

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 25.05.2018

Date of Reporting : 26.05.2018



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
52247	1131	53378	49.90	51283	295	51578	50.04	1228.30	13.51

\* 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)							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	92.59	11.77	0.00	4.16	0.00	2.66	111.17	76.25	75.35	-0.90	186.52	0.00
Haryana	79.32	0.45	0.00	0.17	0.00	0.72	80.66	88.20	89.65	1.45	170.31	1.96
Rajasthan	117.84	0.00	4.69	12.14	12.01	4.57	151.25	78.57	83.45	4.88	234.70	1.87
Delhi	6.52	0.00	20.17	0.00	0.00	0.00	26.70	94.99	93.05	-1.94	119.74	0.00
UP	192.66	11.99	0.00	0.00	0.00	12.00	216.66	176.37	184.23	7.86	400.89	0.00
Uttarakhand	0.00	15.65	5.54	0.79	0.00	0.00	21.98	21.27	22.69	1.42	44.67	0.48
HP	0.00	12.96	0.00	0.00	0.00	4.18	17.15	7.37	9.31	1.94	26.46	0.03
J & K	0.00	18.94	0.00	0.00	0.00	0.00	18.94	27.36	20.02	-7.34	38.96	9.17
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.83	6.05	0.22	6.05	0.00
<b>Total</b>	<b>488.95</b>	<b>71.76</b>	<b>30.41</b>	<b>17.25</b>	<b>12.01</b>	<b>24.13</b>	<b>644.50</b>	<b>576.21</b>	<b>583.80</b>	<b>7.59</b>	<b>1228.30</b>	<b>13.51</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	6921	0	-46	-80	7203	0	54	21	8640	14	0
Haryana	7760	0	46	218	7168	0	125	406	7776	22	0
Rajasthan	8732	153	29	-53	9712	0	242	-49	10737	8	0
Delhi	4921	0	-93	502	5224	0	77	695	5912	17	0
UP	18690	530	434	1485	17232	0	381	2245	18690	20	530
Uttarakhand	1999	0	-12	274	1866	0	163	507	2068	21	0
HP	1176	0	-50	-1153	992	0	59	-712	1377	11	0
J&K	1793	448	-299	-19	1669	295	-232	130	1936	16	484
Chandigarh	255	0	-36	0	217	0	16	0	317	16	0
<b>Total</b>	<b>52247</b>	<b>1131</b>	<b>-29</b>	<b>1175</b>	<b>51283</b>	<b>295</b>	<b>884</b>	<b>3243</b>	<b>53480</b>	<b>24</b>	<b>445</b>

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

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	Net MU
A. NTPC	Singrauli STPS (6*200+2*500)	2000	1647	1805	1801	40.08	1670	39.52	0.56	
	Rihand I STPS (2*500)	1000	905	983	935	21.83	909	21.70	0.13	
	Rihand II STPS (2*500)	1000	471	511	496	11.43	476	11.31	0.12	
	Rihand III STPS (2*500)	1000	943	1008	1006	22.72	947	22.59	0.13	
	Dadri I STPS (4*210)	840	502	554	464	11.23	468	11.48	-0.25	
	Dadri II STPS (2*490)	980	515	467	612	12.33	514	12.13	0.20	
	Unchahar I TPS (2*210)	420	382	404	363	8.47	353	8.88	-0.41	
	Unchahar II TPS (2*210)	420	382	413	389	8.51	355	8.79	-0.28	
	Unchahar III TPS (1*210)	210	191	204	193	4.25	177	4.42	-0.17	
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00	
	ISTPP (Jhajjar) (3*500)	1500	818	935	749	18.82	784	19.18	-0.36	
	Dadri GPS (4*130.19+2*154.51)	830	0	147	165	3.54	147	3.90	-0.36	
	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	2	0	0	0.07	3	0.05	0.02	
	KHEP(4*200)	800	872	865	198	6.94	289	6.60	0.34	
	<b>Sub Total (A)</b>	<b>12612</b>	<b>7634</b>	<b>8296</b>	<b>7371</b>	<b>170</b>	<b>7095</b>	<b>171</b>	<b>-0.34</b>	
	B. NPC	NAPS (2*220)	440	210	197	209	4.49	187	5.04	-0.55
RAPS- B (2*220)		440	355	399	401	8.58	358	8.52	0.06	
RAPS- C (2*220)		440	0	454	455	9.78	408	9.78	0.00	
<b>Sub Total (B)</b>		<b>1320</b>	<b>565</b>	<b>1050</b>	<b>1065</b>	<b>22.86</b>	<b>952</b>	<b>23.34</b>	<b>-0.48</b>	
C. NHPC	Chamera I HPS (3*180)	540	534	547	357	7.37	307	7.18	0.19	
	Chamera II HPS (3*100)	300	296	299	302	7.15	298	7.11	0.04	
	Chamera III HPS (3*77)	231	228	233	236	5.00	208	4.85	0.15	
	Bairasul HPS(3*60)	180	62	120	53	1.67	70	1.49	0.18	
	Salaj HPS(6*115)	690	482	445	500	12.36	515	11.56	0.80	
	Tanakpur-HPS (3*31.4)	94	42	51	39	1.17	49	1.00	0.17	
	Uri-I HPS (4*120)	480	475	483	483	11.71	488	11.40	0.31	
	Uri-II HPS (4*60)	240	238	244	244	5.81	242	5.70	0.11	
	Dhauliganga-HPS (4*70)	280	210	285	140	3.42	142	3.34	0.08	
	Dulhasti-HPS (3*130)	390	387	409	403	9.49	395	9.28	0.21	
	Sewa-II HPS (3*40)	120	119	127	0	0.60	25	0.60	0.00	
	Parbati 3 (4*130)	520	80	520	0	1.97	82	1.91	0.06	
	Kishanganga(3*110)	330	0	0	0	0.00	0	2.56	-2.56	
	<b>Sub Total (C)</b>	<b>4395</b>	<b>3151</b>	<b>3764</b>	<b>2756</b>	<b>68</b>	<b>2822</b>	<b>68</b>	<b>-0.26</b>	
	D.SJVNL	NJPC (6*250)	1500	1497	1523	508	20.51	854	20.10	0.41
Rampur HEP (6*68.67)		412	412	419	210	5.85	244	5.58	0.27	
<b>Sub Total (D)</b>		<b>1912</b>	<b>1910</b>	<b>1942</b>	<b>718</b>	<b>26.36</b>	<b>1098</b>	<b>25.68</b>	<b>0.68</b>	
E. THDC	Tehri HPS (4*250)	1000	526	532	0	4.29	179	4.21	0.08	
	Koteswar HPS (4*100)	400	88	202	71	2.14	89	2.10	0.04	
	<b>Sub Total (E)</b>	<b>1400</b>	<b>614</b>	<b>734</b>	<b>71</b>	<b>6.42</b>	<b>268</b>	<b>6.31</b>	<b>0.11</b>	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	593	931	441	14.30	596	14.24	0.06	
	Dehar HPS (6*165)	990	472	825	330	11.49	479	11.33	0.16	
	Pong HPS (6*68)	386	71	100	50	1.77	74	1.70	0.07	
	<b>Sub Total (F)</b>	<b>2765</b>	<b>1137</b>	<b>1856</b>	<b>821</b>	<b>27.56</b>	<b>1148</b>	<b>27.27</b>	<b>0.29</b>	
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	69	49	2.38	99	2.45	-0.07	
	Karcharm Wangtoo HPS(IPP) (4*250)	1000	0	1000	430	10.66	444	10.73	-0.07	
	Malana Sta-II HPS (2*50)	100	0	80	85	1.06	44	0.94	0.12	
	Shree Cement TPS (2*150)	300	0	257	257	6.12	255	6.57	-0.45	
	Budhil HPS(IPP) (2*35)	70	0	35	72	1.09	45	1.02	0.06	
	Sani HPS (IPP) (2*50)	100	0	0	0	0.00	0	1.18		
	<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>1442</b>	<b>892</b>	<b>21.31</b>	<b>888</b>	<b>21.71</b>	<b>-0.40</b>	
<b>H. Total Regional Entities (A-G)</b>	<b>26167</b>	<b>15010</b>	<b>19084</b>	<b>13694</b>	<b>342.51</b>	<b>14271</b>	<b>342.91</b>	<b>-0.40</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	520	0	6.11	255
	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	794	940	19.57	815
	Goidwal(GVK) (2*270)	540	0	165	2.98	124
	Rajpura (2*700)	1400	1020	1320	30.77	1282
	Talwandi Saboo (3*660)	1980	924	1400	33.14	1381
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3258</b>	<b>3825</b>	<b>92.59</b>	<b>3858</b>
	Total Hydro	1000	429	413	11.77	490
	Wind Power	0	0	0	0.00	0
	Biomass	303	0	0	2.66	111
	Solar	859	0	0	4.16	173
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>6.81</b>	<b>284</b>
	<b>Total Punjab</b>	<b>8722</b>	<b>3687</b>	<b>4238</b>	<b>111.17</b>	<b>4632</b>
	Haryana	Panipat TPS (2*210+2*250)	920	786	752	18.66
DCRTPP (Yamuna nagar) (2*300)		600	290	290	6.62	276
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (kherda) (IPP) (2*600)		1200	1077	1107	25.51	1063
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (3*660)		1320	1168	1177	28.53	1189
<b>Thermal (Total)</b>		<b>4497</b>	<b>3321</b>	<b>3326</b>	<b>79.32</b>	<b>3305</b>
Total Hydro		62	14	22	0.45	19
Wind Power		0	0	0	0.00	0
Biomass		106	0	0	0.72	30
Solar		50	0	0	0.17	7
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>0.89</b>	<b>37</b>
<b>Total Haryana</b>		<b>4715</b>	<b>3335</b>	<b>3348</b>	<b>80.66</b>	<b>3361</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	900	909	22.08
	suratgarh TPS (6*250)	1500	1257	1069	30.28	1261
	Chabra TPS (4*250)	1000	685	694	16.69	695
	Chabra TPS (1*660)	660	0	0	0.00	0
	Dholpur GPS (3*110)	330	14	19	0.44	18
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	163	172	4.25	177
	RAPS A (NPC) (1*100+1*200)	300	171	171	3.98	166
	Barsingsar (NLC) (2*125)	250	207	165	4.65	194
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	851	953	20.62	859
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	554	509	13.00	542
	Kawai(Adani) (2*660)	1320	446	434	10.54	439
	<b>Thermal (Total)</b>	<b>9536</b>	<b>5248</b>	<b>5095</b>	<b>126.52</b>	<b>5272</b>
	Total Hydro	550	0	0	0.00	0
	Wind power	4292	75	1602	12.01	501
	Biomass	102	24	24	0.58	24
	Solar	1995	0	0	12.14	506
	Renewable/Others (Total)	6389	99	1626	24.73	1031
	<b>Total Rajasthan</b>	<b>16475</b>	<b>5347</b>	<b>6721</b>	<b>151.25</b>	<b>6302</b>
	UP	Anpara TPS (3*210+2*500)	1630	1334	1326	33.16
Obra TPS (2*50+2*94+5*200)		1194	479	468	11.26	469
Paricha TPS (2*110+2*220+2*250)		1160	886	531	16.13	672
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	544	514	11.80	492
Tanda TPS (NTPC) (4*110)		440	365	216	6.94	289
Roza TPS (IPP) (4*300)		1200	919	774	19.06	794
Anpara-C (IPP) (2*600)		1200	1087	1085	26.07	1086
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	401	223	6.92	288
Anpara-D(2*500)		1000	898	900	21.61	900
Lalitpur TPS(3*660)		1980	902	899	18.45	769
Bara(3*660)		1980	1020	1111	21.27	886
<b>Thermal (Total)</b>		<b>13109</b>	<b>8835</b>	<b>8047</b>	<b>192.66</b>	<b>8028</b>
Vishnupurayag HPS (IPP)(4*110)		440	375	365	8.09	337
Alakananda(4*82.5)		330	82	82	2.92	121
Other Hydro		527	73	5	0.99	41
Cogeneration		1360	500	500	12.00	500
Wind Power		0	0	0	0.00	0
Biomass		26	0	0	0.00	0
Solar		472	0	0	0.00	0
<b>Renewable(Total)</b>		<b>498</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
<b>Total UP</b>	<b>16264</b>	<b>9865</b>	<b>8999</b>	<b>216.66</b>	<b>9027</b>	
Uttarakhand	Other Hydro	1250	759	505	15.65	652
	Total Gas	450	261	243	5.54	231
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	100	0	0	0.79	33
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.79</b>	<b>33</b>
	<b>Total Uttarakhand</b>	<b>2107</b>	<b>1020</b>	<b>748</b>	<b>21.98</b>	<b>916</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	132	144	3.24	135
	Pragati Gas Turbine (2x104+ 1x122)	330	263	269	6.50	271
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	431	430	10.44	435
	Badarpur TPS (NTPC) (3*95+2*210)	705	291	291	6.52	272
	<b>Thermal (Total)</b>	<b>2917</b>	<b>1117</b>	<b>1133</b>	<b>26.70</b>	<b>1112</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>1117</b>	<b>1133</b>	<b>26.70</b>	<b>1112</b>	

HP	Baspa HPS (IPP) (3*100)	300	185	185	4.48	187	
	Malana HPS (IPP) (2*43)	86	30	64	0.97	40	
	Other Hydro (>25MW)	372	357	303	7.51	313	
	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	198	163	4.18	174	
	Renewable(Total)	486	198	163	4.18	174	
	Total HP	1244	770	716	17.15	714	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	591	689	15.46	644
		Other Hydro/IPP(Including 98 MW Small Hydro)	308	159	132	3.49	145
		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	750	821	18.94	789	
Total State Control Area Generation		53860	25891	26724	644.50	26854	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7806	7297	253.80	10575		
Total Regional Availability(Gross)		80027	52781	47716	1240.81	51700	

IV. Total Hydro Generation:

Regional Entities Hydro	12564	10311	5128	150.19	6213
State Control Area Hydro	7468	3513	3172	71.76	3428
Total Regional Hydro	20032	13824	8299	221.95	9641

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.15	6
State Control Area Renewable	9214	297	1789	37.41	1559
Total Regional Renewable	9244	297	1789	37.55	1565

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)	200	100	250	-200	3.50	0.23	3.26
765 KV Gwalior-Agra (D/C)	1300	1210	1348	0	27.97	0.00	27.97
400 KV Zerda-Kankroli	-347	-227	0	390	0.00	6.53	-6.53
400 KV Zerda-Bhinmal	-124	-267	0	347	0.00	4.66	-4.66
220 KV Auraiya-Malanpur	40	66	66	0	0.95	0.00	0.95
220 KV Badod-Kota/Morak	-65	-6	53	60	0.04	0.00	0.04
Mundra-Mohindergarh(HVDC Bipole)	1203	1197	1405	0	29.59	0.00	29.59
400 KV RAPPC-Sujalpur	148	124	286	0	3.57	0.00	3.57
400 KV Vindhychal-Rihand	-961	-956	0	971	0.00	22.79	-22.79
765 KV Phagt-Gwalior (D/C)	1447	1505	809	0	33.02	0.00	33.02
+/- 800 KV HVDC Champa-Kurushetra	2300	2000	2500	0	50.49	0	50.49
765KV Orai-Jabalpur	0	0	0	0	22.74	0	22.74
765KV Orai-Satna	0	0	0	0	41.80	0	41.80
765KV Orai-Gwalior	0	0	0	0	0.00	5	-4.95
<b>Sub Total WR</b>	<b>5141</b>	<b>4746</b>			<b>213.66</b>	<b>39.16</b>	<b>174.50</b>
400 kV Sasaram - Varanasi	-10	-36	29	68	0.00	0.82	-0.82
400 kV Sasaram - Allahabad	-83	-67	0	103	0.00	1.63	-1.63
400 KV MZP- GKP (D/C)	124	248	528	0	7.29	0.00	7.29
400 KV Patna-Balia(D/C) X 2	576	672	1028	0	18.00	0.00	18.00
400 KV B'Sharif-Balia (D/C)	252	215	462	0	6.76	0.00	6.76
765 KV Gaya-Balia	548	392	548	0	9.49	0.00	9.49
765 KV Gaya-Varanasi (D/C)	-76	-246	273	51	4.88	0.00	4.88
220 KV Pusaui-Sahupuri	202	184	205	0	4.51	0.00	4.51
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.96	-0.96
132 KV Son Ngr-Rihand	0	0	0	0	0.67	0.00	0.67
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-128	13	133	148	0.61	0.00	0.61
400 KV Mothari -GKP (D/C)	149	259	296	0	5.47	0.00	5.47
400 kV B'Sharif - Varanasi (D/C)	111	-83	171	184	1.61	0.00	1.61
+/- 800 KV HVDC Alipurduar-Agra	500	500	500	0	11.72	0.00	11.72
<b>Sub Total ER</b>	<b>2165</b>	<b>2051</b>			<b>71.00</b>	<b>3.41</b>	<b>67.59</b>
+/- 800 KV HVDC Biswanath-Charialli-Agra	500	500	500	0.00	11.72	0.00	11.72
<b>Sub Total NER</b>	<b>500</b>	<b>500</b>			<b>11.72</b>	<b>0.00</b>	<b>11.72</b>
<b>Total IR Exch</b>	<b>7806</b>	<b>7297</b>			<b>296.38</b>	<b>42.57</b>	<b>253.80</b>

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
59.59	1.31	60.90	25.35	4.58	0.44	21.97	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
85.38	172.26	257.64	79.31	174.50	253.80	-6.07	2.24	-3.84

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	-19	-13	0	28	0	0	-0.36

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	0.80	11.50	61.80	81.30	7.40	0.30	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	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	Std. Dev.	(Hz)	(Hz)	
50.13	13.02	49.75	15.23	49.97	0.043	0.060	50.07	49.80	18.70

## 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	3:29	398	13:10	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	6:03	392	19:18	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	410	6:03	386	13:26	0.0	0.1	0.0	0.0	0.0
Kanpur	400	413	6:00	399	14:36	0.0	0.0	0.0	0.0	0.0
Dadri	400	411	6:00	393	14:33	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	411	6:01	391	14:37	0.0	0.0	0.0	0.0	0.0
Bawana	400	409	6:01	392	14:35	0.0	0.0	0.0	0.0	0.0
Bassi	400	410	3:59	390	0:05	0.0	0.0	0.0	0.0	0.0
Hissar	400	406	4:00	392	14:33	0.0	0.0	0.0	0.0	0.0
Moga	400	406	4:03	393	14:36	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	409	4:00	395	10:21	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	413	5:09	397	11:50	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	407	5:00	397	11:53	0.0	0.0	0.0	0.0	0.0
Wagoora	400	400	23:42	391	11:26	0.0	0.0	0.0	0.0	0.0
Amritsar	400	408	4:04	393	11:48	0.0	0.0	0.0	0.0	0.0
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	404	3:09	393	10:21	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	408	6:01	262	20:02	0.0	2.1	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	775	6:03	746	19:24	0.0	0.0	0.0	0.0	0.0
Balia	765	788	6:02	752	19:22	0.0	0.0	0.0	0.0	0.0
Moga	765	780	4:04	753	14:36	0.0	0.0	0.0	0.0	0.0
Agra	765	783	6:01	751	23:38	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	792	4:07	762	14:36	0.0	0.0	0.0	0.0	0.0
Unnao	765	768	6:03	739	19:26	0.0	3.0	0.0	0.0	0.0
Lucknow	765	793	6:02	758	19:25	0.0	0.0	0.0	0.0	0.0
Meerut	765	793	6:00	714	9:53	0.0	0.1	0.0	0.0	0.0
Jhatikara	765	776	6:01	740	14:38	0.0	0.2	0.0	0.0	0.0
Bareilly 765 kV	765	793	6:02	758	19:43	0.0	0.0	0.0	0.0	0.0
Anta	765	791	4:01	768	23:33	0.0	0.0	0.0	0.0	0.0
Phagi	765	791	3:58	765	14:26	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	455.89	89.41	470.89	282.71	423.42	548.13
Pong	426.72	384.05	392.46	88.85	394.61	121.45	37.18	147.02
Tehri	829.79	740.04	744.50	21.51	745.45	26.24	130.97	154.00
Koteswar	612.50	598.50	610.55	4.84	610.05	4.57	154.00	140.66
Chamera-I	760.00	748.75	754.04	0.00	0.00	0.00	198.11	199.87
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	498.81	3.34	513.70	6.77	156.57	169.06

\* 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	121	-101	0	121	-201	0	2.92	-3.42	-0.50
Delhi	647	48	0	548	-46	0	15.22	3.39	18.61
Haryana	401	5	0	213	5	0	2.97	0.88	3.85
HP	-509	-203	0	-767	-386	0	-10.48	-4.30	-14.78
J&K	-755	885	0	-755	737	0	-18.13	16.42	-1.71
CHD	0	0	0	0	0	0	0.00	0.78	0.78
Rajasthan	-8	-41	0	-8	-45	0	-0.20	7.93	7.73
UP	1851	394	0	1336	149	0	41.23	2.90	44.13
Uttarakhand	34	473	0	29	245	0	0.98	6.23	7.21
<b>Total</b>	<b>1782</b>	<b>1462</b>	<b>0</b>	<b>718</b>	<b>458</b>	<b>0</b>	<b>34.51</b>	<b>30.81</b>	<b>65.32</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	121	121	-101	-503	0	0
Delhi	748	547	838	-712	0	0
Haryana	432	-344	204	4	0	0
HP	-123	-844	164	-524	0	0
J&K	-755	-755	885	420	0	0
CHD	0	0	89	-15	0	0
Rajasthan	-8	-8	1462	-62	0	0
UP	1873	1318	1116	-376	0	0
Uttarakhand	64	29	474	21	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	11
Haryana	0	12
Rajasthan	4	25
Delhi	4	31
UP	0	10
Uttarakhand	1	13
HP	4	23
J & K	5	30
Chandigarh	4	35

**XIII. System Constraints:**

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

**XV. Weather Conditions For 25.05.2018 :**

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

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

0.00

**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 : 25.05.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER