

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 27.03.2018  
Date of Reporting : 28.03.2018



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
41838	1935	43773	49.91	34987	252	35240	50.01	900.31	10.98

\* 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)							UI (OD:(+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	83.04	6.88	0.00	2.92	0.00	2.77	95.61	31.42	31.38	-0.04	126.99	0.00
Haryana	65.83	0.32	6.98	0.18	0.00	1.29	74.59	43.50	45.41	1.91	120.00	0.28
Rajasthan	113.80	0.90	3.80	2.89	12.88	4.92	139.19	41.03	40.06	-0.97	179.26	0.00
Delhi	-0.01	0.00	10.83	0.00	0.00	0.00	10.82	62.11	62.57	0.46	73.40	0.02
UP	154.70	6.44	0.00	3.33	0.00	21.60	186.06	105.53	107.08	1.55	293.14	0.48
Uttarakhand	0.00	6.69	0.00	0.83	0.00	0.00	7.53	27.27	27.78	0.51	35.31	0.00
HP	0.00	3.05	0.00	0.00	0.00	2.67	5.72	18.84	19.88	1.05	25.61	0.00
J & K	0.00	5.67	0.00	0.00	0.00	0.00	5.67	38.22	37.52	-0.71	43.19	10.20
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.12	3.43	0.31	3.43	0.00
<b>Total</b>	<b>417.36</b>	<b>29.95</b>	<b>21.61</b>	<b>10.15</b>	<b>12.88</b>	<b>33.25</b>	<b>525.20</b>	<b>371.04</b>	<b>375.11</b>	<b>4.07</b>	<b>900.31</b>	<b>10.98</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	5929	9	
Punjab	5791	0	38	-1269	4277	0	-37	-1320	5929	9	0
Haryana	5798	0	183	-551	4665	0	49	-475	5805	20	542
Rajasthan	7062	0	157	-134	7249	0	-486	-362	9130	8	0
Delhi	3476	0	-3	-332	2318	0	21	-751	3688	12	0
UP	14414	1375	581	67	12823	0	15	42	14414	19	1375
Uttarakhand	1778	0	204	650	1307	0	23	660	1806	20	150
HP	1093	0	-54	-61	825	0	11	324	1372	8	0
J&K	2241	560	256	683	1429	252	-286	693	2241	19	560
Chandigarh	183	0	-7	-45	95	0	33	-45	183	19	0
<b>Total</b>	<b>41838</b>	<b>1935</b>	<b>1356</b>	<b>-992</b>	<b>34987</b>	<b>252</b>	<b>-658</b>	<b>-1234</b>	<b>41838</b>	<b>19</b>	<b>1935</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
	Singrauli STPS (5*200+2*500)	2000	861	645	1115	22.10	921	20.63	1.47
	Rihand I STPS (2*500)	1000	450	498	496	11.06	461	10.76	0.31
	Rihand II STPS (2*500)	1000	943	1022	998	22.74	948	22.32	0.42
	Rihand III STPS (2*500)	1000	943	1017	1001	22.75	948	22.44	0.31
	Dadri I STPS (4*210)	840	769	813	578	16.67	695	17.35	-0.68
	Dadri II STPS (2*490)	980	477	496	397	9.79	408	9.78	0.00
	Unchahar I TPS (2*210)	420	382	398	367	7.51	313	7.61	-0.10
	Unchahar II TPS (2*210)	420	382	410	344	7.82	326	7.89	-0.07
	Unchahar III TPS (1*210)	210	191	210	188	3.89	162	3.90	-0.01
	Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar) (3*500)	1500	850	901	906	20.22	843	20.24	-0.02
	Dadri GPS (4*130.19+2*154.51)	830	805	185	182	3.91	163	3.92	0.00
	Anta GPS (3*88.71+1*153.2)	419	406	0	0	0.00	0	0.00	0.00
	Auraya GPS (4*111.19+2*109.30)	663	646	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	0.07	0.01
	KHEP(4*200)	800	792	864	0	2.61	109	2.38	0.23
	<b>Sub Total (A)</b>	<b>12612</b>	<b>8903</b>	<b>7459</b>	<b>6572</b>	<b>151</b>	<b>6302</b>	<b>149</b>	<b>1.87</b>
	NAPS- (2*220)	440	395	422	438	9.39	391	9.47	-0.08
	RAPS- B (2*220)	440	390	425	433	9.30	387	9.26	0.04
	RAPS- C (2*220)	440	200	229	229	4.56	190	4.80	-0.24
