

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 29.06.2018

Date of Reporting : 30.06.2018



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
47900	1146	49045	49.88	43187	183	43370	49.99	1084.68	8.63

\* 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	60.76	10.63	0.00	4.16	0.00	2.66	78.20	104.61	102.86	-1.75	181.07	0.00
Haryana	20.89	0.94	0.00	0.12	0.00	0.73	22.68	129.60	133.16	3.56	155.84	0.27
Rajasthan	82.47	0.35	3.47	6.64	7.77	4.21	104.90	51.53	51.34	-0.19	156.24	0.00
Delhi	6.69	0.00	16.02	0.00	0.00	0.51	23.22	93.50	91.68	-1.82	114.90	0.07
UP	172.09	16.96	0.00	2.57	0.00	6.00	197.61	166.67	167.85	1.18	365.46	0.00
Uttarakhand	0.00	22.43	6.65	0.68	0.00	0.00	29.76	14.66	15.37	0.71	45.13	0.00
HP	0.00	17.63	0.00	0.00	0.00	4.01	21.64	1.77	4.17	2.40	25.81	0.09
J & K	0.00	25.39	0.00	0.00	0.00	0.00	25.39	13.89	9.17	-4.72	34.55	8.20
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.12	5.70	-0.42	5.70	0.00
<b>Total</b>	<b>342.91</b>	<b>94.31</b>	<b>26.13</b>	<b>14.16</b>	<b>7.77</b>	<b>18.12</b>	<b>503.40</b>	<b>582.35</b>	<b>581.28</b>	<b>-1.07</b>	<b>1084.68</b>	<b>8.63</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	STO/FPX transaction	Demand Met	Shortage	UI	STO/FPX transaction			
Punjab	7362	0	-216	1429	6154	0	-202	1726	8640	12	0
Haryana	6799	51	157	1660	6348	0	-6	1562	7620	23	0
Rajasthan	6737	0	137	-726	5958	0	56	-127	7247	23	0
Delhi	4787	0	-78	450	4829	0	78	551	5400	16	0
UP	17144	690	197	1294	15861	0	149	2182	17318	24	140
Uttarakhand	2046	0	-54	126	1797	0	-18	98	2102	21	0
HP	1143	0	183	-1677	996	0	113	-1377	1355	11	0
J&K	1622	405	-41	-524	1037	183	-342	-816	2312	21	578
Chandigarh	259	0	-9	-30	207	0	-38	0	307	16	0
<b>Total</b>	<b>47900</b>	<b>1146</b>	<b>275</b>	<b>2002</b>	<b>43187</b>	<b>183</b>	<b>-210</b>	<b>3799</b>	<b>49669</b>	<b>21</b>	<b>1211</b>

\* STO/FPX figures are at sellers boundary & FPX figures are at regional boundary. # figures may not be at simultaneous hour.

III. Regional Entities :

A. NTPC	Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
		(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS (6*200+2*500)	2000	1200	1336	1133	28.38	1182	27.23	1.15
	Rihand I STPS (2*500)	1000	923	1003	663	18.68	778	18.13	0.55
	Rihand II STPS (2*500)	1000	943	1010	719	20.28	845	19.73	0.54
	Rihand III STPS (2*500)	1000	943	998	718	19.25	802	17.98	1.27
	Dadri I STPS (4*210)	840	769	815	511	13.02	543	13.28	-0.26
	Dadri II STPS (2*490)	980	464	491	486	10.84	452	11.14	-0.30
	Unchahar I TPS (2*210)	420	382	407	238	6.26	261	6.38	-0.12
	Unchahar II TPS (2*210)	420	382	337	221	5.81	242	6.12	-0.31
	Unchahar III TPS (1*210)	210	191	213	116	3.18	132	3.21	-0.03
	Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
	ISTPP (Jhajjar) (3*500)	1500	700	713	514	13.22	551	13.60	-0.38
	Dadri GPS (4*130.19+2*154.51)	830	0	173	184	3.31	138	3.42	-0.11
	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	0.00	0	0.02	-0.02
	Unchahar Solar(10)	10	2	0	0	0.00	0	0.04	-0.04
	Singrauli Solar(15)	15	2	0	0	0.06	3	0.04	0.02
	KHEP(4*200)	800	872	866	796	12.54	522	12.00	0.54
	<b>Sub Total (A)</b>	<b>12612</b>	<b>7773</b>	<b>8362</b>	<b>6299</b>	<b>155</b>	<b>6451</b>	<b>152</b>	<b>2.50</b>
B. NPC	NAPS (2*220)	440	378	409	420	9.01	376	9.07	-0.06
	RAPS- B (2*220)	440	357	394	404	8.57	357	8.57	0.00
	RAPS- C (2*220)	440	408	454	453	9.71	404	9.78	-0.07
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1143</b>	<b>1257</b>	<b>1277</b>	<b>27.29</b>	<b>1137</b>	<b>27.42</b>	<b>-0.13</b>
C. NHPC	Chamera I HPS (3*180)	540	534	552	546	13.08	545	12.80	0.28
	Chamera II HPS (3*100)	300	0	0	0	0.00	0	0.00	0.00
	Chamera III HPS (3*77)	231	0	0	0	0.00	0	0.00	0.00
	Bairasul HPS(3*60)	180	0	0	0	0.00	0	0.00	0.00
	Salaj-HPS (6*115)	690	332	0	675	7.62	317	7.97	-0.35
	Tanakpur-HPS (3*31.4)	94	83	80	96	2.16	90	1.99	0.17
	Uri-I HPS (4*120)	480	316	339	263	8.03	335	7.58	0.45
	Uri-II HPS (4*60)	240	177	244	159	4.45	185	4.25	0.20
	Dhauliganga-HPS (4*70)	280	195	0	292	4.77	199	4.67	0.10
	Dulhasti-HPS (3*130)	390	335	378	392	7.99	333	7.98	0.00
	Sewa-II HPS (3*40)	120	130	32	132	3.14	131	3.12	0.02
	Parbati 3 (4*130)	520	125	502	42	3.00	125	2.99	0.01
	Kishanganga(3*110)	330	248	328	295	6.32	263	5.94	0.38
	<b>Sub Total (C)</b>	<b>4395</b>	<b>2473</b>	<b>2453</b>	<b>2891</b>	<b>61</b>	<b>2523</b>	<b>59</b>	<b>1.27</b>
D.SJVNL	NJPC (6*250)	1500	1605	1640	1629	38.41	1600	37.04	1.37
	Rampur HEP (6*68.67)	412	442	445	445	10.73	447	10.20	0.53
	<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2085</b>	<b>2074</b>	<b>49.14</b>	<b>2048</b>	<b>47.24</b>	<b>1.90</b>
E. THDC	Tehri HPS (4*250)	1000	518	533	129	4.68	195	4.60	0.08
	Koteswar HPS (4*100)	400	103	204	101	2.54	106	2.48	0.06
	<b>Sub Total (E)</b>	<b>1400</b>	<b>621</b>	<b>737</b>	<b>230</b>	<b>7.23</b>	<b>301</b>	<b>7.08</b>	<b>0.15</b>
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	660	1092	543	16.04	668	15.83	0.21
	Dehar HPS (6*165)	990	613	825	590	14.65	610	14.70	-0.05
	Pong HPS (6*68)	396	23	47	47	0.58	24	0.55	0.02
	<b>Sub Total (F)</b>	<b>2765</b>	<b>1295</b>	<b>1964</b>	<b>1180</b>	<b>31.27</b>	<b>1303</b>	<b>31.08</b>	<b>0.19</b>
G. IPP(s)/JV(s)	Allain DuhanganHPS(IPP) (2*96)	192	0	201	196	4.59	191	4.60	-0.01
	Karcharm Wangtoo HPS(IPP) (4*250)	1000	0	1000	910	22.55	939	21.79	0.76
	Malana Sta-II HPS (2*50)	100	0	104	105	2.00	83	1.89	0.11
	Shree Cement TPS (2*150)	300	0	92	67	1.95	81	1.95	0.00
	Budhil HPS(IPP) (2*35)	70	0	36	73	1.06	44	0.78	0.28
	Sani HPS (IPP) (2*50)	100	0				1.63		
	<b>Sub Total (G)</b>	<b>1762</b>	<b>0</b>	<b>1433</b>	<b>1350</b>	<b>32.15</b>	<b>1340</b>	<b>31.01</b>	<b>1.14</b>
<b>H. Total Regional Entities (A-G)</b>		<b>26167</b>	<b>15352</b>	<b>18291</b>	<b>15301</b>	<b>362.44</b>	<b>15102</b>	<b>355.44</b>	<b>7.00</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	340	320	7.03	293	
	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	364	364	7.92	330	
	Goidwal(GVK) (2*270)	540	145	145	4.12	172	
	Rajpura (2*700)	1400	660	660	18.26	761	
	Talwandi Saboo (3*660)	1980	924	924	23.45	977	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>2433</b>	<b>2413</b>	<b>60.76</b>	<b>2532</b>	
	Total Hydro	1000	397	282	10.63	443	
	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>2830</b>	<b>2695</b>	<b>78.20</b>	<b>3259</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
		DCRTPP (Yamuna nagar) (2*300)	600	469	476	11.34	472
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (kharda) (IPP) (2*600)		1200	0	0	0.00	0	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	381	377	9.56	398	
<b>Thermal (Total)</b>		<b>4497</b>	<b>850</b>	<b>853</b>	<b>20.89</b>	<b>871</b>	
Total Hydro		62	26	27	0.94	39	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.73	30	
Solar		50	0	0	0.12	5	
<b>Renewable(Total)</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>0.85</b>	<b>35</b>	
<b>Total Haryana</b>		<b>4715</b>	<b>876</b>	<b>880</b>	<b>22.68</b>	<b>945</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	576	507	12.49	521
		suratgarh TPS (6*250)	1500	195	181	4.40	183
	Chabra TPS (4*250)	1000	770	735	18.14	756	
	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	143	144	3.47	144	
	RAPS A (NPC) (1*100+1*200)	300	164	166	3.85	160	
	Barsingsar (NLC) (2*125)	250	108	210	3.11	130	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	781	438	12.82	534	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	409	406	10.20	425	
	Kawai(Adani) (2*660)	1320	987	857	21.31	888	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>4133</b>	<b>3644</b>	<b>89.78</b>	<b>3741</b>	
	Total Hydro	550	31	0	0.35	15	
	Wind power	4292	122	394	7.77	324	
	Biomass	102	15	15	0.36	15	
	Solar	1995	14	0	6.64	276	
	Renewable/Others (Total)	6389	151	409	14.77	615	
	<b>Total Rajasthan</b>	<b>16475</b>	<b>4315</b>	<b>4053</b>	<b>104.90</b>	<b>4371</b>	
UP	Anpara TPS (3*210+2*500)	1630	1328	1327	30.48	1270	
	Obra TPS (2*50+2*94+5*200)	1194	498	486	10.64	443	
	Paricha TPS (2*110+2*220+2*250)	1160	804	467	13.10	546	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaganj TPS (1*60+1*105+2*250)	665	451	255	7.49	312	
	Tanda TPS (NTPC) (4*110)	440	389	215	5.29	220	
	Roza TPS (IPP) (4*300)	1200	1128	587	16.74	697	
	Anpara-C (IPP) (2*600)	1200	1101	611	19.95	831	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	948	946	21.86	911	
	Lalitpur TPS(3*660)	1980	1034	1017	24.58	1024	
	Bara(3*660)	1980	1045	1115	21.97	915	
	<b>Thermal (Total)</b>	<b>13109</b>	<b>8726</b>	<b>7026</b>	<b>172.09</b>	<b>7170</b>	
	Vishnuparyag HPS (IPP)(4*110)	440	0	435	7.87	328	
	Alakananda(4*82.5)	330	346	308	8.06	336	
	Other Hydro	527	24	48	1.02	43	
	Cogeneration	1360	250	250	6.00	250	
	Wind Power	0	0	0	0.00	0	
	Biomass	26	0	0	0.00	0	
	Solar	472	0	0	2.57	107	
<b>Renewable(Total)</b>	<b>498</b>	<b>0</b>	<b>0</b>	<b>2.57</b>	<b>107</b>		
<b>Total UP</b>	<b>16264</b>	<b>9346</b>	<b>8067</b>	<b>197.61</b>	<b>8234</b>		
Uttarakhand	Other Hydro	1250	956	961	22.43	935	
	Total Gas	450	278	279	6.65	277	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.68	28	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>407</b>	<b>0</b>	<b>0</b>	<b>0.68</b>	<b>28</b>	
	<b>Total Uttarakhand</b>	<b>2107</b>	<b>1234</b>	<b>1240</b>	<b>29.76</b>	<b>1240</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	130	133	3.36	140	
	Pragati Gas Turbine (2x104+ 1x122)	330	263	263	6.50	271	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	255	254	6.16	257	
	Badarpur TPS (NTPC) (3*95+2*210)	705	312	305	6.69	279	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>960</b>	<b>955</b>	<b>22.71</b>	<b>946</b>	
	Wind Power	0	0	0	0.00	0	
	Biomass	16	11	18	0.51	21	
	Solar	2	0	0	0.00	0	
<b>Renewable(Total)</b>	<b>18</b>	<b>11</b>	<b>18</b>	<b>0.51</b>	<b>21</b>		
<b>Total Delhi</b>	<b>2935</b>	<b>971</b>	<b>973</b>	<b>23.22</b>	<b>967</b>		

HP	Baspa HPS (IPP) (3*100)	300	331	331	7.92	330	
	Malana HPS (IPP) (2*43)	86	95	79	1.87	78	
	Other Hydro (>25MW)	372	401	307	7.83	326	
	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	4.01	167	
	Renewable(Total)	486	200	166	4.01	167	
	Total HP	1244	1027	884	21.64	902	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	881	881	21.15	881
		Other Hydro/IPP(Including 98 MW Small Hydro)	308	176	178	4.24	177
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	1057	1059	25.39	1058	
Total State Control Area Generation		53860	21655	19851	503.40	20975	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			10528	8486.34	245.48	10228	
Total Regional Availability(Gross)		80027	50475	43639	1111.31	46305	

IV. Total Hydro Generation:

Regional Entities Hydro	12564	9410	8382	190.92	7911
State Control Area Hydro	7468	4142	4283	94.31	4402
Total Regional Hydro	20032	13552	12665	285.23	12313

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.06	3
State Control Area Renewable	9214	362	593	30.20	1258
Total Regional Renewable	9244	362	593	30.26	1261

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)	100	-250	250	250	1.45	3.72	-2.27
765 KV Gwalior-Agra (D/C)	2589	1677	2789	0	50.22	0.00	50.22
400 KV Zerda-Kankroli	-61	-334	0	489	0.00	6.04	-6.04
400 KV Zerda-Bhinmal	-32	-266	0	393	0.00	4.74	-4.74
220 KV Auraiya-Malanpur	80	47	0	23	1.29	0.00	1.29
220 KV Badod-Kota/Morak	23	38	77	32	1.05	0.00	1.05
Mundra-Mohindergarh(HVDC Bipole)	1702	1500	1712	0	37.09	0.00	37.09
400 KV RAPP-C-Sujalpur	375	168	477	0	6.43	0.00	6.43
400 KV Vindhychal-Rihand	953	676	0	1007	0.00	19.31	-19.31
765 KV Phagt-Gwalior (D/C)	733	848	1339	0	22.54	0.00	22.54
+/- 800 KV HVDC Champa-Kurushetra	0	1500	1500	0	21.87	0	21.87
765KV Orai-Jabalpur	1087	625	1254	0	20.49	0	20.49
765KV Orai-Satna	1855	1482	1882	0	41.55	0	41.55
765KV Orai-Gwalior	-318	-293	0	415	0.00	8	-7.80
<b>Sub Total WR</b>	<b>9086</b>	<b>7417</b>			<b>203.98</b>	<b>41.61</b>	<b>162.37</b>
400 kV Sasaram - Varanasi	-267	-241	-274	0	8.67	0.00	8.67
400 kV Sasaram - Allahabad	-109	-131	168	0	3.28	0.00	3.28
400 KV MZP- GKP (D/C)	364	406	756	0	13.78	0.00	13.78
400 KV Patna-Balia(D/C) X 2	780	764	1001	0	19.70	0.00	19.70
400 KV B'Sharif-Balia (D/C)	269	243	391	0	6.98	0.00	6.98
765 KV Gaya-Balia	411	264	448	0	7.49	0.00	7.49
765 KV Gaya-Varanasi (D/C)	-228	-254	447	0	7.33	0.00	7.33
220 KV Pusaui-Sahupuri	-165	-145	171	0	3.66	0.00	3.66
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.54	-0.54
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.35	-0.35
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-250	-143	0	269	0.00	2.65	-2.65
400 KV Mothari -GKP (D/C)	-275	-180	80	275	0.00	4.40	-4.40
400 kV B'Sharif - Varanasi (D/C)	-87	-64	180	140	1.68	0.00	1.68
+/- 800 KV HVDC Alipurduar-Agra	300	150	300	0	4.68	0.00	4.68
<b>Sub Total ER</b>	<b>743</b>	<b>669</b>			<b>77.24</b>	<b>7.94</b>	<b>69.30</b>
+/- 800 KV HVDC Biswanath-Charialli-Agra	700	400	700	0.00	13.80	0.00	13.80
<b>Sub Total NER</b>	<b>700</b>	<b>400</b>			<b>13.80</b>	<b>0.00</b>	<b>13.80</b>
<b>Total IR Exch</b>	<b>10528</b>	<b>8486</b>			<b>295.02</b>	<b>49.54</b>	<b>245.48</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
44.98	2.37	47.35	41.79	37.66	-3.86	-3.01	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
82.91	164.46	247.37	83.10	162.37	245.48	0.19	-2.09	-1.89

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	-24	-14	0	28	0	0	-0.38

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	0.20	1.10	11.90	70.20	81.30	5.50	1.40	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)		
50.21	13.02	49.67	19.16	49.97	0.051	0.063	50.14	49.83	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	406	6:00	399	19:09	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	414	5:12	390	19:31	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	414	5:57	393	19:18	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	6:00	402	19:15	0.0	0.0	0.0	0.0	0.0
Dadri	400	418	5:58	395	14:26	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	419	6:02	395	14:24	0.0	0.0	0.0	0.0	0.0
Bawana	400	416	5:58	395	14:24	0.0	0.0	0.0	0.0	0.0
Bassi	400	422	6:02	398	14:23	0.0	0.0	1.0	0.0	1.0
Hissar	400	413	6:01	391	14:20	0.0	0.0	0.0	0.0	0.0
Moga	400	411	5:58	395	12:14	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	414	6:03	396	12:46	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	414	5:56	399	12:17	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	415	5:02	403	10:53	0.0	0.0	0.0	0.0	0.0
Wagoora	400	409	3:24	395	19:56	0.0	0.0	0.0	0.0	0.0
Amritsar	400	415	6:01	398	10:45	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	408	3:09	395	11:23	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	411	6:00	392	13:40	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	6:01	745	19:17	0.0	0.0	0.0	0.0	0.0
Balia	765	786	6:03	746	19:16	0.0	0.0	0.0	0.0	0.0
Moga	765	791	6:01	754	14:24	0.0	0.0	0.0	0.0	0.0
Agra	765	798	6:02	752	14:23	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	802	6:02	758	14:24	0.0	0.0	0.6	0.0	0.6
Unnao	765	773	6:03	737	19:16	0.0	9.2	0.0	0.0	0.0
Lucknow	765	790	6:04	750	19:18	0.0	0.0	0.0	0.0	0.0
Meerut	765	781	0:00	781	0:00	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	796	6:02	751	14:26	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	792	6:02	752	19:17	0.0	0.0	0.0	0.0	0.0
Anta	765	794	6:01	765	14:36	0.0	0.0	0.0	0.0	0.0
Phagi	765	804	6:01	766	14:18	0.0	0.0	0.7	0.0	0.7

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	454.43	74.65	477.34	401.01	683.34	669.64
Pong	426.72	384.05	390.98	67.89	394.68	121.45	895.32	48.90
Tehri	829.79	740.04	745.00	23.98	746.90	33.59	355.65	166.00
Koteswar	612.50	598.50	610.78	4.95	611.03	5.20	166.00	166.20
Chamera-I	760.00	748.75	755.27	0.00	0.00	0.00	835.51	353.60
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	504.48	3.11	513.78	6.97	187.82	139.34

\* 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	1726	0	0	1429	0	0	37.94	0.00	37.94
Delhi	1189	-638	0	1101	-651	0	29.08	-12.20	16.88
Haryana	1797	-235	0	1580	81	0	33.18	0.75	33.93
HP	-1506	129	0	-1404	-272	0	-31.36	-0.90	-32.26
J&K	-1092	276	0	-1092	568	0	-26.22	13.14	-13.08
CHD	0	0	0	0	-30	0	0.00	0.02	0.02
Rajasthan	-52	-75	0	-52	-674	0	-1.25	-5.74	-6.99
UP	2182	0	0	1294	0	0	43.19	0.00	43.19
Uttarakhand	-143	241	0	-143	270	0	-4.14	4.76	0.62
<b>Total</b>	<b>4101</b>	<b>-302</b>	<b>0</b>	<b>2712</b>	<b>-709</b>	<b>0</b>	<b>80.42</b>	<b>-0.17</b>	<b>80.25</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1726	1429	0	0	0	0
Delhi	1306	1090	25	-988	0	0
Haryana	1797	1136	120	-306	0	0
HP	-1178	-1506	274	-272	0	0
J&K	-1092	-1092	770	197	0	0
CHD	0	0	20	-30	0	0
Rajasthan	-52	-52	75	-865	0	0
UP	2195	1222	0	0	0	0
Uttarakhand	-143	-202	280	10	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	0.69%
ER	0.00%
Simultaneous	0.35%

(ii)%age of times ATC violated on the inter-regional corridors

WR	9.72%
ER	0.00%
Simultaneous	8.68%

(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	1	21
Haryana	1	23
Rajasthan	2	17
Delhi	4	35
UP	1	14
Uttarakhand	3	16
HP	4	28
J & K	4	42
Chandigarh	3	36

**XIII. System Constraints:**

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

**XV. Weather Conditions For 29.06.2018 :**

**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 : 29.06.2018

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER