

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 09.09.2016

Date of Reporting : 10.09.2016

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
51312	1926	53238	50.14	48135	294	48429	50.02	1155.0	16.46

\* 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	88.12	19.00		107.12	124.99	124.71	-0.28	231.83	0.00
Haryana	39.02	0.96		39.98	143.38	140.35	-3.03	180.33	0.00
Rajasthan	103.70	1.90	24.48	130.08	68.45	67.42	-1.02	197.50	0.00
Delhi	21.46			21.46	82.81	83.42	0.61	104.88	0.07
UP	161.66	24.30		185.96	139.61	143.88	4.27	329.83	6.86
Uttarakhand		18.80		22.72	15.81	17.67	1.86	40.39	0.00
HP		24.64		24.64	2.44	2.86	0.42	27.50	0.34
J & K		21.97	0.00	21.97	18.63	14.79	-3.85	36.75	9.19
Chandigarh				0.00	6.09	5.95	-0.14	5.95	0.00
<b>Total</b>	<b>413.95</b>	<b>111.57</b>	<b>24.48</b>	<b>553.91</b>	<b>602.21</b>	<b>601.05</b>	<b>-1.17</b>	<b>1154.96</b>	<b>16.46</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	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	10182	0	5	1758	8845	0	70	1299	10182	20:00	0
Haryana	8500	0	-282	2164	7645	0	-23	2335	8844	22:00	0
Rajasthan	8573	0	-114	381	8325	0	-139	358	8880	24:00	0
Delhi	4698	0	-14	571	4260	0	210	368	5021	17:00	0
UP	14076	1460	344	416	15114	0	418	1381	15201	1:00	175
Uttarakhand	1942	0	224	-153	1589	0	112	76	1942	20:00	0
HP	1205	0	32	-1400	979	0	55	-1125	1297	8:00	0
J&K	1865	466	-133	-562	1176	294	-189	-763	1865	20:00	466
Chandigarh	271	0	-11	-10	202	0	3	0	307	15:00	0
<b>Total</b>	<b>51312</b>	<b>1926</b>	<b>52</b>	<b>3163</b>	<b>48135</b>	<b>294</b>	<b>518</b>	<b>3930</b>	<b>51312</b>	<b>20:00</b>	<b>1926</b>

\* STOA figures are at sellers 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 (OG:(+ve), UG: (-ve))	
								Net MU	Net MU
<b>A. NTPC</b>									
Singrauli STPS (5*200+2*500)	2000	1628	1815	1695	39.27	1636	39.06		0.21
Rihand I STPS (2*500)	1000	943	1022	1038	22.36	932	22.42		-0.07
Rihand II STPS (2*500)	1000	953	997	1034	22.50	937	22.54		-0.04
Rihand III STPS (2*500)	1000	953	988	1015	22.42	934	22.56		-0.14
Dadri I STPS (4*210)	840	815	839	804	15.64	652	16.45		-0.81
Dadri II STPS (2*490)	980	957	976	754	18.33	764	19.44		-1.11
Unchahar I TPS (2*210)	420	350	357	394	7.85	327	8.24		-0.39
Unchahar II TPS (2*210)	420	400	415	437	8.63	359	9.25		-0.63
Unchahar III TPS (1*210)	210	200	206	219	4.22	176	4.57		-0.34
ISTPP (Jhajjar) (3*500)	1500	1425	996	675	16.69	695	16.76		-0.07
Dadri GPS (4*130.19+2*154.51)	830	775	369	273	7.19	300	8.18		-0.99
Anta GPS (3*88.71+1*153.2)	419	399	223	194	5.16	215	5.18		-0.02
Auraiya GPS (4*111.19+2*109.30)	663	623	0	153	0.54	22	0.64		-0.11
Dadri Solar(5)	5	1	0	0	0.02	1	0.02		0.00
Unchahar Solar(10)	10	2	0	0	0.04	2	0.05		0.00
Singrauli Solar(15)	15	1	0	0	0.03	1	0.01		0.02
KHEP(4*200)	800	855	743	418	12.23	510	12.00		0.23
<b>Sub Total (A)</b>	<b>12112</b>	<b>11279</b>	<b>9946</b>	<b>9103</b>	<b>203</b>	<b>8464</b>	<b>20.07</b>		<b>-4.25</b>
<b>B. NPC</b>									
NAPS (2*220)	440	189	211	210	4.50	188	4.54		-0.03
RAPS- B (2*220)	440	372	416	420	8.93	372	8.93		0.00
RAPS- C (2*220)	440	405	448	448	9.61	400	9.72		-0.11
<b>Sub Total (B)</b>	<b>1320</b>	<b>966</b>	<b>1075</b>	<b>1078</b>	<b>23.04</b>	<b>960</b>	<b>23.18</b>		<b>-0.14</b>
<b>C. NHPC</b>									
Chamera I HPS (3*180)	540	540	551	0	7.24	301	7.00		0.24
Chamera II HPS (3*100)	300	301	309	204	5.80	242	5.72		0.08
Chamera III HPS (3*77)	231	167	228	155	3.96	165	3.94		0.02
Bairasuli HPS(3*60)	180	179	183	62	1.95	81	1.90		0.05
Salal-HPS (6*115)	690	636	653	666	15.99	666	15.26		0.74
Tanakpur-HPS (3*31.4)	94	91	95	96	2.30	96	2.17		0.13
Uri-I HPS (4*120)	480	428	448	450	10.89	454	10.26		0.63
Uri-II HPS (4*60)	240	235	240	240	5.73	239	5.65		0.08
Dhauliganga-HPS (4*70)	280	204	212	208	4.90	204	4.90		0.00
Dulhasi-HPS (3*130)	390	383	396	390	9.24	385	9.18		0.05
Sewa-II HPS (3*40)	120	119	120	0	0.90	37	0.90		0.00
Parbati 3 (4*130)	520	520	521	0	3.07	128	2.99		0.08
<b>Sub Total (C)</b>	<b>4065</b>	<b>3801</b>	<b>3955</b>	<b>2471</b>	<b>72</b>	<b>2998</b>	<b>70</b>		<b>2.08</b>
<b>D. SJVNL</b>									
NJPC (6*250)	1500	1605	1605	1140	32.45	1352	32.46		-0.02
Rampur HEP (6*68.67)	412	442	443	281	9.16	382	9.03		0.13
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2048</b>	<b>1421</b>	<b>41.60</b>	<b>1734</b>	<b>41.49</b>		<b>0.11</b>
<b>E. THDC</b>									
Tehri HPS (4*250)	1000	1071	1062	0	6.23	260	6.00		0.23
Koteshwar HPS (4*100)	400	95	101	0	1.65	69	1.65		0.00
<b>Sub Total (E)</b>	<b>1400</b>	<b>1166</b>	<b>1163</b>	<b>0</b>	<b>7.88</b>	<b>328</b>	<b>7.65</b>		<b>0.23</b>
<b>F. BBMB</b>									
Bhakra HPS (2*108+3*126+5*157)	1379	842	1335	666	19.98	832	20.21		-0.23
Dehar HPS (6*165)	990	581	660	570	13.82	576	13.94		-0.12
Pong HPS (6*66)	396	325	330	330	7.81	325	7.80		0.01
<b>Sub Total (F)</b>	<b>2765</b>	<b>1748</b>	<b>2325</b>	<b>1566</b>	<b>41.61</b>	<b>1734</b>	<b>41.95</b>		<b>-0.34</b>
<b>G. IPP(s)/JV(s)</b>									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	176	108	2.90	121	2.78		0.12
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	596	18.72	780	18.42		0.30
Malana Stg-II HPS (2*50)	100	0	101	80	2.04	85	1.93		0.11
Shree Cement TPS (2*150)	300	0	191	148	3.95	165	4.16		-0.21
Budhil HPS(IPP) (2*35)	70	0	65	64	1.32	55	1.54		-0.22
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1633</b>	<b>996</b>	<b>28.94</b>	<b>1206</b>	<b>28.83</b>		<b>0.10</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>21007</b>	<b>22145</b>	<b>16635</b>	<b>418.16</b>	<b>17423</b>	<b>420.36</b>		<b>-2.20</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	630	545	12.84	535
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	105	90	2.15	90
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	253	231	5.27	220
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1320	1320	31.40	1308
	Talwandi Saboo (3*660)	1980	1550	1500	36.49	1520
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3858</b>	<b>3686</b>	<b>88.12</b>	<b>3672</b>
	Total Hydro	1000	868	784	19.00	792
	<b>Total Punjab</b>	<b>7560</b>	<b>4726</b>	<b>4470</b>	<b>107.12</b>	<b>4463</b>
	Haryana	Panipat TPS (2*210+2*250)	920	224	198	4.95
DCRTPP (Yamuna nagar) (2*300)		600	270	232	6.49	271
Faridabad GPS (NTPC)(2*137.75+1*156)		432	322	319	7.63	318
RGTTP (khedar) (IPP) (2*600)		1200	0	0	0.00	0
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	1055	740	19.94	831
<b>Thermal (Total)</b>		<b>4497</b>	<b>1871</b>	<b>1489</b>	<b>39.02</b>	<b>1626</b>
Total Hydro		62	37	40	0.96	40
<b>Total Haryana</b>		<b>4559</b>	<b>1908</b>	<b>1529</b>	<b>39.98</b>	<b>1666</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	806	616	16.60
	suratgarh TPS (6*250)	1500	435	210	7.50	313
	Chabra TPS (4*250)	1000	733	870	19.20	800
	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	103	97	2.60	108
	RAPS A (NPC) (1*100+1*200)	300	167	165	4.10	171
	Barsingsar (NLC) (2*125)	250	226	226	5.30	221
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	794	827	19.20	800
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	1232	1206	29.20	1217
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4496</b>	<b>4217</b>	<b>104</b>	<b>4321</b>
	Total Hydro	550	89	89	1.90	79
	Wind power	3214	733	1362	24.00	1000
	Biomass	99	20	20	0.48	20
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	753	1382	24.48	1020
	<b>Total Rajasthan</b>	<b>13469</b>	<b>5338</b>	<b>5688</b>	<b>130.08</b>	<b>5420</b>
	UP	Anpara TPS (3*210+2*500)	1630	836	1120	23.70
Obra TPS (2*50+2*94+5*200)		1194	163	311	6.80	283
Paricha TPS (2*110+2*220+2*250)		1160	895	866	21.10	879
Panki TPS (2*105)		210	144	144	3.50	146
Harduaganj TPS (1*60+1*105+2*250)		665	444	437	10.60	442
Tanda TPS (NTPC) (4*110)		440	353	353	7.66	319
Roza TPS (IPP) (4*300)		1200	1093	1090	26.20	1092
Anpara-C (IPP) (2*600)		1200	936	950	22.40	933
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	405	9.60	400
Anpara-D(2*500)		1000	383	230	6.40	267
Lalitpur TPS(3*660)		1980	242	455	8.80	367
Bara(2*660)		1320	578	576	13.70	571
<b>Thermal (Total)</b>		<b>12449</b>	<b>6472</b>	<b>6937</b>	<b>160</b>	<b>6686</b>
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438
Alaknanda(4*82.5)		330	313	340	8.00	333
Other Hydro		527	232	266	5.80	242
Cogeneration		981	50	50	1.20	50
<b>Total UP</b>	<b>14727</b>	<b>7502</b>	<b>8028</b>	<b>186</b>	<b>7748</b>	
Uttarakhand	Total Hydro	1398	787	757	18.80	783
	Total Gas	225	185	163	3.92	163
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>972</b>	<b>920</b>	<b>23</b>	<b>947</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	71	72	1.81	75
	Pragati Gas Turbine (2x104+ 1x122)	330	266	270	6.51	271
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	253	6.07	253
	Badarpur TPS (NTPC) (3*95+2*210)	705	331	325	7.08	295
	<b>Thermal (Total)</b>	<b>2917</b>	<b>920</b>	<b>920</b>	<b>21.46</b>	<b>894</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>920</b>	<b>920</b>	<b>21.46</b>	<b>894</b>
HP	Baspa HPS (IPP) (3*100)	300	301	331	7.54	314
	Malana HPS (IPP) (2*43)	86	106	106	2.63	110
	Other Hydro	878	598	605	14.47	603
	<b>Total HP</b>	<b>1264</b>	<b>1005</b>	<b>1042</b>	<b>24.64</b>	<b>1027</b>
J & K	Baqlihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733
	Other Hydro/IPP	560	181	185	4.38	182
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1500</b>	<b>914</b>	<b>918</b>	<b>21.97</b>	<b>915</b>
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>23285</b>	<b>23515</b>	<b>553.91</b>	<b>23080</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>8217</b>	<b>9379</b>	<b>200.74</b>	<b>8364</b>
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>53647</b>	<b>49529</b>	<b>1172.81</b>	<b>48867</b>
<b>IV. Total Hydro Generation:</b>						
<b>Regional Entities Hydro</b>		<b>12234</b>	<b>11610</b>	<b>6660</b>	<b>198.95</b>	<b>8289</b>
<b>State Control Area Hydro</b>		<b>7106</b>	<b>4865</b>	<b>4834</b>	<b>111.57</b>	<b>4812</b>
<b>Total Regional Hydro</b>		<b>19340</b>	<b>16475</b>	<b>11494</b>	<b>310.51</b>	<b>13101</b>

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhyachal(HVDC B/B)	100	250	250	100	2.79	1.20	1.59
765 KV Gwalior-Agra (D/C)	2254	2657	2944	0	57.81	0.00	57.81
400 KV Zerda-Kankroli	-57	-123	0	318	0.00	3.04	-3.04
400 KV Zerda-Bhinmal	-19	-132	52	298	0.00	2.18	-2.18
220 KV Auraiya-Malanpur	-69	-74	0	90	0.00	1.30	-1.30
220 KV Badod-Kota/Morak	51	89	128	36	1.16	0.00	1.16
Mundra-Mohinderghar(HVDC Bipole)	2502	2497	2507	0.00	60.46	0.00	60.46
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1010	1035	1212	0	23.43	0.00	23.43
<b>Sub Total WR</b>	<b>5772</b>	<b>6199</b>			<b>145.66</b>	<b>7.71</b>	<b>137.95</b>
Pusauli Bypass/HVDC	250	250	250	0	6.13	0.00	6.13
400 KV MZP- GKP (D/C)	164	488	545	0	10.00	0.00	10.00
400 KV Patna-Balia(D/C) X 2	449	399	575	0	11.27	0.00	11.27
400 KV B'Sharif-Balia (D/C)	36	143	181	0	2.90	0.00	2.90
765 KV Gaya-Balia	238	315	339	0	3.32	0.00	3.32
765 KV Gaya-Varanasi (D/C)	365	543	646	0	6.14	0.00	6.14
220 KV Pusauli-Sahupuri	0	163	182	0	2.72	0.00	2.72
132 KV K'nasa-Sahupuri	0	-26	0	30	0.00	0.53	-0.53
132 KV Son Ngr-Rihand	-33	-24	0	30	0.00	0.64	-0.64
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-192	-158	0	245	0.00	3.70	-3.70
400 KV Barh -GKP (D/C)	398	408	432	0	8.66	0.00	8.66
400 kV B'Sharif - Varanasi (D/C)	70	-21	123	70	0.40	0.00	0.40
<b>Sub Total ER</b>	<b>1745</b>	<b>2480</b>			<b>51.53</b>	<b>4.87</b>	<b>46.66</b>
+/- 800 KV BiswanathCharialli-Agra	700	700	700	0.00	16.13	0.00	16.13
<b>Sub Total NER</b>	<b>700</b>	<b>700</b>			<b>16.13</b>	<b>0.00</b>	<b>16.13</b>
<b>Total IR Exch</b>	<b>8217</b>	<b>9379</b>			<b>213.32</b>	<b>12.58</b>	<b>200.74</b>

V(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
45.44	3.77	49.21	36.88	11.86	2.67	18.75	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
88.75	132.10	220.85	62.79	137.95	200.74	-25.96	5.85	-20.11

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

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-30	0	0	31	0	0	-0.44

VI. 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	2.84	47.32	76.31	17.49	3.41	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)		
50.17	13.01	49.83	4.37	50.00	0.031	0.056	50.18	49.96	23.69

VII. 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	408	6:28	402	3:23	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	6:32	398	22:17	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	6:16	397	11:20	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	7:02	396	19:17	0.0	0.0	0.0	0.0	0.0
Dadri	400	413	7:01	392	19:13	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	423	6:05	398	19:13	0.0	0.0	8.1	0.0	8.1
Bawana	400	419	7:01	395	19:14	0.0	0.0	0.0	0.0	0.0
Bassi	400	422	5:02	397	19:15	0.0	0.0	0.7	0.0	0.7
Hissar	400	415	6:07	388	19:10	0.0	1.6	0.0	0.0	0.0
Moga	400	415	6:03	394	19:12	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	417	7:01	394	19:16	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	416	6:04	395	14:48	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	3:59	397	19:19	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	3:43	382	19:36	0.0	35.6	0.0	0.0	0.0
Amritsar	400	414	3:59	393	19:13	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	411	4:00	391	14:36	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	411	17:04	385	11:22	0.0	5.9	0.0	0.0	0.0

VIII. 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	790	18:16	750	22:17	0.0	0.0	0.0	0.0	0.0
Balia	765	787	6:22	754	22:17	0.0	0.0	0.0	0.0	0.0
Moga	765	806	6:02	764	19:15	0.0	0.0	10.3	0.0	10.3
Agra	765	795	6:06	755	22:17	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	802	7:03	758	19:18	0.0	0.0	0.5	0.0	0.5
Unnao	765	766	7:00	734	19:15	0.0	16.0	0.0	0.0	0.0
Lucknow	765	790	6:22	755	19:14	0.0	0.0	0.0	0.0	0.0
Meerut	765	780	20:18	763	19:17	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	799	7:03	756	19:17	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	795	7:01	756	11:26	0.0	0.0	0.0	0.0	0.0
Anta	765	796	0:00	796	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	795	5:03	758	19:33	0.0	0.0	0.0	0.0	0.0

**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	502.81	1219.07	511.47	1620.46	665.67	599.92
Pong	426.72	384.05	417.84	794.52	422.24	990.81	308.82	465.33
Tehri	829.79	740.04	822.80	1060.00	820.10	1002.27	307.49	136.00
Koteswar	612.50	598.50	610.71	4.95	610.73	4.95	136.00	109.00
Chamera-I	760.00	748.75	752.85	0.00	0.00	0.00	202.76	196.60
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 Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	521.42	7.57	515.22	10.51	201.65	255.95

\* 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	902	397	0	765	993	0	22.61	19.20	41.81
Delhi	589	-221	0	634	-64	0	15.38	-0.19	15.19
Haryana	1933	389	13	1792	359	13	42.97	6.17	49.14
HP	-856	-269	0	-552	-848	0	-16.53	-10.87	-27.39
J&K	-547	-216	0	-547	-15	0	-13.73	-1.16	-14.89
CHD	0	0	0	0	-10	0	0.36	-0.04	0.32
Rajasthan	-230	584	4	-128	505	4	-3.69	12.09	8.40
UP	988	393	0	416	0	0	13.02	1.97	14.99
Uttarakhand	-167	244	0	-167	14	0	-4.01	3.82	-0.19
<b>Total</b>	<b>2611</b>	<b>1301</b>	<b>17</b>	<b>2211</b>	<b>935</b>	<b>18</b>	<b>56.38</b>	<b>30.99</b>	<b>87.37</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1086	715	1061	45	0	0
Delhi	699	520	391	-340	0	0
Haryana	2099	1603	423	-376	14	13
HP	-552	-856	-221	-933	0	0
J&K	-547	-618	85	-216	0	0
CHD	44	0	0	-10	0	0
Rajasthan	-128	-230	593	-51	4	4
UP	1044	355	393	0	0	0
Uttarakhand	-167	-167	366	1	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	11.11%
ER	0.00%
Simultaneous	3.13%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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**XII. System Constraints:**

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

**XIV. Weather Conditions For 09.09.2016 :**

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

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

220kV Bagpat(PG)-Muradnagar and Baghat(PG)-Shamli charged at 12:36 and 13:29 hrs on 09.09.2016 respectively after lloed at Baghat (PG).

**XVII. Tripping of lines in pooling stations :**

**XVIII. 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.