	<b>Sub Total (B)</b>	<b>1320</b>	<b>985</b>	<b>1076</b>	<b>1100</b>	<b>23.25</b>	<b>969</b>	<b>23.53</b>	<b>-0.28</b>
	Chamera I HPS (3*180)	540	534	547	0	2.35	98	2.20	0.15
	Chamera II HPS (3*100)	300	296	299	0	1.88	79	1.77	0.11
	Chamera III HPS (3*77)	231	228	234	0	1.32	55	1.15	0.17
	Bairasuli HPS(3*60)	180	61	183	0	1.18	49	0.98	0.21
	Salal-HPS (6*115)	690	103	560	90	3.53	147	2.49	1.04
	Tanakpur-HPS (3*31.4)	94	18	32	17	0.44	18	0.46	-0.02
	Uri-I HPS (4*120)	480	222	360	181	5.81	242	5.32	0.49
	Uri-II HPS (4*60)	240	139	123	123	3.48	145	3.33	0.15
	Dhauliganga-HPS (4*70)	280	207	210	0	0.92	38	0.84	0.08
	Dulhasti-HPS (3*130)	390	385	414	0	2.50	104	2.30	0.20
	Sewa-II HPS (3*40)	120	119	121	0	1.02	43	1.00	0.02
	Parbati 3 (4*130)	520	8	129	0	0.21	9	0.19	0.02
	<b>Sub Total (C)</b>	<b>4065</b>	<b>2319</b>	<b>3212</b>	<b>412</b>	<b>25</b>	<b>1027</b>	<b>22</b>	<b>2.63</b>
	NJPC (6*250)	1500	1497	1495	0	7.36	307	7.00	0.36
	Rampur HEP (6*68.67)	412	412	434	0	2.02	84	1.95	0.07
	<b>Sub Total (D)</b>	<b>1912</b>	<b>1910</b>	<b>1929</b>	<b>0</b>	<b>9.37</b>	<b>391</b>	<b>8.95</b>	<b>0.43</b>
	Tehri HPS (4*250)	1000	545	542	0	6.11	255	6.10	0.01
	Koteswar HPS (4*100)	400	111	302	93	2.69	112	2.66	0.03
	<b>Sub Total (E)</b>	<b>1400</b>	<b>655</b>	<b>844</b>	<b>93</b>	<b>8.80</b>	<b>367</b>	<b>8.76</b>	<b>0.05</b>
	Bhakra HPS (2*108+3*126+5*157)	1379	574	1147	407	13.91	580	13.77	0.14
	Dehar HPS (6*165)	990	122	495	0	3.10	129	2.92	0.18
	Pong HPS (6*66)	396	61	156	0	1.50	62	1.45	0.05
	<b>Sub Total (F)</b>	<b>2765</b>	<b>756</b>	<b>1798</b>	<b>407</b>	<b>18.51</b>	<b>771</b>	<b>18.14</b>	<b>0.37</b>
	Allain DuhanganHPS(IPP) (2*96)	192	0	49	0	0.44	18	0.42	0.02
	Karcham Wantoo HPS(IPP) (4*250)	1000	0	775	0	3.89	162	3.79	0.09
	Malana Stg-II HPS (2*50)	100	0	0	0	0.22	9	0.20	0.01
	Shree Cement TPS (2*150)	300	0	259	183	5.82	243	6.00	-0.18
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.18	7	0.14	0.04
	Sainj HPS (IPP) (2*50)	100	0	0	0	0.20	0.20	0.00	
	<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>1083</b>	<b>183</b>	<b>10.54</b>	<b>439</b>	<b>10.55</b>	<b>-0.02</b>
	<b>H. Total Regional Entities (A-G)</b>	<b>25837</b>	<b>15528</b>	<b>17401</b>	<b>8767</b>	<b>246.36</b>	<b>10265</b>	<b>241.32</b>	<b>5.04</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	630	500	12.97	540	
	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	462	365	9.47	395	
	Goindwal(GVK) (2*270)	540	0	0	-0.10	-4	
	Rajpura (2*700)	1400	1320	1320	31.71	1321	
	Talwandi Saboo (3*660)	1980	1228	1190	29.01	1209	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3640</b>	<b>3375</b>	<b>83.04</b>	<b>3460</b>	
	Total Hydro	1000	159	183	6.88	287	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	115	115	2.77	115	
	Solar	859	0	0	2.92	122	
	<b>Renewable(Total)</b>	<b>1162</b>	<b>115</b>	<b>115</b>	<b>5.69</b>	<b>237</b>	
	<b>Total Punjab</b>	<b>8722</b>	<b>3914</b>	<b>3673</b>	<b>95.61</b>	<b>3984</b>	
	Haryana	Paripat TPS (2*210+2*250)	920	423	456	10.98	457
		DCRTPP (Yamuna nagar) (2*300)	600	0	0	0.00	0
		Faridabad GPS (NTPC)(2*137.75+1*156)	432	286	290	6.98	291
		RGTPP (kheadar) (IPP) (2*600)	1200	1111	1155	27.17	1132
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1155	1174	27.69	1154	
<b>Thermal (Total)</b>		<b>4497</b>	<b>2975</b>	<b>3075</b>	<b>72.80</b>	<b>3034</b>	
Total Hydro		62	4	15	0.32	13	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	1.29	54	
Solar		50	0	0	0.18	7	
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>1.47</b>	<b>61</b>	
<b>Total Haryana</b>		<b>4715</b>	<b>2979</b>	<b>3090</b>	<b>74.59</b>	<b>3108</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	869	890	21.06	877
		suratgarh TPS (6*250)	1500	175	175	4.36	182
		Chabra TPS (4*250)	1000	1259	1255	25.78	1074
		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	154	162	3.80	158	
	RAPS A (NPC) (1*100+1*200)	300	190	187	4.36	182	
	Barsingsar (NLC) (2*125)	250	177	167	3.91	163	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	825	819	19.36	807	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1119	825	25.11	1046	
	Kawai(Adani) (2*660)	1320	616	597	14.22	593	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>5384</b>	<b>5077</b>	<b>121.96</b>	<b>5082</b>	
	Total Hydro	550	63	40	0.90	37	
	Wind power	4292	229	447	12.88	537	
	Biomass	102	24	24	0.57	24	
	Solar	1995	0	0	2.89	121	
	Renewable/Others (Total)	6389	253	471	16.34	681	
	<b>Total Rajasthan</b>	<b>16475</b>	<b>5700</b>	<b>5588</b>	<b>139.19</b>	<b>5800</b>	
	UP	Anpara TPS (3*210+2*500)	1630	1340	1322	34.22	1426
Obra TPS (2*50+2*94+5*200)		1194	303	285	6.82	284	
Paricha TPS (2*110+2*220+2*250)		1160	702	701	14.65	611	
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaqanj TPS (1*60+1*105+2*250)		665	546	543	10.52	438	
Tanda TPS (NTPC) (4*110)		440	398	390	7.66	319	
Roza TPS (IPP) (4*300)		1200	727	719	14.45	602	
Anpara-C (IPP) (2*600)		1200	1041	1027	24.29	1012	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	0	0	0.00	0	
Lalitpur TPS(3*660)		1980	1238	1238	24.13	1005	
Bara(3*660)		1980	753	753	17.95	748	
<b>Thermal (Total)</b>		<b>13109</b>	<b>7048</b>	<b>6978</b>	<b>154.70</b>	<b>6446</b>	
Vishnuparvag_HPS (IPP)(4*110)		440	68	73	1.70	71	
Alakanada(4*82.5)		330	76	0	1.04	44	
Other Hydro		527	252	304	3.69	154	
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	3.33	139	
<b>Renewable(Total)</b>		<b>128</b>	<b>0</b>	<b>0</b>	<b>3.33</b>	<b>139</b>	
<b>Total UP</b>	<b>15515</b>	<b>8344</b>	<b>8255</b>	<b>186.06</b>	<b>7753</b>		
Uttarakhand	Other Hydro	1250	440	202	6.69	279	
	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	0.83	35	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.83</b>	<b>35</b>	
<b>Total Uttarakhand</b>	<b>2107</b>	<b>440</b>	<b>202</b>	<b>7.53</b>	<b>314</b>		
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	35	35	0.87	36	
	Pragati Gas Turbine (2x104+ 1x122)	330	145	155	3.66	152	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	281	254	6.31	263	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>461</b>	<b>444</b>	<b>10.82</b>	<b>451</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>461</b>	<b>444</b>	<b>10.82</b>	<b>451</b>		

HP	Baspa HPS (IPP) (3*100)	300	29	0	0.98	41
	Malana HPS (IPP) (2*43)	86	0	0	0.21	9
	Other Hydro (>25MW)	372	101	39	1.87	78
	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	176	53	2.67	111
	<b>Renewable(Total)</b>	<b>486</b>	<b>176</b>	<b>53</b>	<b>2.67</b>	<b>111</b>
	<b>Total HP</b>	<b>1244</b>	<b>306</b>	<b>92</b>	<b>5.72</b>	<b>238</b>
	<b>Total J &amp; K</b>	<b>1398</b>	<b>251</b>	<b>235</b>	<b>6</b>	<b>236</b>
<b>Total State Control Area Generation</b>		<b>53111</b>	<b>22395</b>	<b>21579</b>	<b>525.20</b>	<b>21883</b>
<b>J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))</b>		<b>6365</b>	<b>8009.9</b>	<b>139.25</b>	<b>5802</b>	
<b>Total Regional Availability(Gross)</b>		<b>78948</b>	<b>46160</b>	<b>38356</b>	<b>910.81</b>	<b>37951</b>

**IV. Total Hydro Generation:**

<b>Regional Entities Hydro</b>	<b>12234</b>	<b>9471</b>	<b>912</b>	<b>68.66</b>	<b>2853</b>
<b>State Control Area Hydro</b>	<b>7468</b>	<b>1619</b>	<b>1144</b>	<b>29.95</b>	<b>1394</b>
<b>Total Regional Hydro</b>	<b>19702</b>	<b>11090</b>	<b>2056</b>	<b>98.61</b>	<b>4247</b>

**V. Total Renewable Generation:**

<b>Regional Entities Renewable</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0.15</b>	<b>6</b>
<b>State Control Area Renewable</b>	<b>8844</b>	<b>544</b>	<b>639</b>	<b>30.32</b>	<b>1263</b>
<b>Total Regional Renewable</b>	<b>8874</b>	<b>544</b>	<b>639</b>	<b>30.47</b>	<b>1270</b>

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

Element	Peak(19:00 Hrs)		Dff Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	150	0	200	200	2.17	1.73	0.44		
765 KV Gwalior-Agra (D/C)	1446	1986	2275	0	43.62	0.00	43.62		
400 KV Zerda-Kankroli	-377	-342	0	456	0.00	8.38	-8.38		
400 KV Zerda-Bhinmal	-326	-336	0	445	0.00	7.46	-7.46		
220 KV Aurajya-Malanpur	-71	-45	0	113	0.00	1.39	-1.39		
220 KV Badod-Kota/Morak	-120	-125	22	174	0.00	1.88	-1.88		
Mundra-Mohindergarh(HVDC Bipole)	301	301	304	0	7.37	0.00	7.37		
400 KV RAPPCC-Sujalpur	-107	84	174	-154	0.56	0.00	0.56		
400 KV Vindhychal-Rihand	968	961	0	979	0.00	22.86	-22.86		
765 kV Phagi-Gwalior (D/C)	254	716	896	0	15.81	0.00	15.81		
+/- 800 kV HVDC Champa-Kurushetra	2000	2000	2500	0	47.19	0	47.19		
765KV Orai-Jabalpur	733	1046	1165	0	22.37	0	22.37		
765KV Orai-Salna	0	0	0	0	0.00	0	0.00		
765KV Orai-Gwalior	0	0	0	0	0.00	0	0.00		
<b>Sub Total WR</b>	<b>4851</b>	<b>6246</b>			<b>139.10</b>	<b>43.70</b>	<b>95.39</b>		
400 kv Sasaram - Varanasi	-30	-18	38	39	0.00	0.28	-0.28		
400 kv Sasaram - Allahabad	-101	-100	0	101	0.00	1.71	-1.71		
400 KV MZP- GKP (D/C)	12	66	216	3	2.03	0.00	2.03		
400 KV Patna-Balia(D/C) X 2	495	490	570	0	11.22	0.00	11.22		
400 KV B'Sharif-Balia (D/C)	143	152	216	0	3.75	0.00	3.75		
765 KV Gaya-Balia	238	299	369	0	5.13	0.00	5.13		
765 KV Gaya-Varanasi (D/C)	106	149	311	0	4.85	0.00	4.85		
220 KV Pusauli-Sahupuri	155	132	158	0	3.28	0.00	3.28		
132 KV Knasa-Sahupuri	0	0	1	0	0.00	0.00	0.00		
132 KV Son Ngr-Rihand	-29	-32	0	35	0.00	0.74	-0.74		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-105	-75	74	105	0.00	0.65	-0.65		
400 KV Mothari -GKP (D/C)	128	198	244	0	4.35	0.00	4.35		
400 kv B'Sharif - Varanasi (D/C)	2	3	139	3	1.05	0.00	1.05		
+/- 800 KV HVDC Alipurduar-Agra	500	500	500	0	11.58	0.00	11.58		
<b>Sub Total ER</b>	<b>1514</b>	<b>1764</b>			<b>47.24</b>	<b>3.38</b>	<b>43.86</b>		
+/- 800 KV HVDC BiswanathChariali-Agra	0	0	0	0.00	0.00	0.00	0.00		
<b>Sub Total NER</b>	<b>0</b>	<b>0</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		
<b>Total IR Exch</b>	<b>6365</b>	<b>8010</b>			<b>186.33</b>	<b>47.08</b>	<b>139.25</b>		

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
57.85	0.07	57.91	-10.86	-19.36	-0.78	1.75	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
46.28	102.90	149.17	43.86	95.39	139.25	-2.41	-7.51	-9.92

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

Element	Peak(19:00 Hrs)		Dff Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	0	-33	0	0	0	0	0	0	-0.43

**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	1.66	24.79	72.38	68.40	5.53	1.28	0.03	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)	
50.17	7.59	49.73	15.46	49.95	0.077	0.072	50.05	49.79	31.60

## 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	>420 kV	>430 kV	
Rihand	400	409	5:36	399	19:41	0.0	0.0	0.0	0.0
Gorakhpur	400	418	7:59	399	18:22	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	417	7:59	398	18:38	0.0	0.0	0.0	0.0
Kanpur	400	420	7:59	407	18:37	0.0	0.0	0.0	0.0
Dadri	400	423	4:46	406	18:53	0.0	0.0	5.4	5.4
Ballabgarh	400	423	4:02	407	18:53	0.0	0.0	9.0	9.0
Bawana	400	425	4:49	404	18:53	0.0	0.0	13.6	13.6
Bassi	400	419	4:00	401	19:18	0.0	0.0	0.0	0.0
Hissar	400	421	4:48	402	18:53	0.0	0.0	0.8	0.8
Moga	400	422	4:46	404	18:51	0.0	0.0	1.3	1.3
Abdullapur	400	429	4:49	407	18:52	0.0	0.0	25.7	25.7
Nalagarh	400	432	4:48	410	18:38	0.0	0.0	44.6	44.6
Kishenpur	400	428	4:47	408	19:12	0.0	0.0	19.8	19.8
Wagoora	400	411	4:46	389	19:38	0.0	0.1	0.0	0.0
Amritsar	400	428	4:47	408	18:53	0.0	0.0	23.1	23.1
Kashipur	400	402	0:00	402	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	425	4:45	405	14:41	0.0	0.0	17.8	17.8
Rishikesh	400	413	5:01	389	18:37	0.0	0.1	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	>820 kV	
Fatehpur	765	788	13:02	745	19:11	0.0	0.0	0.0	0.0
Balia	765	785	13:04	759	18:23	0.0	0.0	0.0	0.0
Moga	765	800	1:14	773	18:53	0.0	0.0	0.0	0.0
Agra	765	795	13:02	762	19:17	0.0	0.0	0.0	0.0
Bhiwani	765	802	4:00	775	19:10	0.0	0.0	2.2	2.2
Unnao	765	779	7:59	755	18:37	0.0	0.0	0.0	0.0
Lucknow	765	793	8:02	764	18:25	0.0	0.0	0.0	0.0
Meerut	765	805	1:15	776	18:37	0.0	0.0	4.7	4.7
Jhatikara	765	799	4:48	635	11:25	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	795	8:01	762	18:37	0.0	0.0	0.0	0.0
Anta	765	789	13:02	768	19:00	0.0	0.0	0.0	0.0
Phagi	765	796	13:02	774	15:21	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	473.73	329.69	464.86	191.18	178.28	460.63
Pong	426.72	384.05	394.18	111.75	396.56	151.67	37.60	120.74
Tehri	829.79	740.04	767.95	189.48	764.85	161.84	41.84	182.00
Koteshwar	612.50	598.50	610.04	4.44	610.96	5.20	182.00	177.80
Chamera-I	760.00	748.75	753.86	0.00	0.00	0.00	68.62	63.34
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	495.81	1.47	505.88	0.89	73.17	61.47

\* 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	-1118	-202	0	-1269	0	0	-28.04	-1.82	-29.86
Delhi	-448	-304	0	-453	121	0	-10.12	0.27	-9.85
Haryana	-505	30	0	-555	4	0	-14.17	-0.13	-14.31
HP	255	69	0	198	-259	0	7.88	-0.80	7.08
J&K	516	178	0	516	168	0	11.84	4.89	16.73
CHD	-45	0	0	-45	0	0	-0.54	-0.01	-0.55
Rajasthan	-91	-271	0	-29	-105	0	-2.45	-8.12	-10.57
UP	67	-25	0	67	0	0	1.55	-0.26	1.30
Uttarakhand	196	464	0	196	454	0	4.83	11.35	16.17
Total	-1173	-62	0	-1376	384	0	-29.23	5.37	-23.86

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-1118	-1421	0	-202	0	0
Delhi	-351	-456	391	-351	0	0
Haryana	-505	-762	30	-546	0	0
HP	544	149	220	-605	0	0
J&K	516	471	435	-473	0	0
CHD	0	-45	15	-35	0	0
Rajasthan	-29	-338	292	-1720	0	0
UP	67	62	0	-35	0	0
Uttarakhand	225	196	665	235	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	3	30
Rajasthan	1	15
Delhi	2	26
UP	0	8
Uttarakhand	5	65
HP	6	27
J & K	4	36
Chandigarh	5	39

**XIII. System Constraints:**

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

**XV. Weather Conditions For 27.03.2018 :**

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

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

1. 330 MVAR Bus reactor -II first time charged at 01:02 hrs of 28.03.2018 at 765KV Orai (PG) .

**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 : 27.03.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER