

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 14.09.2017

Date of Reporting : 15.09.2017



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
52522	4206	56727	50.00	49556	2133	51689	49.98	1198.53	45.15

\* 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 MU's:

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	Renewable/others \$	Total					
Punjab	108.35	16.80	0.23	125.38	84.95	84.66	-0.29	210.04	0.00
Haryana	62.76	0.85	0.00	63.61	121.19	122.86	1.66	186.47	0.38
Rajasthan	110.26	1.63	9.89	121.78	73.47	75.96	2.49	197.74	5.67
Delhi	29.38		0.00	29.38	87.69	87.91	0.22	117.28	0.00
UP	156.10	23.20	0.00	179.30	190.00	193.08	3.08	372.38	29.66
Uttarakhand	6.70	21.00	0.60	28.30	13.21	13.87	0.66	42.17	0.00
HP		11.69	7.01	18.70	6.72	8.41	1.69	27.11	0.00
J & K		14.42	0.00	14.42	21.16	25.32	4.16	39.74	9.44
Chandigarh				0.00	5.83	5.61	-0.22	5.61	0.00
<b>Total</b>	<b>473.55</b>	<b>89.58</b>	<b>17.73</b>	<b>580.85</b>	<b>604.22</b>	<b>617.68</b>	<b>13.46</b>	<b>1198.53</b>	<b>45.15</b>

\* Shortage furnished by the respective constituent \$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MW's:

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	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	9370	0	-117	101	7881	0	85	-129	9381	21	0
Haryana	8214	650	8	873	7595	238	246	905	8642	21	263
Rajasthan	8747	149	232	-49	8569	0	139	-24	8966	1	0
Delhi	5111	0	-48	453	4875	0	151	420	5637	24	0
UP	15579	2900	-237	977	16605	1680	450	2908	16605	3	1680
Uttarakhand	1954	0	-21	-58	1613	0	16	-128	2015	19	0
HP	1270	0	-43	-1035	1002	0	43	-1260	1356	8	0
J&K	2026	507	-3	-479	1222	216	129	-558	2026	20	507
Chandigarh	252	0	-58	0	194	0	-13	0	280	16	0
<b>Total</b>	<b>52522</b>	<b>4206</b>	<b>-287</b>	<b>783</b>	<b>49556</b>	<b>2133</b>	<b>1246</b>	<b>2135</b>	<b>53496</b>	<b>21</b>	<b>4202</b>

\* STOA figures are at seller's boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

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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	1720	1861	1900	41.96	1748	41.23		0.73
Rihand I STPS (2*500)	1000	923	1027	1005	21.69	904	22.14		-0.45
Rihand II STPS (2*500)	1000	943	1015	988	23.04	960	22.62		0.41
Rihand III STPS (2*500)	1000	943	1007	984	22.75	948	22.59		0.17
Dadri I STPS (4*210)	840	416	0	0	9.32	388	9.75		-0.43
Dadri II STPS (2*490)	980	663	0	0	15.37	640	15.86		-0.50
Unchahar I TPS (2*210)	420	382	400	392	8.83	368	9.16		-0.33
Unchahar II TPS (2*210)	420	382	418	406	8.98	374	9.14		-0.17
Unchahar III TPS (1*210)	210	191	206	212	4.44	185	4.57		-0.13
Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00		0.00
ISTPP (Jhajjar) (3*500)	1500	723	881	656	16.75	698	17.20		-0.46
Dadri GPS (4*130,19+2*154.51)	830	553	494	547	11.08	462	11.51		-0.43
Anta GPS (3*88.71+1*153.2)	419	385	374	379	8.81	367	8.74		0.07
Auraiya GPS (4*111.19+2*109.30)	663	238	214	179	4.89	204	4.97		-0.08
Dadri Solar(5)	5	1	0	0	0.01	1	0.02		0.00
Unchahar Solar(10)	10	2	0	0	0.04	2	0.05		-0.01
Singrauli Solar(15)	15	3	0	0	0.06	3	0.07		0.00
KHEP(4*200)	800	792	870	456	9.04	377	8.25		-0.79
<b>Sub Total (A)</b>	<b>12612</b>	<b>9258</b>	<b>8767</b>	<b>8104</b>	<b>207</b>	<b>8627</b>	<b>208</b>		<b>-0.83</b>
<b>B. NPC</b>									
NAPS (2*220)	440	190	209	212	4.41	184	4.56		-0.15
RAPS- B (2*220)	440	385	429	431	9.27	386	9.15		0.12
RAPS- C (2*220)	440	430	450	450	9.69	404	10.32		-0.63
<b>Sub Total (B)</b>	<b>1320</b>	<b>1005</b>	<b>1088</b>	<b>1093</b>	<b>23.37</b>	<b>974</b>	<b>24.03</b>		<b>-0.66</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	534	549	178	5.44	227	5.25		0.19
Chamera II HPS (3*100)	300	181	303	206	4.28	178	4.19		0.09
Chamera III HPS (3*77)	231	126	230	155	3.16	132	3.03		0.12
Bairasuli HPS(3*60)	180	155	123	62	1.65	69	1.45		0.20
Salal-HPS (6*115)	690	350	566	264	9.06	378	8.40		0.67
Tanakpur-HPS (3*31.4)	94	91	95	96	2.30	96	2.17		0.13
Uri-I HPS (4*120)	480	272	409	259	6.89	287	6.52		0.37
Uri-II HPS (4*60)	240	153	245	159	3.74	156	3.66		0.08
Dhauliganga-HPS (4*70)	280	197	284	142	4.83	201	4.73		0.11
Dulhasti-HPS (3*130)	390	387	402	402	9.47	394	9.28		0.19
Sewa-II HPS (3*40)	120	119	117	0	0.73	31	0.70		0.03
Parbati 3 (4*130)	520	182	518	0	1.93	80	1.86		0.08
<b>Sub Total (C)</b>	<b>4065</b>	<b>2745</b>	<b>3841</b>	<b>1922</b>	<b>53</b>	<b>2228</b>	<b>51</b>		<b>2.25</b>
<b>D.SJVNL</b>									
NJPC (6*250)	1500	1482	1488	952	24.04	1002	23.41		0.63
Rampur HEP (6*68.67)	412	408	405	299	6.88	286	6.52		0.36
<b>Sub Total (D)</b>	<b>1912</b>	<b>1890</b>	<b>1893</b>	<b>1251</b>	<b>30.92</b>	<b>1288</b>	<b>29.93</b>		<b>0.99</b>
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	988	1008	0	10.33	431	10.10		0.23
Koteshwar HPS (4*100)	400	143	397	92	3.53	147	3.44		0.09
<b>Sub Total (E)</b>	<b>1400</b>	<b>1131</b>	<b>1405</b>	<b>92</b>	<b>13.86</b>	<b>577</b>	<b>13.54</b>		<b>0.32</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	1071	1337	932	25.67	1069	25.70		-0.04
Dehar HPS (6*165)	990	467	825	330	11.36	473	11.20		0.16
Pong HPS (6*66)	396	237	396	66	5.77	240	5.69		0.08
<b>Sub Total (F)</b>	<b>2765</b>	<b>1775</b>	<b>2558</b>	<b>1328</b>	<b>42.79</b>	<b>1783</b>	<b>42.59</b>		<b>0.20</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	84	60	1.58	66	1.58		0.00
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1000	380	13.80	575	13.28		0.52
Malana Stg-II HPS (2*50)	100	0	111	40	1.05	44	0.98		0.07
Shree Cement TPS (2*150)	300	0	149	144	3.55	148	3.56		-0.01
Budhil HPS(IPP) (2*35)	70	0	35	44	0.91	38	0.98		-0.07
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1379</b>	<b>669</b>	<b>20.89</b>	<b>870</b>	<b>20.38</b>		<b>0.51</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25737</b>	<b>17804</b>	<b>20931</b>	<b>14459</b>	<b>392.34</b>	<b>16348</b>	<b>389.56</b>		<b>2.78</b>

I. State Entities

Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
<b>Punjab</b>					
Guru Gobind Singh TPS (Ropar) (6*210)	1260	630	480	12.42	518
Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	234	200	4.85	202
Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	712	588	15.21	634
Goindwal(GVK) (2*270)	540	491	371	11.08	462
Rajpura (2*700)	1400	1320	1320	31.22	1301
Talwandi Saboo (3*660)	1980	1400	1300	33.57	1399

	<b>Thermal (Total)</b>	<b>6560</b>	<b>4787</b>	<b>4259</b>	108.35	<b>4515</b>	
	Total Hydro	1000	734	648	16.80	700	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	0.15	6	
	Solar	859	0	0	0.08	3	
	<b>Renewable(Total)</b>	<b>1162</b>	<b>0</b>	<b>0</b>	<b>0.23</b>	<b>10</b>	
	<b>Total Punjab</b>	<b>8722</b>	<b>5521</b>	<b>4907</b>	<b>125.38</b>	<b>5224</b>	
Haryana	Panipat TPS (2*210+2*250)	920	409	381	10.00	417	
	DCRTPP (Yamuna nagar) (2*300)	600	523	551	12.69	529	
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	182	183	4.36	182	
	RGTPP (khedar) (IPP) (2*600)	1200	1052	577	21.37	890	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP) (2*660)	1320	597	618	14.34	598	
	<b>Thermal (Total)</b>	<b>4497</b>	<b>2763</b>	<b>2310</b>	<b>62.76</b>	<b>2615</b>	
	Total Hydro	62	34	34	0.85	35	
	Wind Power	0	0	0	0.00	0	
	Biomass	106	0	0	0.00	0	
	Solar	50	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>156</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
	<b>Total Haryana</b>	<b>4715</b>	<b>2797</b>	<b>2344</b>	<b>63.61</b>	<b>2650</b>	
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	727	729	18.02	751	
	suratgarh TPS (6*250)	1500	727	728	17.55	731	
	Chabra TPS (4*250)	1000	480	406	10.93	455	
	Chabra TPS (1*660)	660	0	0	0.00	0	
	Dholpur GPS (3*110)	330	87	87	2.16	90	
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	185	185	4.57	190	
	RAPS A (NPC) (1*100+1*200)	300	168	171	4.16	173	
	Barsingar (NLC) (2*125)	250	113	113	2.63	109	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	708	710	16.94	706	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	525	1124	19.35	806	
	Kawai(Adani) (2*660)	1320	565	613	13.96	582	
	<b>Thermal (Total)</b>	<b>9536</b>	<b>4285</b>	<b>4866</b>	<b>110.26</b>	<b>4594</b>	
	Total Hydro	550	77	44	1.63	68	
	Wind power	4292	477	380	6.66	277	
	Biomass	102	15	15	0.37	15	
	Solar	1995	0	0	2.87	120	
	Renewable/Others (Total)	6389	492	395	9.89	412	
	<b>Total Rajasthan</b>	<b>16475</b>	<b>4854</b>	<b>5305</b>	<b>121.78</b>	<b>5074</b>	
UP	Anpara TPS (3*210+2*500)	1630	1188	1193	27.38	1141	
	Obra TPS (2*50+2*94+5*200)	1194	417	320	9.60	400	
	Paricha TPS (2*110+2*220+2*250)	1160	557	613	14.17	591	
	Panki TPS (2*105)	210	117	126	2.82	118	
	Harduaganj TPS (1*60+1*105+2*250)	665	386	389	8.74	364	
	Tanda TPS (NTPC) (4*110)	440	384	385	9.38	391	
	Roza TPS (IPP) (4*300)	1200	1074	769	20.81	867	
	Anpara-C (IPP) (2*600)	1200	476	514	11.89	496	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	421	427	10.54	439	
	Lalitpur TPS(3*660)	1980	1294	863	23.30	971	
	Bara(2*660)	1320	596	1207	16.26	678	
	<b>Thermal (Total)</b>	<b>12449</b>	<b>6910</b>	<b>6806</b>	<b>154.90</b>	<b>6454</b>	
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.47	436	
	Alaknanda(4*82.5)	330	255	258	6.65	277	
	Other Hydro	527	295	248	6.08	253	
	Cogeneration	981	50	50	1.20	50	
	Wind Power	0	0	0	0.00	0	
	Biomass	26	0	0	0.00	0	
	Solar	102	0	0	0.00	0	
	<b>Renewable(Total)</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
	<b>Total UP</b>	<b>14855</b>	<b>7945</b>	<b>7797</b>	<b>179.30</b>	<b>7471</b>	
	Uttarakhand	Other Hydro	1250	909	841	21.00	875
		Total Gas	450	277	284	6.70	279
		Wind Power	0	0	0	0.00	0
		Biomass	127	0	0	0.00	0
		Solar	100	0	0	0.60	25
Small Hydro (< 25 MW)		180	0	0	0.00	0	
<b>Renewable(Total)</b>		<b>407</b>	<b>0</b>	<b>0</b>	<b>0.60</b>	<b>25</b>	
<b>Total Uttarakhand</b>		<b>2107</b>	<b>1186</b>	<b>1125</b>	<b>28.30</b>	<b>1179</b>	
Delhi	Raighat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	211	149	4.63	193	
	Pragati Gas Turbine (2x104+ 1x122)	330	302	306	7.31	304	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	499	456	11.45	477	
	Badarpur TPS (NTPC) (3*95+2*210)	705	349	189	5.99	250	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>1360</b>	<b>1100</b>	<b>29.38</b>	<b>1224</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>1360</b>	<b>1100</b>	<b>29.38</b>	<b>1224</b>		
HP	Baspa HPS (IPP) (3*100)	300	84	242	4.34	181	
	Malana HPS (IPP) (2*43)	86	45	41	0.99	41	
	Other Hydro (>25MW)	372	284	261	6.36	265	
	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	289	261	7.01	292	
	<b>Renewable(Total)</b>	<b>486</b>	<b>289</b>	<b>261</b>	<b>7.01</b>	<b>292</b>	
<b>Total HP</b>	<b>1244</b>	<b>702</b>	<b>805</b>	<b>18.70</b>	<b>779</b>		
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	441	441	12.07	503	
	Other Hydro/IPP(including 98 MW Small Hydro)	308	140	70	2.34	98	
	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	
	<b>Renewable(Total)</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	
<b>Total J &amp; K</b>	<b>1398</b>	<b>581</b>	<b>511</b>	<b>14</b>	<b>601</b>		
<b>Total State Control Area Generation</b>		<b>52451</b>	<b>24947</b>	<b>23894</b>	<b>580.85</b>	<b>24202</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>8252</b>	<b>10934.49</b>	<b>244.62</b>	<b>10193</b>	
<b>Total Regional Availability(Gross)</b>		<b>78188</b>	<b>54130</b>	<b>49288</b>	<b>1217.82</b>	<b>50742</b>	

**IV. Total Hydro Generation:**

Regional Entities Hydro	12234	11762	5530	167.42	6938
State Control Area Hydro	7468	4299	4108	89.58	4329
<b>Total Regional Hydro</b>	<b>19702</b>	<b>16061</b>	<b>9638</b>	<b>257.00</b>	<b>11267</b>

**V. Total Renewable Generation:**

Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	8844	781	656	17.73	739
<b>Total Regional Renewable</b>	<b>8874</b>	<b>781</b>	<b>656</b>	<b>17.84</b>	<b>743</b>

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-500	-250	0	500	0.00	7.12	-7.12
765 KV Gwalior-Agra (D/C)	2093	2500	2985	0	56.63	0.00	56.63
400 KV Zerda-Kankroli	-122	5	34	181	0.00	2.49	-2.49
400 KV Zerda-Bhinmal	-63	-30	110	184	0.00	0.33	-0.33
220 KV Auraiya-Malanpur	-105	-78	0	165	0.00	1.70	-1.70
220 KV Badod-Kota/Morak	-32	5	71	62	0.02	0.00	0.02
Mundra-Mohindergarh(HVDC Bipole)	2382	1499	2507	0	52.18	0.00	52.18
400 KV RAPP- Sujalpur	55	256	256	0	4.54	0.00	4.54
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	772	913	1094	0	19.32	0.00	19.32
+/- 800 kV HVDC Champa-Kurushetra	1650	3000	3000	0	49.67	0	49.67
<b>Sub Total WR</b>	<b>6130</b>	<b>7820</b>			<b>182.36</b>	<b>11.64</b>	<b>170.73</b>
400 kV Sasaram - Varanasi	173	160	173	0	3.92	0.00	3.92
400 kV Sasaram - Allahabad	16	33	55	0	0.76	0.00	0.76
400 KV MZP- GKP (D/C)	130	646	755	0	12.23	0.00	12.23
400 KV Patna-Balia(D/C) X 2	131	797	851	0	17.17	0.00	17.17
400 KV B Sharif-Balia (D/C)	61	255	262	0	4.31	0.00	4.31
765 KV Gaya-Balia	226	301	410	0	6.63	0.00	6.63
765 KV Gaya-Varanasi (D/C)	123	324	324	0	4.96	0.00	4.96
220 KV Pusaui-Sahupuri	239	224	258	0	5.31	0.00	5.31
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.48	0.00	0.48
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-276	-160	0	320	0.00	3.31	-3.31
400 KV Barh -GKP (D/C)	-240	-212	0	242	0.00	4.50	-4.50
400 kV B Sharif - Varanasi (D/C)	139	-54	179	111	0.00	0.32	-0.32
+/- 800 KV HVDC Alipurduar-Agra	700	300	700	0	13.14	0.00	13.14
<b>Sub Total ER</b>	<b>1422</b>	<b>2614</b>			<b>68.89</b>	<b>8.14</b>	<b>60.76</b>
+/- 800 KV HVDC BiswanathChariali-Agra	700	500	700	0.00	13.14	0.00	13.14
<b>Sub Total NER</b>	<b>700</b>	<b>500</b>			<b>13.14</b>	<b>0.00</b>	<b>13.14</b>
<b>Total IR Exch</b>	<b>8252</b>	<b>10934</b>			<b>264.40</b>	<b>19.77</b>	<b>244.62</b>

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

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
46.01	3.27	49.29	12.82	8.53	-6.17	16.41	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
55.94	184.25	240.18	73.90	170.73	244.62	17.96	-13.52	4.44

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-23	-13	0	-26	0	0	0.44

**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	0.29	19.73	73.51	75.96	4.06	0.25	0.00	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
50.15	6.03	49.76	5.13	49.96	0.052	0.059	50.05	49.81	24.04

**VIII(A). Voltage profile 400 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	402	13:06	394	0:32	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	14:24	392	3:37	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	409	7:55	396	10:16	0.0	0.0	0.0	0.0	0.0
Kanpur	400	414	7:54	402	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	408	3:57	394	14:12	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	411	4:02	394	14:14	0.0	0.0	0.0	0.0	0.0
Bawana	400	406	4:01	286	18:22	0.1	0.1	0.0	0.0	0.1
Bassi	400	420	4:02	403	0:00	0.0	0.0	0.0	0.0	0.0
Hissar	400	409	4:02	392	19:16	0.0	0.0	0.0	0.0	0.0
Moga	400	411	4:01	395	19:17	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	412	4:02	394	20:21	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	414	3:57	398	10:17	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	416	3:58	396	19:20	0.0	0.0	0.0	0.0	0.0
Wagoora	400	411	4:01	377	19:24	5.5	45.1	0.0	0.0	5.5
Amritsar	400	415	4:01	398	10:16	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	398	0:00	398	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	0	0:00	0	0:00	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 Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	774	7:54	749	10:17	0.0	0.0	0.0	0.0	0.0
Balia	765	790	7:55	763	3:30	0.0	0.0	0.0	0.0	0.0
Moga	765	786	4:01	758	10:15	0.0	0.0	0.0	0.0	0.0
Agra	765	788	4:02	762	10:16	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	791	4:00	766	10:14	0.0	0.0	0.0	0.0	0.0

Unnao	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Lucknow	765	789	7:54	763	3:33	0.0	0.0	0.0	0.0
Meerut	765	793	4:01	760	10:19	0.0	0.0	0.0	0.0
Jhatikara	765	790	4:01	763	10:17	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	789	17:48	759	10:18	0.0	0.0	0.0	0.0
Anta	765	796	18:04	764	10:19	0.0	0.0	0.0	0.0
Phagi	765	790	3:58	768	0:00	0.0	0.0	0.0	0.0

Note : \*0" in Max / Min Col -> 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	509.42	1515.08	503.13	1232.31	559.34	785.28
Pong	426.72	384.05	421.46	961.02	417.89	794.52	233.44	326.12
Tehri	829.79	740.04	823.80	1083.79	824.45	1096.29	174.09	224.00
Koteswar	612.50	598.50	610.94	5.20	608.84	3.98	224.00	232.51
Chamera-I	760.00	748.75	751.61	0.00	0.00	0.00	157.41	147.73
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	521.57	7.21	520.81	6.00	172.00	280.15

\* 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	931	-1060	0	605	-505	0	20.86	-15.14	5.73
Delhi	572	-151	0	468	-15	0	11.18	-0.80	10.39
Haryana	896	9	0	866	7	0	16.69	-1.08	15.61
HP	-1258	-1	0	-1033	-1	0	-26.19	-0.03	-26.22
J&K	-502	-56	0	-502	23	0	-12.05	2.54	-9.51
CHD	0	0	0	0	0	0	0.00	0.40	0.40
Rajasthan	-8	-17	0	-8	-42	0	-0.18	-0.56	-0.74
UP	967	1941	0	999	-22	0	17.23	33.52	50.75
Uttarakhand	-48	-80	0	-62	4	0	-1.38	-1.23	-2.61
Total	1550	584	0	1333	-550	0	26.16	17.63	43.79

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1134	605	-252	-1161	0	0
Delhi	832	238	206	-303	0	0
Haryana	896	436	10	-431	0	0
HP	-709	-1297	-1	-1	0	0
J&K	-502	-502	494	-308	0	0
CHD	0	0	64	-20	0	0
Rajasthan	-8	-8	111	-42	0	0
UP	1164	285	2334	-22	0	0
Uttarakhand	-47	-63	4	-243	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	6.94%

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

WR	5.56%
ER	0.00%
Simultaneous	30.21%

(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	10
Haryana	0	8
Rajasthan	0	12
Delhi	1	19
UP	2	19
Uttarakhand	1	17
HP	6	70
J & K	4	36
Chandigarh	6	38

**XIII. System Constraints:**

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

**XV. Weather Conditions For 14.09.2017 :**

**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 : 14.09.2017**

**पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**