

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 09.04.2017

Date of Reporting : 10.04.2017



### 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
40490	535	41025	49.99	36256	469	36724	49.96	819.52	13.26

\* 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	Renewable/others \$	Total					
Punjab	32.87	2.83	0.27	35.97	60.14	60.04	-0.10	96.01	0.00
Haryana	10.78	0.63	0.00	11.41	88.84	86.98	-1.86	98.39	0.00
Rajasthan	86.00	0.49	16.30	102.79	56.98	59.28	2.29	162.07	0.00
Delhi	14.31		0.00	14.31	57.70	55.15	-2.56	69.45	0.33
UP	176.72	5.10	0.00	181.82	108.25	104.37	-3.88	286.19	0.00
Uttarakhand		7.80	0.00	14.58	15.37	15.68	0.31	30.26	0.00
HP		15.45	5.04	15.45	9.87	11.20	1.33	26.65	1.10
J & K		13.62	0.00	13.62	26.45	33.69	7.25	47.31	11.83
Chandigarh				0.00	3.61	3.19	-0.42	3.19	0.00
<b>Total</b>	<b>320.68</b>	<b>45.92</b>	<b>21.61</b>	<b>389.94</b>	<b>427.21</b>	<b>429.58</b>	<b>2.37</b>	<b>819.52</b>	<b>13.26</b>

\* Shortage furnished by the respective constituent's 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	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	4528	0	192	-99	4268	0	69	-99	4716	7:00	0
Haryana	5706	0	31	207	4588	0	-134	300	5706	20:00	0
Rajasthan	7145	0	174	416	6539	0	3	452	7556	8:00	0
Delhi	3199	0	-11	-339	2842	0	8	-421	3266	21:00	0
UP	15069	0	225	1454	13958	0	50	6	15629	21:00	0
Uttarakhand	1560	0	119	84	1258	0	30	157	1560	20:00	0
HP	975	0	-66	-835	812	0	90	-23	1164	8:00	0
J&K	2142	535	415	-313	1874	469	303	-273	2176	7:00	544
Chandigarh	165	0	-4	-20	118	0	-12	0	165	20:00	0
<b>Total</b>	<b>40490</b>	<b>535</b>	<b>1076</b>	<b>553</b>	<b>36256</b>	<b>469</b>	<b>407</b>	<b>97</b>	<b>40898</b>	<b>21:00</b>	<b>503</b>

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

### III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1650	1780	1459	34.91	1455	34.66	0.25
Rihand I STPS (2*500)	1000	934	952	965	18.95	790	18.76	0.19
Rihand II STPS (2*500)	1000	477	505	467	9.75	406	9.57	0.18
Rihand III STPS (2*500)	1000	973	1001	857	19.16	798	18.93	0.23
Dadri I STPS (4*210)	840	815	464	462	10.62	442	10.99	-0.37
Dadri II STPS (2*490)	980	980	697	818	16.73	697	17.72	-0.99
Unchahar I TPS (2*210)	420	403	283	377	6.82	284	7.35	-0.53
Unchahar II TPS (2*210)	420	405	245	315	6.37	265	7.28	-0.91
Unchahar III TPS (1*210)	210	203	140	151	3.26	136	3.53	-0.27
Unchahar IV TPS (1*660)	660		0	0	0.00	0	0.00	0.00
ISTPP (Jhajjihar) (3*500)	1500	1120	371	641	11.51	480	11.85	-0.35
Dadri GPS (4*130.19+2*154.51)	830	595	145	158	3.74	156	3.80	-0.06
Anta GPS (3*88.71+1*153.2)	419	378	249	320	6.78	283	6.27	0.52
Auraiya GPS (4*111.19+2*109.30)	663	639	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	1	0	0	0.03	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.05	2	0.04	0.01
Singrauli Solar(15)	15	2	0	0	0.01	0	0.05	-0.04
KHEP(4*200)	800	872	872	655	4.17	174	4.00	0.17
<b>Sub Total (A)</b>	<b>12772</b>	<b>10450</b>	<b>7704</b>	<b>7645</b>	<b>153</b>	<b>6369</b>	<b>155</b>	<b>-1.97</b>
<b>B. NPC</b>								
NAPS (2*220)	440	216	218	221	4.48	187	4.71	-0.23
RAPS- B (2*220)	440	367	412	413	8.92	372	8.81	0.11
RAPS- C (2*220)	440	210	232	236	4.94	206	5.04	-0.10
<b>Sub Total (B)</b>	<b>1320</b>	<b>793</b>	<b>862</b>	<b>870</b>	<b>18.33</b>	<b>764</b>	<b>18.56</b>	<b>-0.22</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	541	551	547	13.16	548	12.96	0.20
Chamera II HPS (3*100)	300	301	309	30	3.98	166	3.77	0.21
Chamera III HPS (3*77)	231	231	233	0	2.61	109	2.56	0.06
Bairasuli HPS(3*60)	180	179	184	183	4.31	180	4.23	0.09
Satal-HPS (6*115)	690	418	540	552	11.10	462	10.03	1.07
Tanakpur-HPS (3*31.4)	94	27	16	31	0.70	29	0.64	0.06
Uri-I HPS (4*120)	480	465	480	476	11.37	474	11.16	0.21
Uri-II HPS (4*60)	240	237	241	239	5.72	238	5.69	0.02
Dhauliganga-HPS (4*70)	280	280	286	0	1.40	58	1.37	0.03
Dulhasti-HPS (3*130)	390	387	404	0	6.20	259	6.00	0.20
Sewa-II HPS (3*40)	120	124	130	130	3.11	130	2.98	0.14
Parbati 3 (4*130)	520	260	264	0	0.68	28	0.65	0.03
<b>Sub Total (C)</b>	<b>4065</b>	<b>3449</b>	<b>3639</b>	<b>2188</b>	<b>64</b>	<b>2681</b>	<b>62</b>	<b>2.33</b>
<b>D.SJVNL</b>								
NJPC (6*250)	1500	1605	1606	0	10.00	417	10.02	-0.02
Rampur HEP (6*68.67)	412	442	445	0	2.80	117	2.79	0.01
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2051</b>	<b>0</b>	<b>12.80</b>	<b>533</b>	<b>12.82</b>	<b>-0.02</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	490	488	0	5.22	217	5.30	-0.08
Koteshwar HPS (4*100)	400	104	201	94	2.52	105	2.50	0.02
<b>Sub Total (E)</b>	<b>1400</b>	<b>594</b>	<b>689</b>	<b>94</b>	<b>7.74</b>	<b>322</b>	<b>7.80</b>	<b>-0.06</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	284	290	289	6.83	284	6.82	0.01
Dehar HPS (6*165)	990	293	660	330	7.24	302	7.04	0.20
Pong HPS (6*66)	396	24	165	0	0.56	23	0.58	-0.02
<b>Sub Total (F)</b>	<b>2765</b>	<b>601</b>	<b>1115</b>	<b>619</b>	<b>14.63</b>	<b>610</b>	<b>14.43</b>	<b>0.20</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	91	0	0.75	31	0.74	0.01
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	700	0	5.04	210	5.00	0.04
Malana Stg-II HPS (2*50)	100	0	0	0	0.47	19	0.47	0.00
Shree Cement TPS (2*150)	300	0	130	94	2.42	101	2.39	0.03
Budhil HPS(IPP) (2*35)	70	0	0	0	0.00	0	0.61	-0.61
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>922</b>	<b>94</b>	<b>8.68</b>	<b>362</b>	<b>9.20</b>	<b>-0.53</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25897</b>	<b>17934</b>	<b>16982</b>	<b>11510</b>	<b>279.37</b>	<b>11641</b>	<b>279.65</b>	<b>-0.28</b>
<b>I. State Entities</b>								
	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	0.00	0		
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0		
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	0	0	0.00	0		

	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	660	660	13.23	551
	Talwandi Saboo (3*660)	1980	616	883	19.64	818
	<b>Thermal (Total)</b>	<b>6560</b>	<b>1276</b>	<b>1543</b>	<b>32.87</b>	<b>1370</b>
	Total Hydro	1000	203	112	2.83	118
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.19	8
	Solar	560	0	0	0.08	3
	<b>Renewable(Total)</b>	<b>848</b>	<b>0</b>	<b>0</b>	<b>0.27</b>	<b>11</b>
	<b>Total Punjab</b>	<b>8408</b>	<b>1479</b>	<b>1655</b>	<b>35.97</b>	<b>1499</b>
Haryana	Panipat TPS (2*210+2*250)	920	210	209	5.26	219
	DCRTPP (Yamuna nagar) (2*300)	600	224	220	5.52	230
	Faridabad GPS (NTPC)(2*137.75+1*1156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>4497</b>	<b>434</b>	<b>429</b>	<b>10.78</b>	<b>449</b>
	Total Hydro	62	26	31	0.63	26
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
	<b>Total Haryana</b>	<b>4599</b>	<b>460</b>	<b>460</b>	<b>11.41</b>	<b>476</b>
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	317	307	8.18
suratgarh TPS (6*250)		1500	182	172	4.61	192
Chabra TPS (4*250)		1000	1062	1349	18.54	772
Chabra TPS (1*660)		660	0	0	11.04	460
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	177	195	4.98	207
RAPS A (NPC) (1*100+1*200)		300	190	194	4.23	176
Barsingsar (NLC) (2*125)		250	155	95	2.78	116
Giral LTPS (2*125)		250	0	0	0.00	0
Rajwest LTPS (IPP) (8*135)		1080	454	442	11.17	466
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	416	217	9.09	379
Kawai(Adani) (2*660)		1320	450	439	11.39	474
<b>Thermal (Total)</b>		<b>9536</b>	<b>3403</b>	<b>3410</b>	<b>86.00</b>	<b>3583</b>
Total Hydro		550	20	21	0.49	20
Wind power		4017	38	1289	12.41	517
Biomass		99	21	21	0.50	21
Solar		1295	0	0	3.40	142
Renewable/Others (Total)		5411	59	1310	16.30	679
<b>Total Rajasthan</b>		<b>15497</b>	<b>3482</b>	<b>4741</b>	<b>102.79</b>	<b>4283</b>
UP	Anpara TPS (3*210+2*500)	1630	1063	1075	22.40	933
	Obra TPS (2*50+2*94+5*200)	1194	593	637	13.80	575
	Paricha TPS (2*110+2*220+2*250)	1160	729	921	17.10	713
	Panki TPS (2*105)	210	135	149	3.30	138
	Harduaganj TPS (1*60+1*105+2*250)	665	429	534	10.50	438
	Tanda TPS (NTPC) (4*110)	440	250	292	5.72	238
	Roza TPS (IPP) (4*300)	1200	757	842	17.40	725
	Anpara-C (IPP) (2*600)	1200	630	635	15.10	629
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	283	404	7.10	296
	Anpara-D(2*500)	1000	823	824	17.20	717
	Lalitpur TPS(3*660)	1980	720	1185	21.40	892
	Bara(2*660)	1320	52	572	11.30	471
	<b>Thermal (Total)</b>	<b>12449</b>	<b>6464</b>	<b>8070</b>	<b>162.32</b>	<b>6763</b>
	Vishnuparyag HPS (IPP)(4*110)	440	118	110	2.20	92
	Alaknanda(4*82.5)	330	85	84	1.70	71
	Other Hydro	527	153	99	1.20	50
	Cogeneration	981	600	600	14.40	600
	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>7420</b>	<b>8963</b>	<b>181.82</b>	<b>7576</b>
	Uttarakhand	Other Hydro	1250	389	262	7.80
Total Gas		225	259	276	6.22	259
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.56	23
Small Hydro (< 25 MW)		180	0	0	0.00	0
<b>Renewable(Total)</b>		<b>327</b>	<b>0</b>	<b>0</b>	<b>0.56</b>	<b>23</b>
<b>Total Uttarakhand</b>	<b>1802</b>	<b>648</b>	<b>538</b>	<b>14.58</b>	<b>607</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	33	35	0.89	37
	Pragati Gas Turbine (2x104+ 1x122)	330	153	155	3.75	156
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	250	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	163	165	3.65	152
	<b>Thermal (Total)</b>	<b>2917</b>	<b>599</b>	<b>605</b>	<b>14.31</b>	<b>596</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>599</b>	<b>605</b>	<b>14.31</b>	<b>596</b>	
HP	Baspa HPS (IPP) (3*100)	300	30	30	0.94	39
	Malana HPS (IPP) (2*43)	86	46	0	0.45	19
	Other Hydro (>25MW)	372	446	346	9.02	376
	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	228	204	5.04	210
	<b>Renewable(Total)</b>	<b>486</b>	<b>228</b>	<b>204</b>	<b>5.04</b>	<b>210</b>
	<b>Total HP</b>	<b>1244</b>	<b>751</b>	<b>581</b>	<b>15.45</b>	<b>644</b>
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	450	444	10.75	448
	Other Hydro/IPP(including 98 MW Small Hydro)	308	136	120	2.86	119
	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	586	564	14	567
Total State Control Area Generation	50738	15425	18107	389.94	16247
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		8649	7468	155.54	6481
Total Regional Availability(Gross)	76635	41055	37085	824.85	34369

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9157	3556	109.94	4581
State Control Area Hydro	7163	2590	2140	45.92	2195
Total Regional Hydro	19397	11747	5696	155.86	6776

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.08	4
State Control Area Renewable	7356	287	1514	22.17	924
Total Regional Renewable	7386	287	1514	22.25	927

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)	-300	-500	0	500	0.00	10.23	-10.23
765 KV Gwalior-Agra (D/C)	2714	2410	2714	0	47.59	0.00	47.59
400 KV Zerda-Kankroli	123	-109	123	179	0.00	1.61	-1.61
400 KV Zerda-Bhinmal	127	-129	239	183	0.00	0.27	-0.27
220 KV Auraiya-Malanpur	-35	-13	0	42	0.00	0.30	-0.30
220 KV Badod-Kota/Morak	87	-12	50	41	0.05	0.00	0.05
Mundra-Mohinderghar(HVDC Bipole)	1966	1798	2004	0	32.17	0.00	32.17
400 KV RAPP-Subalpur	410	63	427	0	4.97	0.00	4.97
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1475	1211	739	0	27.29	0.00	27.29
+/- 800 kV HVDC Champa-Kurushetra	200	600	1500	0	13.14	0	13.14
<b>Sub Total WR</b>	<b>6767</b>	<b>5319</b>			<b>125.22</b>	<b>12.41</b>	<b>112.81</b>
400 kV Sasaram - Varanasi	145	142	161	0	3.65	0.00	3.65
400 kV Sasaram - Allahabad	3	-3	5	19	0.00	0.19	-0.19
400 kV MZP- GKP (D/C)	54	190	195	105	1.35	0.00	1.35
400 KV Patna-Balia(D/C) X 2	421	609	666	0	14.24	0.00	14.24
400 KV B'Sharif-Balia (D/C)	-60	-23	60	76	0.00	0.00	0.00
765 KV Gaya-Balia	188	198	287	0	3.55	0.00	3.55
765 KV Gaya-Varanasi (D/C)	303	216	303	0	4.27	0.00	4.27
220 KV Pusaui-Sahupuri	235	205	235	0	4.55	0.00	4.55
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-38	-38	0	40	0.00	0.81	-0.81
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-241	-222	0	284	0.00	4.34	-4.34
400 KV Barh -GKP (D/C)	478	464	482	0	9.13	0.00	9.13
400 kV B'Sharif - Varanasi (D/C)	-99	-82	0	166	0.00	4.13	-4.13
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
<b>Sub Total ER</b>	<b>1389</b>	<b>1656</b>			<b>40.72</b>	<b>9.47</b>	<b>31.25</b>
+/- 800 KV HVDC BiswanathCharialli-Agra	493	493	494	0.00	11.48	0.00	11.48
<b>Sub Total NER</b>	<b>493</b>	<b>493</b>			<b>11.48</b>	<b>0.00</b>	<b>11.48</b>
<b>Total IR Exch</b>	<b>8649</b>	<b>7468</b>			<b>177.42</b>	<b>21.88</b>	<b>155.54</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
32.45	1.00	33.44	-1.34	-1.51	-3.24	1.64	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
28.87	138.29	167.16	42.73	112.81	155.54	13.86	-25.48	-11.62

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	-12	-12	0	30	0	1	-0.68

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	0.00	5.06	45.20	72.63	16.64	5.95	0.49	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)		
50.25	17.34	49.81	21.06	50.01	0.040	50.11	49.87	27.37	

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	412	11:20	402	19:25	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	425	13:05	394	19:10	0.0	0.0	25.9	0.0	25.9
Bareilly(PG)400kV	400	423	5:03	394	19:11	0.0	0.0	10.7	0.0	10.7
Kanpur	400	420	6:01	391	19:13	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	8:04	402	19:22	0.0	0.0	64.4	0.0	64.4
Ballabgarh	400	425	5:04	398	19:20	0.0	0.0	51.6	0.0	51.6
Bawana	400	426	7:04	399	19:17	0.0	0.0	66.8	0.0	66.8
Bassi	400	424	5:03	397	19:14	0.0	0.0	10.7	0.0	10.7
Hissar	400	423	11:02	396	19:11	0.0	0.0	22.3	0.0	22.3
Moga	400	424	11:04	400	19:13	0.0	0.0	37.0	0.0	37.0
Abdullapur	400	429	11:58	400	19:10	0.0	0.0	73.4	0.0	73.4
Nalagarh	400	433	12:02	408	19:13	0.0	0.0	76.4	6.3	76.4
Kishenpur	400	420	3:48	400	19:08	0.0	0.0	0.0	0.0	0.0
Wagoora	400	400	3:26	373	20:06	17.2	75.7	0.0	0.0	17.2
Amritsar	400	429	3:24	408	19:12	0.0	0.0	71.2	0.0	71.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	423	15:56	414	0:00	0.0	0.0	33.6	0.0	33.6
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
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Station	Voltage Level (kV)	Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	% Deviat
Fatehpur	765	784	5:16	728	19:12	0.0	4.7	0.0	0.0	0.0
Balia	765	801	6:01	742	19:19	0.0	0.0	0.3	0.0	0.3
Moga	765	803	12:00	758	19:12	0.0	0.0	6.5	0.0	6.5
Agra	765	794	5:18	734	19:12	0.0	1.5	0.0	0.0	0.0
Bhiwani	765	810	5:21	764	19:10	0.0	0.0	64.9	0.0	64.9
Unnao	765	787	6:02	730	19:14	0.0	3.7	0.0	0.0	0.0
Lucknow	765	806	6:04	746	19:13	0.0	0.0	4.2	0.0	4.2
Meerut	765	808	5:03	744	19:13	0.0	0.0	18.4	0.0	18.4
Jhatikara	765	808	5:16	757	19:12	0.0	0.0	44.9	0.0	44.9
Bareilly 765 kV	765	814	6:01	751	19:12	0.0	0.0	33.8	0.0	33.8
Anta	765	797	8:06	768	19:14	0.0	0.0	0.0	0.0	0.0
Phagi	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0

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	465.14	195.49	479.58	447.73	366.42	227.84
Pong	426.72	384.05	396.89	157.28	395.81	141.12	75.12	42.56
Tehri	829.79	740.04	759.35	115.67	749.85	49.05	62.07	164.00
Koteshwar	612.50	598.50	610.90	5.00	611.46	5.33	164.00	165.81
Chamera-I	760.00	748.75	752.62	0.00	0.00	0.00	286.36	359.37
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	510.57	0.61	496.37	5.00	317.92	26.38

\* 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	-99	0	0	-99	0	0	-2.38	0.03	-2.35
Delhi	-277	-144	0	-275	-64	0	-4.56	-1.59	-6.15
Haryana	32	267	0	32	174	0	-1.65	1.84	0.19
HP	83	-106	0	76	-911	0	1.96	-7.38	-5.42
J&K	-46	-228	0	-46	-267	0	-1.10	-4.18	-5.28
CHD	0	0	0	0	-20	0	0.00	-0.23	-0.23
Rajasthan	22	429	0	30	385	0	0.58	9.62	10.20
UP	62	-56	0	57	1397	0	0.86	4.51	5.37
Uttarakhand	206	-49	0	116	-32	0	4.85	-1.42	3.43
Total	-16	114	0	-108	661	0	-1.43	1.21	-0.22

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-99	-99	8	0	0	0
Delhi	-98	-424	30	-403	0	0
Haryana	32	-170	270	-599	0	0
HP	84	76	-106	-1051	0	0
J&K	-46	-46	-51	-267	0	0
CHD	0	0	0	-30	0	0
Rajasthan	30	14	430	373	0	0
UP	82	10	1397	-56	0	0
Uttarakhand	241	113	151	-169	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	5	26
Haryana	3	23
Rajasthan	1	14
Delhi	5	72
UP	1	23
Uttarakhand	3	34
HP	4	41
J & K	4	25
Chandigarh	2	20

**XIII. System Constraints:**

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

XV. Weather Conditions For 09.04.2017 :

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 : 09.04.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER