200	964	778	21.20	883	
Anpara-C (IPP) (2*600)		1200	1018	1027	23.90	996	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	897	893	21.60	900	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(3*660)		1980	396	405	9.60	400	
<b>Thermal (Total)</b>		<b>13109</b>	<b>6840</b>	<b>6539</b>	<b>159.38</b>	<b>6641</b>	
Vishnuparvag_HPS (IPP)(4*110)		440	63	68	1.60	67	
Alaknanda(4*82.5)		330	79	0	1.10	46	
Other Hydro		527	214	152	4.40	183	
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>15515</b>	<b>8096</b>	<b>7659</b>	<b>188.08</b>	<b>7837</b>		
Uttarakhand	Other Hydro	1250	543	251	7.36	307	
	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	0.73	31	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.73</b>	<b>31</b>	
	<b>Total Uttarakhand</b>	<b>2107</b>	<b>543</b>	<b>251</b>	<b>8.10</b>	<b>337</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	42	40	0.91	38	
	Pragati Gas Turbine (2x104+ 1x122)	330	260	264	6.60	275	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	249	247	8.97	374	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>551</b>	<b>551</b>	<b>16.48</b>	<b>686</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>551</b>	<b>551</b>	<b>16.48</b>	<b>686</b>	

HP	Baspa HPS (IPP) (3*100)	300	28	0	0.95	40	
	Malana HPS (IPP) (2*43)	86	0	0	0.22	9	
	Other Hydro (>25MW)	372	98	29	1.66	69	
	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	104	35	1.57	65	
	<b>Renewable(Total)</b>	<b>486</b>	<b>104</b>	<b>35</b>	<b>1.57</b>	<b>65</b>	
	<b>Total HP</b>	<b>1244</b>	<b>230</b>	<b>65</b>	<b>4.40</b>	<b>183</b>	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	122	122	2.93	122
		Other Hydro/IPP(including 98 MW Small Hydro)	308	91	37	1.31	55
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>213</b>	<b>159</b>	<b>4</b>	<b>177</b>		
<b>Total State Control Area Generation</b>		<b>53111</b>	<b>21209</b>	<b>18238</b>	<b>500.70</b>	<b>20862</b>	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		<b>5733</b>	<b>6841</b>	<b>172.76</b>	<b>7198</b>	<b>7198</b>	
<b>Total Regional Availability(Gross)</b>		<b>78948</b>	<b>44285</b>	<b>33956</b>	<b>938.77</b>	<b>39115</b>	

**IV. Total Hydro Generation:**

<b>Regional Entities Hydro</b>	<b>12234</b>	<b>8560</b>	<b>760</b>	<b>71.09</b>	<b>2956</b>
<b>State Control Area Hydro</b>	<b>7468</b>	<b>1959</b>	<b>1094</b>	<b>35.97</b>	<b>1595</b>
<b>Total Regional Hydro</b>	<b>19702</b>	<b>10519</b>	<b>1854</b>	<b>107.07</b>	<b>4551</b>

**V. Total Renewable Generation:**

<b>Regional Entities Renewable</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.16</b>	<b>7</b>
<b>State Control Area Renewable</b>	<b>8844</b>	<b>182</b>	<b>176</b>	<b>14.28</b>	<b>595</b>
<b>Total Regional Renewable</b>	<b>8874</b>	<b>182</b>	<b>176</b>	<b>14.44</b>	<b>602</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)	-250	-250	0	250	0.00	6.06	-6.06
765 KV Gwalior-Agra (D/C)	1613	2133	2507	0	49.61	0.00	49.61
400 KV Zerda-Kankroli	-306	-136	0	306	0.00	4.48	-4.48
400 KV Zerda-Bhinmal	-199	-63	72	291	0.00	2.30	-2.30
220 KV Auraja-Malanpur	-117	-99	0	161	0.00	2.52	-2.52
220 KV Badod-Kota/Morak	-148	-59	0	148	0.00	1.39	-1.39
Mundra-Mohindergarh(HVDC Bipole)	798	502	1003	0	18.13	0.00	18.13
400 KV RAPPCC-Sujalpur	203	310	328	0	5.96	0.00	5.96
400 KV Vindhychal-Rihand	-876	-952	0	968	0.00	22.86	-22.86
765 kV Phagi-Gwalior (D/C)	717	1186	1336	0	26.82	0.00	26.82
+/- 800 kV HVDC Champa-Kurushetra	2000	2000	2500	0	49.38	0	49.38
<b>Sub Total WR</b>	<b>3435</b>	<b>4572</b>			<b>149.90</b>	<b>39.60</b>	<b>110.30</b>
400 kV Sasaram - Varanasi	139	137	144	0	3.28	0.00	3.28
400 kV Sasaram - Allahabad	55	56	77	0	1.52	0.00	1.52
400 kV MZP- GKP (D/C)	73	172	300	0	3.75	0.00	3.75
400 kV Patna-Balia(D/C) X 2	495	615	759	0	14.70	0.00	14.70
400 kV B'Sharif-Balia (D/C)	72	128	234	0	3.66	0.00	3.66
765 KV Gaya-Balia	196	205	371	0	6.34	0.00	6.34
765 KV Gaya-Varanasi (D/C)	292	174	408	0	6.64	0.00	6.64
220 KV Pusauli-Sahupuri	165	132	165	0	3.43	0.00	3.43
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-23	-14	0	24	0.00	0.46	-0.46
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	118	47	115	118	0.48	0.00	0.48
400 KV Motihari -GKP (D/C)	160	110	314	0	6.21	0.00	6.21
400 kV B'Sharif - Varanasi (D/C)	56	7	156	50	1.13	0.00	1.13
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>1798</b>	<b>1769</b>			<b>51.14</b>	<b>0.46</b>	<b>50.67</b>
+/- 800 KV HVDC BiswanathChariali-Agra	500	500	500	0.00	11.79	0.00	11.79
<b>Sub Total NER</b>	<b>500</b>	<b>500</b>			<b>11.79</b>	<b>0.00</b>	<b>11.79</b>
<b>Total IR Exch</b>	<b>5733</b>	<b>6841</b>			<b>212.82</b>	<b>40.06</b>	<b>172.76</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
54.69	0.10	54.79	-9.63	-18.66	9.39	-2.29	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
54.56	122.31	176.87	62.46	110.30	172.76	7.91	-12.01	-4.11

**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	-38	-35	0	40	0	1	-0.89

**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	0.00	10.61	73.67	83.02	5.95	0.45	0.00	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)	
50.18	12.02	49.72	21.08	49.97	0.041	0.055	50.06	49.84	16.98

## 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	401	0:00	401	0:00	0.0	0.0	0.0	0.0
Gorakhpur	400	417	12:01	396	19:17	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	12:01	384	15:32	0.0	0.0	0.0	0.0
Kanpur	400	422	12:01	406	7:13	0.0	0.0	0.3	0.0
Dadri	400	425	4:01	407	7:13	0.0	0.0	15.2	0.0
Ballabgarh	400	425	4:02	406	7:13	0.0	0.0	12.9	0.0
Bawana	400	427	4:01	406	7:14	0.0	0.0	21.8	0.0
Bassi	400	418	4:01	392	6:22	0.0	0.0	0.0	0.0
Hissar	400	422	4:00	398	7:09	0.0	0.0	0.4	0.0
Moga	400	419	3:59	400	7:08	0.0	0.0	0.0	0.0
Abdullapur	400	429	4:01	407	7:14	0.0	0.0	26.1	0.0
Nalagarh	400	429	4:00	410	7:09	0.0	0.0	23.1	0.0
Kishenpur	400	419	3:59	403	7:06	0.0	0.0	0.0	0.0
Wagoora	400	402	4:01	387	18:50	0.0	13.5	0.0	0.0
Amritsar	400	428	4:00	408	7:23	0.0	0.0	21.5	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	417	20:07	410	19:16	0.0	0.0	0.0	0.0
Rishikesh	400	410	23:29	110	17:45	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	>820 kV	
Fatehpur	765	788	12:02	742	7:16	0.0	0.0	0.0	0.0	
Balia	765	789	12:02	755	19:18	0.0	0.0	0.0	0.0	
Moga	765	794	12:01	755	7:13	0.0	0.0	0.0	0.0	
Agra	765	798	12:02	767	22:17	0.0	0.0	0.0	0.0	
Bhiwani	765	805	3:59	774	6:50	0.0	0.0	15.6	0.0	
Unnao	765	777	12:02	747	19:17	0.0	0.0	0.0	0.0	
Lucknow	765	803	12:01	762	19:17	0.0	0.0	2.3	0.0	
Meerut	765	807	12:02	767	7:13	0.0	0.0	6.4	0.0	
Jhatikara	765	809	4:01	773	7:14	0.0	0.0	10.7	0.0	
Bareilly 765 kV	765	802	12:02	763	15:32	0.0	0.0	0.5	0.0	
Anta	765	795	4:00	764	10:46	0.0	0.0	0.0	0.0	
Phagi	765	800	4:00	762	10:49	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	484.49	577.33	474.38	340.29	160.16	552.40
Pong	426.72	384.05	401.10	244.95	400.62	230.85	51.82	409.32
Tehri	829.79	740.04	783.20	361.52	781.20	335.67	41.47	200.00
Koteshwar	612.50	598.50	610.49	4.80	609.78	4.44	200.00	204.39
Chamera-I	760.00	748.75	755.03	0.00	0.00	0.00	52.55	53.43
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 Saagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	495.98	2.20	505.17	1.94	51.33	71.72

\* 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	-900	-102	0	-1053	-509	0	-23.23	-9.88	-33.11
Delhi	-643	-380	0	-570	-112	0	-15.55	-4.05	-19.61
Haryana	-489	69	0	-640	6	0	-16.38	-0.18	-16.56
HP	436	52	0	479	-72	0	13.71	-2.10	11.61
J&K	575	176	0	575	347	0	13.38	4.21	17.59
CHD	-36	0	0	-36	0	0	-0.43	-0.13	-0.56
Rajasthan	-91	120	0	-91	-74	0	-0.63	2.06	1.42
UP	41	-38	0	-1	1381	0	-3.62	8.95	5.33
Uttarakhand	218	395	0	218	433	0	5.35	8.84	14.19
Total	-889	292	0	-1119	1400	0	-27.41	7.72	-19.69

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-900	-1053	-102	-1323	0	0
Delhi	-567	-703	272	-572	0	0
Haryana	-489	-912	70	-480	0	0
HP	781	356	54	-555	0	0
J&K	575	540	411	-432	0	0
CHD	0	-36	0	-36	0	0
Rajasthan	65	-91	970	-835	0	0
UP	60	-433	1653	-38	0	0
Uttarakhand	276	218	503	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%
----------------	-------

**XII. Zero Crossing Violations**

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	2	17
Haryana	1	13
Rajasthan	4	21
Delhi	3	43
UP	0	11
Uttarakhand	5	31
HP	2	28
J & K	4	23
Chandigarh	4	36

**XIII. System Constraints:**

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

**XV. Weather Conditions For 27.02.2018 :**

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

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

1. First time charging: 400 kV line reactor of RAPP-D at Jaipur south first time charged at 15.16 Hrs on 27.02.2018.

**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 : 27.02.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER