

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO118682  
Power Supply Position in Northern Region for 26.04.2018  
Date of Reporting : 27.04.2018



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
45561	1000	46562	50.04	45080	401	45481	49.95	1043.29	12.41

\*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)							UI (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	72.15	2.94	0.00	3.24	0.00	2.90	81.23	55.93	55.42	-0.51	136.65	0.00
Haryana	59.50	0.41	7.66	0.15	0.00	0.90	68.62	65.94	68.88	2.94	137.50	0.20
Rajasthan	105.27	0.00	3.70	11.93	18.14	0.78	139.81	62.64	70.27	7.63	210.08	1.51
Delhi	3.51	0.00	19.10	0.00	0.00	0.00	22.62	77.17	76.60	-0.57	99.22	0.12
UP	194.09	6.02	0.00	3.35	0.00	20.40	223.86	118.07	123.71	5.64	347.57	0.00
Uttarakhand	0.00	9.05	6.16	0.63	0.00	0.00	15.84	22.46	22.31	-0.15	38.15	0.00
HP	0.00	7.04	0.00	0.00	0.00	4.36	11.40	12.69	13.87	1.18	25.27	0.15
J & K	0.00	12.33	0.00	0.00	0.00	0.00	12.33	30.67	31.86	1.19	44.19	10.42
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.64	4.67	0.03	4.67	0.00
<b>Total</b>	<b>434.53</b>	<b>37.79</b>	<b>36.62</b>	<b>19.30</b>	<b>18.14</b>	<b>29.33</b>	<b>575.70</b>	<b>450.21</b>	<b>467.59</b>	<b>17.38</b>	<b>1043.29</b>	<b>12.41</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				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOAPX transaction	Demand Met	Shortage	UI	STOAPX transaction			
Punjab	5834	0	75	-308	5823	0	87	-409	6421	22	0
Haryana	6890	0	-27	154	6700	112	278	443	6890	20	0
Rajasthan	8286	0	335	-28	8447	0	416	-780	9563	8	0
Delhi	4300	0	-100	-65	3908	0	96	-381	4857	16	0
UP	15120	520	-124	115	15976	0	133	513	16539	1	0
Uttarakhand	1817	0	85	185	1521	0	94	456	1869	19	0
HP	1176	0	4	-877	916	0	-10	-266	1307	8	23
J&K	1922	480	52	-106	1643	290	-18	43	2188	22	547
Chandigarh	216	0	-8	-30	146	0	-5	0	237	16	0
<b>Total</b>	<b>45561</b>	<b>1000</b>	<b>292</b>	<b>-959</b>	<b>45080</b>	<b>401</b>	<b>1071</b>	<b>-381</b>	<b>47412</b>	<b>24</b>	<b>1388</b>

\*STOAX figures are at sellers boundary & PX figures are at regional boundary.

# figures may not be at simultaneous hour.

Diversity is 1.05

UI (OG:(+ve), UD:(-ve))

III. Regional Entities :

Entity	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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1188	1298	1321	29.25	1219	28.50	0.75
	Rihand I STPS (2*500)	1000	528	807	503	12.89	537	12.63	0.26
	Rihand II STPS (2*500)	1000	943	980	1020	22.88	953	22.49	0.39
	Rihand III STPS (2*500)	1000	943	993	1016	22.63	943	22.54	0.09
	Dadri I STPS (4*210)	840	576	582	573	11.42	476	11.81	-0.39
	Dadri II STPS (2*490)	980	929	992	937	21.82	909	21.51	0.31
	Unchahar I TPS (2*210)	420	382	382	359	8.25	344	8.98	-0.73
	Unchahar II TPS (2*210)	420	382	379	382	8.23	343	8.79	-0.56
	Unchahar III TPS (1*210)	210	0	0	0	0.00	0	0.00	0.00
	Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar) (3*500)	1500	948	992	927	19.67	820	20.13	-0.46
	Dadri GPS (4*130.19+2*154.51)	830	0	162	185	3.67	153	3.93	-0.26
	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	0.05	2	0.05	0.00
	Singrauli Solar(15)	15	3	0	0	0.08	3	0.05	0.03
	KHEP(4*200)	800	792	866	242	5.02	209	4.87	0.15
	<b>Sub Total (A)</b>	<b>12612</b>	<b>7616</b>	<b>8433</b>	<b>7465</b>	<b>166</b>	<b>6911</b>	<b>166</b>	<b>-0.43</b>
	B. NPC	NAPS (2*220)	440	188	207	411	4.49	187	4.51
RAPS- B (2*220)		440	366	406	407	8.69	362	8.78	-0.09
RAPS- C (2*220)		440	414	459	460	9.77	407	9.94	-0.17
<b>Sub Total (B)</b>		<b>1320</b>	<b>968</b>	<b>1072</b>	<b>1278</b>	<b>22.95</b>	<b>956</b>	<b>23.23</b>	<b>-0.28</b>
C. NHPC		Chamera I HPS (3*180)	540	534	542	19	6.76	282	6.51
Chamera II HPS (3*100)	300	294	302	100	5.96	248	5.88	0.08	
Chamera III HPS (3*77)	231	228	223	157	4.06	169	3.96	0.10	
Bairasul HPS(3*60)	180	84	180	102	2.09	87	1.98	0.11	
Salat-HPS (6*115)	690	368	340	335	9.73	405	8.84	0.89	
Tanakpur-HPS (3*31.4)	94	21	33	22	0.59	25	0.51	0.08	
Uri-I HPS (4*120)	480	475	485	482	11.76	490	11.40	0.36	
Uri-II HPS (4*60)	240	238	242	244	5.81	242	5.71	0.10	
Dhauliganga-HPS (4*70)	280	277	272	0	1.66	69	1.61	0.05	
Dulhaasi-HPS (3*130)	390	385	396	274	9.19	383	9.10	0.09	
Sewa-II HPS (3*40)	120	119	108	0	0.97	40	1.00	-0.03	
Parbati 3 (4*130)	520	42	387	0	1.06	44	1.02	0.04	
<b>Sub Total (C)</b>	<b>4065</b>	<b>3066</b>	<b>3508</b>	<b>1736</b>	<b>60</b>	<b>2485</b>	<b>58</b>	<b>2.12</b>	
D.SJVNL	NJPC (6*250)	1500	1497	1583	0	12.42	518	11.90	0.52
	Rampur HEP (6*88.67)	412	412	422	0	3.52	147	3.31	0.21
	<b>Sub Total (D)</b>	<b>1912</b>	<b>1910</b>	<b>2005</b>	<b>0</b>	<b>15.95</b>	<b>664</b>	<b>15.21</b>	<b>0.74</b>
E. THDC	Tehri HPS (4*250)	1000	450	428	0	3.46	144	3.45	0.01
	Koteshwar HPS (4*100)	400	70	70	72	1.68	70	1.68	0.00
	<b>Sub Total (E)</b>	<b>1400</b>	<b>520</b>	<b>498</b>	<b>72</b>	<b>5.14</b>	<b>214</b>	<b>5.13</b>	<b>0.01</b>
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	449	712	477	10.82	451	10.78	0.04
	Dehar HPS (6*165)	990	338	660	330	8.38	349	8.12	0.26
	Pong HPS (6*66)	396	22	104	0	0.53	22	0.52	0.01
	<b>Sub Total (F)</b>	<b>2765</b>	<b>809</b>	<b>1476</b>	<b>807</b>	<b>19.73</b>	<b>822</b>	<b>19.42</b>	<b>0.31</b>
G. IPP(s)/JV(s)	Allain Duhangan HPS(IPP) (2*96)	192	0	115	61	1.88	78	2.15	-0.27
	Karcham Wangtoo HPS(IPP) (4*250)	1000	0	1000	0	6.50	271	6.21	0.29
	Malana Stg-II HPS (2*50)	100	0	30	105	0.58	24	0.54	0.04
	Shree Cement TPS (2*150)	300	0	257	255	6.13	255	6.25	-0.12
	Budhil HPS(IPP) (2*35)	70	0	69	35	0.89	37	1.10	-0.21
	Saini HPS (IPP) (2*50)	100	0	0	0	0.00	0	0.67	0.00
	<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>1471</b>	<b>456</b>	<b>15.98</b>	<b>666</b>	<b>16.25</b>	<b>-0.27</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25837</b>	<b>14889</b>	<b>18463</b>	<b>11814</b>	<b>305.26</b>	<b>12719</b>	<b>303.06</b>	<b>2.20</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	-0.10	-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	-0.13	-5	
	Goindwal(GVK) (2*270)	540	145	200	4.49	187	
	Rajpura (2*700)	1400	970	1320	29.69	1237	
	Talwandi Saboo (3*660)	1980	1474	1700	38.22	1592	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>2589</b>	<b>3220</b>	<b>72.15</b>	<b>3006</b>	
	Total Hydro	1000	25	25	2.94	123	
	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>2614</b>	<b>3245</b>	<b>81.23</b>	<b>3384</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	780	838	18.49	770
		DCRTPP (Yamuna nagar) (2*300)	600	290	287	6.09	254
Faridabad GPS (NTPC)(2*137.75+1*156)		432	357	375	7.66	319	
RGTPP (kherda) (IPP) (2*600)		1200	1135	1141	22.61	942	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	582	589	12.31	513	
<b>Thermal (Total)</b>		<b>4497</b>	<b>3144</b>	<b>3230</b>	<b>67.16</b>	<b>2798</b>	
Total Hydro		62	5	17	0.41	17	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.90	37	
Solar		50	0	0	0.15	6	
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>1.04</b>	<b>43</b>	
<b>Total Haryana</b>		<b>4715</b>	<b>3149</b>	<b>3247</b>	<b>68.62</b>	<b>2859</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	920	910	23.78	991
		suratgarh TPS (6*250)	1500	1255	1023	29.15	1215
	Chabra TPS (4*250)	1000	480	668	11.85	494	
	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	153	161	3.70	154	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	111	112	2.57	107	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	958	701	23.42	976	
	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	608	559	14.50	604	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>4485</b>	<b>4134</b>	<b>108.97</b>	<b>4540</b>	
	Total Hydro	550	0	0	0.00	0	
	Wind power	4292	161	1725	18.14	756	
	Biomass	102	32	32	0.78	32	
	Solar	1995	28	0	11.93	497	
	Renewable/Others (Total)	6389	221	1757	30.85	1285	
	<b>Total Rajasthan</b>	<b>16475</b>	<b>4706</b>	<b>5691</b>	<b>139.81</b>	<b>5826</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1319	1307	33.37	1390
		Obra TPS (2*50+2*94+5*200)	1194	311	471	10.94	456
		Panicha TPS (2*110+2*220+2*250)	1160	897	895	17.98	749
		Panki TPS (2*105)	210	0	0	0.00	0
		Harduaganj TPS (1*60+1*105+2*250)	665	542	545	10.95	456
Tanda TPS (NTPC) (4*110)		440	388	396	7.82	326	
Roza TPS (IPP) (4*300)		1200	1001	1065	21.81	909	
Anpara-C (IPP) (2*600)		1200	1068	1096	25.35	1056	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	401	399	7.64	318	
Anpara-D(2*500)		1000	910	920	21.77	907	
Lalitpur TPS(3*660)		1980	1216	1233	25.79	1074	
Bara(3*660)		1980	0	1000	10.68	445	
<b>Thermal (Total)</b>		<b>13109</b>	<b>8053</b>	<b>9327</b>	<b>194.09</b>	<b>8087</b>	
Vishnupurayag HPS (IPP)(4*110)		440	158	155	3.45	144	
Alakananda(4*82.5)		330	77	0	1.54	64	
Other Hydro		527	141	9	1.03	43	
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	3.35	140	
<b>Renewable(Total)</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>3.35</b>	<b>140</b>		
<b>Total UP</b>	<b>15515</b>	<b>9279</b>	<b>10341</b>	<b>223.86</b>	<b>9327</b>		
Uttarakhand	Other Hydro	1250	497	244	9.05	377	
	Total Gas	450	276	289	6.16	257	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.63	26	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.63</b>	<b>26</b>	
	<b>Total Uttarakhand</b>	<b>2107</b>	<b>773</b>	<b>533</b>	<b>15.84</b>	<b>660</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	69	69	1.68	70	
	Pragati Gas Turbine (2x104+ 1x122)	330	264	263	6.43	268	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	451	448	10.99	458	
	Badarpur TPS (NTPC) (3*95+2*210)	705	151	145	3.51	146	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>936</b>	<b>926</b>	<b>22.62</b>	<b>942</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>936</b>	<b>926</b>	<b>22.62</b>	<b>942</b>		

HP	Baspa HPS (IPP) (3*100)	300	72	190	2.10	88	
	Malana HPS (IPP) (2*43)	86	47	47	0.69	29	
	Other Hydro (>25MW)	372	168	192	4.25	177	
	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	203	183	4.36	182	
	Renewable(Total)	486	203	183	4.36	182	
	Total HP	1244	489	612	11.40	475	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	384	384	9.22	384
		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	490	528	12	514	
Total State Control Area Generation		53111	22436	25323	575.70	23988	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5308	6229	176.79	7366		
Total Regional Availability(Gross)		78948	46207	43366	1057.74	44073	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9498	3023	115.33	4768
State Control Area Hydro	7468	2158	1879	37.79	2039
Total Regional Hydro	19702	11656	4902	153.12	6807

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.14	6
State Control Area Renewable	8844	424	1940	46.36	1932
Total Regional Renewable	8874	424	1940	46.51	1938

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

Element	Peak(20:00 Hrs)	Diff Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	250	200	250	0	5.22	0.00	5.22
765 KV Gwalior-Agra (D/C)	1022	1754	1754	0	33.30	0.00	33.30
400 KV Zerda-Kankroli	-308	-314	0	420	0.00	8.21	-8.21
400 KV Zerda-Bhinmal	-228	-333	0	440	0.00	6.95	-6.95
220 KV Auraiya-Malanpur	-174	-160	0	184	0.00	2.99	-2.99
220 KV Badod-Kota/Morak	-81	-6	14	102	0.00	0.77	-0.77
Mundra-Mohindergarhi(HVDC Bipole)	748	302	754	0	10.63	0.00	10.63
400 KV RAPPK-Sujalpur	122	74	168	0	2.22	0.00	2.22
400 KV Vindhychal-Rihand	-944	-966	0	978	0.00	22.91	-22.91
765 KV Phagt-Gwalior (D/C)	1162	1507	1609	0	33.80	0.00	33.80
+/- 800 KV HVDC Champa-Kurushetra	2000	1500	2000	0	30.59	0	30.59
765KV Orai-Jabalpur	0	0	0	0	13.06	0	13.06
765KV Orai-Satna	0	0	0	0	40.36	0	40.36
765KV Orai-Gwalior	0	0	0	0	0.00	9	-8.73
<b>Sub Total WR</b>	<b>3569</b>	<b>3558</b>			<b>169.18</b>	<b>50.55</b>	<b>118.63</b>
400 kV Sasaram - Varanasi	-70	-54	0	81	0.00	1.46	-1.46
400 kV Sasaram - Allahabad	-80	-73	0	100	0.00	1.60	-1.60
400 KV MZP- GKP (D/C)	36	210	240	48	3.17	0.00	3.17
400 KV Patna-Balia(D/C) X 2	347	658	697	0	11.85	0.00	11.85
400 KV B'Sharif-Balia (D/C)	61	245	260	0	4.21	0.00	4.21
765 KV Gaya-Balia	144	391	460	0	8.43	0.00	8.43
765 KV Gaya-Varanasi (D/C)	280	254	454	0	7.27	0.00	7.27
220 KV Pusaali-Sahupuri	162	159	178	0	3.81	0.00	3.81
132 KV Knasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-23	-22	0	-23	0.00	-0.45	0.45
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-8	-36	72	49	0.18	0.00	0.18
400 KV Mothari -GKP (D/C)	165	189	215	0	3.76	0.00	3.76
400 kV B'Sharif - Varanasi (D/C)	25	50	123	41	0.99	0.00	0.99
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>1039</b>	<b>1971</b>			<b>44.62</b>	<b>2.61</b>	<b>42.01</b>
+/- 800 KV HVDC Biswanath-Charialli-Agra	700	700	700	0.00	16.14	0.00	16.14
<b>Sub Total NER</b>	<b>700</b>	<b>700</b>			<b>16.14</b>	<b>0.00</b>	<b>16.14</b>
<b>Total IR Exch</b>	<b>5308</b>	<b>6229</b>			<b>229.94</b>	<b>53.15</b>	<b>176.79</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
55.37	0.40	55.77	-7.31	-8.21	0.18	-2.39	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
48.24	116.34	164.58	58.15	118.63	176.79	9.91	2.29	12.21

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

Element	Peak(20:00 Hrs)	Diff Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	27	28	0	31	0	-1	0.65

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	0.07	9.14	68.30	83.59	6.81	0.49	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)	
50.12	10.02	49.80	14.51	49.97	0.036	0.054	50.06	49.85	16.41

## 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	403	5:05	399	15:23	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	8:50	396	0:17	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	417	8:59	401	0:23	0.0	0.0	0.0	0.0	0.0
Kanpur	400	415	8:03	402	0:30	0.0	0.0	0.0	0.0	0.0
Dadri	400	414	13:01	404	22:30	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	416	5:04	401	22:30	0.0	0.0	0.0	0.0	0.0
Bawana	400	418	8:00	401	22:36	0.0	0.0	0.0	0.0	0.0
Bassi	400	415	5:04	394	22:32	0.0	0.0	0.0	0.0	0.0
Hissar	400	416	13:31	399	22:39	0.0	0.0	0.0	0.0	0.0
Moga	400	416	13:01	402	22:32	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	421	5:10	405	19:31	0.0	0.0	1.5	0.0	1.5
Nalagarh	400	423	5:02	409	19:29	0.0	0.0	9.9	0.0	9.9
Kishenpur	400	416	3:19	406	22:13	0.0	0.0	0.0	0.0	0.0
Wagoora	400	405	3:45	391	20:17	0.0	0.0	0.0	0.0	0.0
Amritsar	400	422	13:21	407	22:09	0.0	0.0	1.9	0.0	1.9
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	13:21	406	20:07	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	412	7:56	394	18:10	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	764	8:50	736	0:31	0.0	4.9	0.0	0.0	0.0
Balia	765	780	8:51	751	0:23	0.0	0.0	0.0	0.0	0.0
Moga	765	796	13:31	769	22:33	0.0	0.0	0.0	0.0	0.0
Agra	765	786	6:02	759	22:37	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	796	5:01	774	22:14	0.0	0.0	0.0	0.0	0.0
Unnao	765	770	8:49	741	0:32	0.0	0.3	0.0	0.0	0.0
Lucknow	765	791	8:51	757	0:32	0.0	0.0	0.0	0.0	0.0
Meerut	765	803	8:01	771	22:35	0.0	0.0	1.0	0.0	1.0
Jhatikara	765	794	5:21	765	20:14	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	802	8:51	770	0:31	0.0	0.0	1.1	0.0	1.1
Anta	765	798	12:01	766	22:41	0.0	0.0	0.0	0.0	0.0
Phagi	765	795	5:03	764	22:40	0.0	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	468.91	248.16	470.29	272.43	287.25	369.99
Pong	426.72	384.05	394.31	116.59	396.66	151.67	42.56	42.56
Tehri	829.79	740.04	752.20	64.59	754.70	81.90	53.30	115.00
Koteswar	612.50	598.50	610.31	4.69	610.91	4.95	115.00	111.59
Chamera-I	760.00	748.75	756.98	0.00	0.00	0.00	185.53	185.53
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	497.77	0.77	516.07	4.00	149.03	37.41

\* 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	0	0	-207	-101	0	-5.98	-8.53	-14.51
Delhi	-115	-266	0	21	-86	0	0.55	-2.25	-1.70
Haryana	147	296	0	147	6	0	-1.66	0.69	-0.97
HP	-180	-86	0	-220	-657	0	-3.58	-3.84	-7.42
J&K	-254	296	0	-254	148	0	-6.09	8.04	1.95
CHD	0	0	0	0	-30	0	0.00	0.16	0.16
Rajasthan	-8	-772	0	-8	-20	0	-0.20	0.00	-0.20
UP	513	0	0	115	0	0	4.41	0.00	4.41
Uttarakhand	44	412	0	79	106	0	1.32	8.65	9.97
Total	-261	-120	0	-326	-633	0	-11.23	2.92	-8.31

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	409	207	1313	0	0	0
Delhi	191	15	653	0	0	0
Haryana	289	147	307	0	0	0
HP	220	85	689	2	0	0
J&K	254	254	474	10	0	0
CHD	0	0	59	0	0	0
Rajasthan	8	8	772	0	0	0
UP	513	46	0	0	0	0
Uttarakhand	79	39	644	51	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	4	21
Rajasthan	6	62
Delhi	2	23
UP	0	9
Uttarakhand	3	31
HP	3	28
J & K	4	33
Chandigarh	6	69

**XIII. System Constraints:**

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 26.04.2018 :

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 : 26.04.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER