

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO118682

Power Supply Position in Northern Region for 24.04.2018  
Date of Reporting : 25.04.2018



I. Regional Availability/Demand:

Evening Peak (20:00 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
45253	1399	46652	49.99	41342	750	42092	50.00	980.34	14.69

\*Half hourly two 15 minutes block-one block 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)							UJ (OG:(+ve), UD:(-ve))				
	Thermal	Hydro	Gas/Naphtha/Diesel	Solar	Wind	Other (Biomass/Small hydro/Co-Generation etc.)	Total	Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages* (MU)
Punjab	72.08	2.66	0.00	3.24	0.00	2.90	80.87	44.29	43.95	-0.34	124.83	0.00
Haryana	57.73	0.37	4.47	0.18	0.00	1.26	64.00	59.49	63.06	3.57	127.07	3.75
Rajasthan	111.26	0.00	3.90	9.67	8.48	0.47	133.79	61.36	63.77	2.41	197.56	0.15
Delhi	3.39	0.00	14.25	0.00	0.00	0.00	17.64	74.39	72.00	-2.39	89.64	0.05
UP	190.91	5.45	0.00	4.28	0.00	20.40	221.04	108.75	111.43	4.88	332.48	0.78
Uttarakhand	0.00	7.57	6.87	0.74	0.00	0.00	15.18	22.44	23.21	0.77	38.38	0.00
HP	0.00	5.66	0.00	0.00	0.00	4.12	9.77	14.50	14.15	-0.35	23.92	0.00
J & K	0.00	12.35	0.00	0.00	0.00	0.00	12.35	30.57	29.90	-0.67	42.25	9.97
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.25	2.11	-2.14	4.22	0.00
<b>Total</b>	<b>435.37</b>	<b>34.05</b>	<b>29.49</b>	<b>18.11</b>	<b>8.48</b>	<b>29.14</b>	<b>554.65</b>	<b>418.04</b>	<b>425.70</b>	<b>7.66</b>	<b>980.34</b>	<b>14.69</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 (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				UJ/OA/PX/IOD/Import: (+ve), UJ/Export: (-ve)		
	Demand Met	Shortage	UI	STOAPX transaction	Demand Met	Shortage	UI	STOAPX transaction	Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
Punjab	5684	0	-106	-712	5103	0	-712	-130	5990	22	0
Haryana	6320	357	151	154	5905	275	193	227	6453	21	245
Rajasthan	8105	0	153	10	7988	0	192	54	9084	8	0
Delhi	3984	0	-167	-215	3475	0	15	-537	4373	16	0
UP	15859	510	383	127	14918	200	67	615	15859	20	510
Uttarakhand	1937	0	186	329	1433	0	-4	422	1937	20	0
HP	1116	23	-99	-558	831	0	24	-112	1311	8	0
J&K	2039	510	174	-135	1561	275	-43	122	2055	21	514
Chandigarh	210	0	-13	-35	127	0	-19	0	211	16	0
<b>Total</b>	<b>45253</b>	<b>1399</b>	<b>660</b>	<b>-1034</b>	<b>41342</b>	<b>750</b>	<b>555</b>	<b>79</b>	<b>45568</b>	<b>21</b>	<b>759</b>

† STOAX figures are at sales 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	1047	1163	1176	26.04	1085	25.12	0.92	
Rihand I STPS (2*500)	1000	461	514	513	11.25	469	11.01	0.24	
Rihand II STPS (2*500)	1000	943	1012	1008	22.89	954	22.45	0.44	
Rihand III STPS (2*500)	1000	943	1010	997	22.67	944	22.47	0.20	
Dadri I STPS (4*210)	840	576	598	402	10.36	432	10.71	-0.35	
Dadri II STPS (2*490)	980	929	963	906	20.16	840	19.86	0.30	
Unchahar I TPS (2*210)	420	382	413	397	8.01	334	8.37	-0.36	
Unchahar II TPS (2*210)	420	382	389	417	7.84	327	8.09	-0.25	
Unchahar III TPS (1*210)	210	0	0	0	0.05	2	0.00	0.05	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	948	956	984	20.30	846	20.84	-0.54	
Dadri GPS (4*130.19+2*154.51)	830	0	171	160	3.76	157	3.82	-0.06	
Anta GPS (3*88.71+1*153.2)	419	0	0	0	0.00	0	0.00	0.00	
Auraya GPS (4*111.19+2*109.30)	663	0	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	0.00	0	0.06	-0.06	
Singrauli Solar(15)	15	3	0	0	0.08	3	0.06	0.02	
KHEP(4*200)	800	792	867	0	2.85	119	2.60	0.25	
<b>Sub Total (A)</b>	<b>12612</b>	<b>7408</b>	<b>8056</b>	<b>6960</b>	<b>156</b>	<b>6512</b>	<b>155</b>	<b>0.81</b>	
<b>B. NPC</b>									
NAPS (2*220)	440	190	206	214	4.52	188	4.56	-0.04	
RAPS- B (2*220)	440	375	406	417	8.79	366	9.00	-0.21	
RAPS- C (2*220)	440	411	458	461	9.94	414	9.86	0.08	
<b>Sub Total (B)</b>	<b>1320</b>	<b>976</b>	<b>1070</b>	<b>1092</b>	<b>23.24</b>	<b>969</b>	<b>23.42</b>	<b>-0.18</b>	
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	534	544	0	5.20	217	5.00	0.20	
Chamera II HPS (3*100)	300	296	298	0	4.16	173	3.92	0.24	
Chamera III HPS (3*77)	231	228	232	0	2.71	113	2.53	0.18	
Bairasul HPS(3*60)	180	84	182	103	2.19	91	1.99	0.20	
Salat-HPS (6*115)	690	281	665	225	7.65	319	6.73	0.92	
Tanakpur-HPS (3*31.4)	94	19	32	20	0.57	24	0.46	0.11	
Ur-I HPS (4*120)	480	475	485	483	11.78	491	11.40	0.38	
Ur-II HPS (4*60)	240	238	244	243	5.79	241	5.70	0.09	
Dhauliganga-HPS (4*70)	280	277	287	0	1.32	55	1.25	0.07	
Dulhaasi-HPS (3*130)	390	385	400	261	7.26	303	7.00	0.26	
Sewa-II HPS (3*40)	120	119	125	0	1.06	44	1.00	0.06	
Parbati 3 (4*130)	520	31	260	0	0.79	33	0.74	0.05	
<b>Sub Total (C)</b>	<b>4065</b>	<b>2965</b>	<b>3751</b>	<b>1335</b>	<b>50</b>	<b>2104</b>	<b>48</b>	<b>2.76</b>	
<b>D.SJVNL</b>									
NJPC (6*250)	1500	1497	1526	0	9.65	402	9.40	0.25	
Rampur HEP (6*88.67)	412	412	407	0	2.72	113	2.62	0.10	
<b>Sub Total (D)</b>	<b>1912</b>	<b>1910</b>	<b>1933</b>	<b>0</b>	<b>12.37</b>	<b>515</b>	<b>12.02</b>	<b>0.35</b>	
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	456	459	301	4.62	192	4.60	0.02	
Koteshwar HPS (4*100)	400	94	104	92	2.30	96	2.25	0.05	
<b>Sub Total (E)</b>	<b>1400</b>	<b>550</b>	<b>563</b>	<b>393</b>	<b>6.92</b>	<b>288</b>	<b>6.85</b>	<b>0.07</b>	
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	390	709	305	9.50	396	9.36	0.14	
Dehar HPS (6*165)	990	242	495	165	5.99	250	5.80	0.19	
Pong HPS (6*66)	396	20	104	0	0.47	20	0.47	0.00	
<b>Sub Total (F)</b>	<b>2765</b>	<b>651</b>	<b>1308</b>	<b>470</b>	<b>15.96</b>	<b>665</b>	<b>15.63</b>	<b>0.33</b>	
<b>G. IPP(s)/JV(s)</b>									
Allain Duhangan HPS(IPP) (2*96)	192	0	104	16	1.42	59	1.27	0.15	
Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1000	0	5.08	212	5.15	-0.07	
Malana Stg-II HPS (2*50)	100	0	30	105	0.64	27	0.59	0.05	
Shree Cement TPS (2*150)	300	0	258	255	6.11	255	6.23	-0.12	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.00	0	0.41	-0.41	
Saini HPS (IPP) (2*50)	100	0	0	0	0.00	0	0.52	0.00	
<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>1391</b>	<b>376</b>	<b>13.25</b>	<b>552</b>	<b>13.65</b>	<b>-0.40</b>	
<b>H. Total Regional Entities (A-G)</b>	<b>25837</b>	<b>14460</b>	<b>18072</b>	<b>10627</b>	<b>278.52</b>	<b>11605</b>	<b>274.77</b>	<b>3.75</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	0	0	-0.09	-4
	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	-0.09	-4
	Goindwal(GVK) (2*270)	540	145	145	4.54	189
	Rajpura (2*700)	1400	1320	1320	31.63	1318
	Talwandi Saboo (3*660)	1980	1575	1535	36.11	1505
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3040</b>	<b>3000</b>	<b>72.08</b>	<b>3003</b>
	Total Hydro	1000	0	24	2.66	111
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	2.90	121
	Solar	859	0	0	3.24	135
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>6.13</b>	<b>256</b>
	<b>Total Punjab</b>	<b>8722</b>	<b>3040</b>	<b>3024</b>	<b>80.87</b>	<b>3370</b>
	Haryana	Panipat TPS (2*210+2*250)	920	361	830	15.89
DCRTPP (Yamuna nagra) (2*300)		600	293	291	6.20	258
Faridabad GPS (NTPC)(2*137.75+1*156)		432	192	191	4.47	186
RGTPP (kheadan) (IPP) (2*600)		1200	1139	1033	22.52	938
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	604	583	13.11	546
<b>Thermal (Total)</b>		<b>4497</b>	<b>2589</b>	<b>2928</b>	<b>62.20</b>	<b>2592</b>
Total Hydro		62	6	15	0.37	15
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	1.26	52
Solar		50	0	0	0.18	8
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>1.44</b>	<b>60</b>
<b>Total Haryana</b>		<b>4715</b>	<b>2595</b>	<b>2943</b>	<b>64.00</b>	<b>2667</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1074	1130	25.79
	suratgarh TPS (6*250)	1500	1186	1289	28.18	1174
	Chabra TPS (4*250)	1000	694	698	16.56	690
	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	160	157	3.90	162
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	112	112	2.60	108
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	962	947	23.27	969
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	633	613	14.87	620
	<b>Thermal (Total)</b>	<b>9536</b>	<b>4821</b>	<b>4946</b>	<b>115.16</b>	<b>4798</b>
	Total Hydro	550	0	0	0.00	0
	Wind power	4292	133	341	8.48	354
	Biomass	102	20	20	0.47	20
	Solar	1995	32	0	9.67	403
	Renewable/Others (Total)	6389	185	361	18.63	776
	<b>Total Rajasthan</b>	<b>16475</b>	<b>5006</b>	<b>5307</b>	<b>133.79</b>	<b>5575</b>
	UP	Anpara TPS (3*210+2*500)	1630	1156	1175	29.07
Obra TPS (2*50+2*94+5*200)		1194	509	498	11.48	478
Paricha TPS (2*110+2*220+2*250)		1160	814	812	15.47	644
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	450	443	8.55	356
Tanda TPS (NTPC) (4*110)		440	378	392	7.27	303
Roza TPS (IPP) (4*300)		1200	1074	946	20.15	840
Anpara-C (IPP) (2*600)		1200	1008	1082	24.39	1016
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.04	2
Anpara-D(2*500)		1000	913	910	21.79	908
Lalitpur TPS(3*660)		1980	1212	1849	31.59	1316
Bara(3*660)		1980	992	981	21.12	880
<b>Thermal (Total)</b>		<b>13109</b>	<b>8506</b>	<b>9088</b>	<b>190.91</b>	<b>7955</b>
Vishnuparyag HPS (IPP)(4*110)		440	108	98	2.63	110
Alakananda(4*82.5)		330	83	0	1.25	52
Other Hydro		527	190	18	1.58	66
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	4.28	178
<b>Renewable(Total)</b>		<b>128</b>	<b>0</b>	<b>0</b>	<b>4.28</b>	<b>178</b>
<b>Total UP</b>	<b>15515</b>	<b>9737</b>	<b>10054</b>	<b>221.04</b>	<b>9210</b>	
Uttarakhand	Other Hydro	1250	625	249	7.57	315
	Total Gas	450	289	297	6.87	286
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.74	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>0.74</b>	<b>31</b>
	<b>Total Uttarakhand</b>	<b>2107</b>	<b>914</b>	<b>546</b>	<b>15.18</b>	<b>632</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	70	111	2.17	91
	Pragati Gas Turbine (2x104+ 1x122)	330	264	261	6.38	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	239	233	5.70	237
	Badarpur TPS (NTPC) (3*95+2*210)	705	156	147	3.39	141
	<b>Thermal (Total)</b>	<b>2917</b>	<b>729</b>	<b>752</b>	<b>17.64</b>	<b>735</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>729</b>	<b>752</b>	<b>17.64</b>	<b>735</b>	

HP	Baspa HPS (IPP) (3*100)	300	70	110	1.80	75	
	Malana HPS (IPP) (2*43)	86	35	41	0.54	23	
	Other Hydro (>25MW)	372	135	142	3.32	138	
	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	200	166	4.12	172	
	Renewable(Total)	486	200	166	4.12	172	
	Total HP	1244	440	460	9.77	407	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	386	384	9.23	385
		Other Hydro/IPP(including 98 MW Small Hydro)	308	106	144	3.12	130
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	
Renewable(Total)		98	0	0	0.00	0	
Total J & K		1398	492	528	12	515	
Total State Control Area Generation		53111	22953	23614	554.65	23110	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4727	5795	161.23	6718		
Total Regional Availability(Gross)		78948	45752	40035	994.39	41433	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9556	2319	95.72	3989
State Control Area Hydro	7468	2233	1689	34.05	1907
Total Regional Hydro	19702	11789	4008	129.78	5896

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.10	4
State Control Area Renewable	8844	385	527	35.34	1472
Total Regional Renewable	8874	385	527	35.44	1477

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

Element	Peak(20:00 Hrs) MW	Diff Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-50	-150	0	150	0.00	2.87	-2.87
765 KV Gwalior-Agra (D/C)	1620	1665	1756	0	35.26	0.00	35.26
400 KV Zerda-Kankroli	-246	-228	0	374	0.00	6.77	-6.77
400 KV Zerda-Bhinmal	-179	-206	0	414	0.00	5.35	-5.35
220 KV Auraiya-Malanpur	-173	-157	0	188	0.00	3.22	-3.22
220 KV Badod-Kota/Morak	-95	-93	21	127	0.00	1.66	-1.66
Mundra-Mohindergarhi(HVDC Bipole)	302	301	304	252	4.42	0.71	3.71
400 KV RAPP-C-Sujalpur	214	117	283	72	3.77	0.00	3.77
400 KV Vindhychal-Rihand	-962	-946	0	969	0.00	22.88	-22.88
765 KV Phagt-Gwalior (D/C)	1465	1777	1841	0	39.02	0.00	39.02
+/- 800 KV HVDC Champa-Kurushetra	1500	1000	1500	0	30.51	0	30.51
765KV Orai-Jabalpur	0	0	0	0	14.98	0	14.98
765KV Orai-Satna	0	0	0	0	39.76	0	39.76
765KV Orai-Gwalior	0	0	0	0	0.00	11	-10.81
<b>Sub Total WR</b>	<b>3396</b>	<b>3080</b>			<b>167.73</b>	<b>54.26</b>	<b>113.46</b>
400 kV Sasaram - Varanasi	-80	-31	0	86	0.00	1.05	-1.05
400 kV Sasaram - Allahabad	-117	-42	0	128	0.00	1.50	-1.50
400 KV MZP- GKP (D/C)	-50	298	326	97	2.67	0.00	2.67
400 KV Patna-Balia(D/C) X 2	191	548	803	0	11.77	0.00	11.77
400 KV B Sharif-Balia (D/C)	37	263	294	0	4.13	0.00	4.13
765 KV Gaya-Balia	220	473	537	0	9.74	0.00	9.74
765 KV Gaya-Varanasi (D/C)	120	217	230	0	2.41	0.00	2.41
220 KV Pusaui-Sahupuri	184	164	184	0	3.69	0.00	3.69
132 KV Knasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	20	25	0	25	0.00	0.47	-0.47
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-104	-41	104	111	0.00	0.53	-0.53
400 KV Mothari -GKP (D/C)	147	246	255	0	4.07	0.00	4.07
400 kV B Sharif - Varanasi (D/C)	63	-105	185	95	0.89	0.00	0.89
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>631</b>	<b>2015</b>			<b>40.32</b>	<b>3.54</b>	<b>36.78</b>
+/- 800 KV HVDC Biswanath Chariali-Agra	700	700	700	0.00	10.98	0.00	10.98
<b>Sub Total NER</b>	<b>700</b>	<b>700</b>			<b>10.98</b>	<b>0.00</b>	<b>10.98</b>
<b>Total IR Exch</b>	<b>4727</b>	<b>5795</b>			<b>219.03</b>	<b>57.81</b>	<b>161.23</b>

2.65

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
57.56	0.44	58.00	-7.20	-6.36	-1.34	-3.65	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
49.02	111.69	160.71	47.76	113.46	161.23	-1.26	1.77	0.52

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

Element	Peak(20:00 Hrs) MW	Diff Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	26	29	0	30	0	1	-0.66

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	1.97	9.42	69.76	86.15	3.88	0.84	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	13.03	49.77	22.08	49.97	0.035	0.052	50.08	49.86	13.85

## 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	>430 kV	
Rihand	400	404	13:03	400	0:04	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	6:52	392	18:39	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	6:48	398	19:26	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	13:03	400	19:16	0.0	0.0	0.0	0.0	0.0
Dadri	400	422	6:47	405	19:14	0.0	0.0	1.8	0.0	1.8
Ballabgarh	400	420	6:55	400	19:16	0.0	0.0	0.0	0.0	0.0
Bawana	400	421	6:47	401	19:15	0.0	0.0	0.8	0.0	0.8
Bassi	400	418	13:01	398	23:30	0.0	0.0	0.0	0.0	0.0
Hissar	400	419	13:02	399	19:14	0.0	0.0	0.0	0.0	0.0
Moga	400	422	13:02	402	19:25	0.0	0.0	1.1	0.0	1.1
Abdullapur	400	426	13:02	406	19:14	0.0	0.0	15.8	0.0	15.8
Nalagarh	400	428	13:02	408	19:16	0.0	0.0	25.4	0.0	25.4
Kishenpur	400	419	4:01	406	20:07	0.0	0.0	0.0	0.0	0.0
Wagoora	400	404	3:50	388	20:06	0.0	4.9	0.0	0.0	0.0
Amritsar	400	427	13:03	407	19:22	0.0	0.0	6.7	0.0	6.7
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	423	13:02	405	19:30	0.0	0.0	2.7	0.0	2.7
Rishikesh	400	416	6:46	393	19:15	0.0	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	784	13:02	741	19:27	0.0	0.3	0.0	0.0	0.0
Balia	765	786	7:07	751	19:28	0.0	0.0	0.0	0.0	0.0
Moga	765	804	13:02	770	19:13	0.0	0.0	1.8	0.0	1.8
Agra	765	792	13:03	751	19:26	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	804	13:04	772	9:35	0.0	0.0	0.3	0.0	0.3
Unnao	765	774	7:05	740	19:28	0.0	0.8	0.0	0.0	0.0
Lucknow	765	794	6:49	757	19:27	0.0	0.0	0.0	0.0	0.0
Meerut	765	808	6:47	766	9:13	0.0	0.0	8.8	0.0	8.8
Jhatikara	765	798	6:47	758	19:23	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	806	6:48	767	19:27	0.0	0.0	7.1	0.0	7.1
Anta	765	799	13:01	769	9:24	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	13:02	770	9:25	0.0	0.0	1.1	0.0	1.1

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	469.22	252.64	469.33	257.12	196.46	325.93
Pong	426.72	384.05	394.31	116.59	396.75	157.28	37.77	37.77
Tehri	829.79	740.04	753.00	70.05	755.65	88.62	42.74	153.00
Koteswar	612.50	598.50	610.34	4.75	610.52	4.80	153.00	151.89
Chamera-I	760.00	748.75	756.83	0.00	0.00	0.00	149.13	141.21
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	497.26	0.66	515.61	3.90	103.70	20.53

\* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-409	-303	0	-207	-505	0	-5.98	-16.86	-22.84
Delhi	-199	-338	0	-33	-182	0	-0.05	-4.26	-4.31
Haryana	226	1	0	147	6	0	-1.05	-2.58	-3.63
HP	-173	61	0	-212	-346	0	-2.08	0.78	-1.30
J&K	-254	375	0	-254	119	0	-6.09	8.68	2.59
CHD	0	0	0	0	-35	0	0.00	0.09	0.09
Rajasthan	-8	62	0	-8	18	0	-0.20	2.89	2.69
UP	615	0	0	127	0	0	5.06	0.00	5.06
Uttarakhand	12	409	0	18	311	0	0.68	9.75	10.43
Total	-189	267	0	-420	-614	0	-9.71	-1.51	-11.22

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	409	207	1616	303	0	0
Delhi	199	0	576	11	0	0
Haryana	289	147	732	0	0	0
HP	213	28	399	9	0	0
J&K	254	254	474	10	0	0
CHD	0	0	49	0	0	0
Rajasthan	8	8	1018	18	0	0
UP	629	54	0	0	0	0
Uttarakhand	77	8	620	7	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	9
Haryana	3	18
Rajasthan	2	19
Delhi	7	49
UP	2	14
Uttarakhand	2	24
HP	4	28
J & K	2	17
Chandigarh	5	18

**XIII. System Constraints:****XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 24.04.2018 :****XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**

1. First time Ajmer Phagi II taken on load at 16.04 Hrs /24.04.2018

**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 : 24.04.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER