

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 21.08.2016  
Date of Reporting : 22.08.2016



### 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
44774	870	45644	49.96	42297	441	42738	50.02	1015.3	11.20

\* 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	64.66	17.17		81.83	114.59	114.57	-0.02	196.40	0.00
Haryana	28.36	1.00		29.36	134.13	131.87	-2.27	161.22	1.16
Rajasthan	78.06	6.63	11.17	95.87	70.82	71.36	0.54	167.22	0.00
Delhi	18.48			18.48	80.83	79.99	-0.84	98.47	0.00
UP	115.91	24.67		140.58	149.01	149.54	0.53	290.12	1.29
Uttarakhand		18.77		19.55	15.53	18.90	3.37	38.45	0.11
HP		24.92		24.92	-0.60	-1.28	-0.68	23.64	0.02
J & K		21.97	0.00	21.97	15.58	12.53	-3.05	34.50	8.62
Chandigarh				0.00	5.62	5.33	-0.29	5.33	0.00
<b>Total</b>	<b>305.46</b>	<b>115.13</b>	<b>11.17</b>	<b>432.54</b>	<b>585.50</b>	<b>582.80</b>	<b>-2.70</b>	<b>1015.34</b>	<b>11.20</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	9126	0	-47	1446	7299	0	-38	1542	9177	21:00	0
Haryana	7390	16	-18	2087	6954	0	-53	2393	8170	22:00	14
Rajasthan	6984	0	74	397	6882	0	-77	372	7403	9:00	0
Delhi	4123	0	-223	466	4385	0	148	261	4987	24:00	0
UP	12391	320	-19	609	13192	190	89	1429	13441	4:00	0
Uttarakhand	1690	80	166	-164	1506	0	149	-188	1737	21:00	0
HP	997	0	-23	-1563	868	0	36	-1673	1125	12:00	0
J&K	1816	454	55	-673	1004	251	-235	-1097	1816	20:00	454
Chandigarh	258	0	2	-25	208	0	26	-15	275	21:00	0
<b>Total</b>	<b>44774</b>	<b>870</b>	<b>-33</b>	<b>2580</b>	<b>42297</b>	<b>441</b>	<b>44</b>	<b>3024</b>	<b>46416</b>	<b>21:00</b>	<b>544</b>

\$ STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

Diversity is: 1.04

### III. Regional Entities :

Station/ Constituent	Inst. Capacity	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW		(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1374	1613	1286	33.00	1375	32.27	0.72
Rihand I STPS (2*500)	1000	704	790	678	16.22	676	16.05	0.16
Rihand II STPS (2*500)	1000	453	501	496	10.74	447	10.18	0.55
Rihand III STPS (2*500)	1000	963	1009	1020	21.47	895	21.47	0.00
Dadri I STPS (4*210)	840	805	210	210	4.38	182	4.49	-0.12
Dadri II STPS (2*490)	980	960	971	952	18.72	780	19.69	-0.97
Unchahar I TPS (2*210)	420	400	438	420	8.28	345	8.62	-0.34
Unchahar II TPS (2*210)	420	400	396	400	7.77	324	8.09	-0.32
Unchahar III TPS (1*210)	210	200	220	202	3.85	160	4.04	-0.19
ISTPP (Jhajjar) (3*500)	1500	1425	938	677	15.26	636	15.58	-0.31
Dadri GPS (4*130.19+2*154.51)	830	593	182	174	3.87	161	4.23	-0.36
Anta GPS (3*88.71+1*153.2)	419	270	251	202	4.77	199	4.68	0.09
Auraiya GPS (4*111.19+2*109.30)	663	634	138	114	3.14	131	3.18	-0.04
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	2	0	0	0.07	3	0.04	0.03
KHEP(4*200)	800	855	853	852	20.57	857	20.52	0.05
<b>Sub Total (A)</b>	<b>12112</b>	<b>10040</b>	<b>8510</b>	<b>7683</b>	<b>172</b>	<b>7174</b>	<b>173</b>	<b>-1.03</b>
<b>B. NPC</b>								
NAPS (2*220)	440	383	422	421	9.24	385	9.19	0.05
RAPS- B (2*220)	440	179	204	205	4.28	178	4.30	-0.02
RAPS- C (2*220)	440	405	438	438	9.43	393	9.72	-0.29
<b>Sub Total (B)</b>	<b>1320</b>	<b>967</b>	<b>1064</b>	<b>1064</b>	<b>22.95</b>	<b>956</b>	<b>23.21</b>	<b>-0.26</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	540	549	549	13.11	546	12.96	0.15
Chamera II HPS (3*100)	300	301	311	302	7.27	303	7.22	0.05
Chamera III HPS (3*77)	231	224	225	230	5.33	222	5.37	-0.03
Bairasuli HPS(3*60)	180	179	184	182	2.67	111	2.56	0.11
Salal-HPS (6*115)	690	662	669	669	16.14	673	15.89	0.26
Tanakpur-HPS (3*31.4)	94	87	92	94	2.22	92	2.08	0.14
Uri-I HPS (4*120)	480	349	369	369	8.61	359	8.41	0.20
Uri-II HPS (4*60)	240	198	239	211	4.94	206	4.75	0.19
Dhauliganga-HPS (4*70)	280	280	288	284	6.77	282	6.72	0.05
Dulhasti-HPS (3*130)	390	383	399	390	9.26	386	9.18	0.07
Sewa-II HPS (3*40)	120	119	128	0	1.54	64	1.50	0.04
Parbati 3 (4*130)	520	425	395	130	4.47	186	4.42	0.05
<b>Sub Total (C)</b>	<b>4065</b>	<b>3746</b>	<b>3847</b>	<b>3410</b>	<b>82</b>	<b>3431</b>	<b>81</b>	<b>1.29</b>
<b>D. SJVNL</b>								
NJPC (6*250)	1500	1605	1611	1592	38.45	1602	38.52	-0.07
Rampur HEP (6*68.67)	412	442	447	447	10.66	444	10.61	0.05
<b>Sub Total (D)</b>	<b>1912</b>	<b>2047</b>	<b>2058</b>	<b>2039</b>	<b>49.11</b>	<b>2046</b>	<b>49.13</b>	<b>-0.02</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	1033	1056	261	16.61	692	16.00	0.61
Koteshwar HPS (4*100)	400	233	404	277	5.66	236	5.60	0.06
<b>Sub Total (E)</b>	<b>1400</b>	<b>1266</b>	<b>1460</b>	<b>538</b>	<b>22.26</b>	<b>928</b>	<b>21.60</b>	<b>0.66</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	878	1334	667	20.83	868	21.06	-0.23
Dehar HPS (6*165)	990	609	825	580	14.87	620	14.61	0.26
Pong HPS (6*66)	396	279	396	198	6.55	273	6.70	-0.15
<b>Sub Total (F)</b>	<b>2765</b>	<b>1765</b>	<b>2555</b>	<b>1445</b>	<b>42.25</b>	<b>1760</b>	<b>42.37</b>	<b>-0.12</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	212	99	3.81	159	4.13	-0.32
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.36	1099	26.08	0.28
Malana Stg-II HPS (2*50)	100	0	106	111	1.56	65	1.49	0.07
Shree Cement TPS (2*150)	300	0	146	270	4.51	188	5.32	-0.81
Budhil HPS(IPP) (2*35)	70	0	75	75	1.75	73	1.75	0.00
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1638</b>	<b>1655</b>	<b>38.00</b>	<b>1583</b>	<b>38.77</b>	<b>-0.77</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>19832</b>	<b>21131</b>	<b>17835</b>	<b>429.09</b>	<b>17879</b>	<b>429.33</b>	<b>-0.24</b>

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	420	480	8.43	351	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	105	170	2.59	108	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	251	192	4.27	178	
	Goindwal(GVK) (2*270)	540	0	0	-0.09	-4	
	Rajpura (2*700)	1400	1320	660	20.90	871	
	Talwandi Saboo (3*660)	1980	1278	1153	28.56	1190	
	<b>Thermal (Total)</b>	<b>6560</b>	<b>3374</b>	<b>2655</b>	<b>64.66</b>	<b>2694</b>	
	Total Hydro	1000	792	573	17.17	716	
	<b>Total Punjab</b>	<b>7560</b>	<b>4166</b>	<b>3228</b>	<b>81.83</b>	<b>3409</b>	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	239	239	5.67	236	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	163	167	4.12	172	
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	741	740	18.57	774	
<b>Thermal (Total)</b>		<b>4497</b>	<b>1143</b>	<b>1146</b>	<b>28.36</b>	<b>1182</b>	
Total Hydro		62	39	40	1.00	42	
<b>Total Haryana</b>		<b>4559</b>	<b>1182</b>	<b>1186</b>	<b>29.36</b>	<b>1223</b>	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	496	179	10.08	420
	suratgarh TPS (6*250)	1500	0	0	0.00	0	
	Chabra TPS (4*250)	1000	440	358	9.88	412	
	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	145	145	3.00	125	
	RAPS A (NPC) (1*100+1*200)	300	164	163	4.10	171	
	Barsingar (NLC) (2*125)	250	229	227	5.37	224	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	596	829	16.23	676	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	472	489	11.32	472	
	Kawai(Adani) (2*660)	1320	572	874	18.08	753	
	<b>Thermal (Total)</b>	<b>8876</b>	<b>3114</b>	<b>3264</b>	<b>78</b>	<b>3253</b>	
	Total Hydro	550	296	281	6.63	276	
	Wind power	3214	227	429	8.05	335	
	Biomass	99	26	26	0.62	26	
	Solar	730	0	0	2.51	104	
	Renewable/Others (Total)	4043	253	455	11.17	466	
	<b>Total Rajasthan</b>	<b>13469</b>	<b>3663</b>	<b>4000</b>	<b>95.87</b>	<b>3994</b>	
	UP	Anpara TPS (3*210+2*500)	1630	762	797	17.40	725
Obra TPS (2*50+2*94+5*200)		1194	238	240	5.70	238	
Paricha TPS (2*110+2*220+2*250)		1160	809	807	17.20	717	
Panki TPS (2*105)		210	140	144	3.30	138	
Harduaganj TPS (1*60+1*105+2*250)		665	439	433	9.80	408	
Tanda TPS (NTPC) (4*110)		440	364	380	8.81	367	
Roza TPS (IPP) (4*300)		1200	1089	1098	26.11	1088	
Anpara-C (IPP) (2*600)		1200	1008	810	21.41	892	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	233	243	4.98	208	
Anpara-D(2*500)		1000	0	0	0.00	0	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	0	0	0.00	0	
<b>Thermal (Total)</b>		<b>12449</b>	<b>5082</b>	<b>4952</b>	<b>115</b>	<b>4780</b>	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.48	437	
Alaknanda(4*82.5)		330	334	335	7.83	326	
Other Hydro		527	289	288	6.36	265	
Cogeneration		981	50	50	1.20	50	
<b>Total UP</b>		<b>14727</b>	<b>6190</b>	<b>6060</b>	<b>141</b>	<b>5858</b>	
Uttarakhand		Total Hydro	1398	791	909	18.77	782
		Total Gas	225	0	55	0.78	32
	<b>Total Uttarakhand</b>	<b>1623</b>	<b>791</b>	<b>964</b>	<b>20</b>	<b>815</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	70	70	1.69	70	
	Pragati Gas Turbine (2x104+ 1x122)	330	146	150	3.65	152	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	251	252	6.05	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	324	322	7.09	295	
	<b>Thermal (Total)</b>	<b>2917</b>	<b>791</b>	<b>794</b>	<b>18.48</b>	<b>770</b>	
	<b>Total Delhi</b>	<b>2917</b>	<b>791</b>	<b>794</b>	<b>18.48</b>	<b>770</b>	
HP	Baspa HPS (IPP) (3*100)	300	304	334	7.56	315	
	Malana HPS (IPP) (2*43)	86	92	88	1.97	82	
	Other Hydro	878	650	651	15.40	641	
	<b>Total HP</b>	<b>1264</b>	<b>1046</b>	<b>1073</b>	<b>24.92</b>	<b>1038</b>	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733	
	Other Hydro/IPP	560	184	185	4.38	182	
	Gas/Diesel/Others	190	0	0	0.00	0	
	<b>Total J &amp; K</b>	<b>1500</b>	<b>917</b>	<b>918</b>	<b>21.97</b>	<b>915</b>	
<b>Total State Control Area Generation</b>		<b>47619</b>	<b>18746</b>	<b>18223</b>	<b>432.54</b>	<b>18022</b>	
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>7986.21</b>	<b>8044.92</b>	<b>174.01</b>	<b>7251</b>	
<b>Total Regional Availability(Gross)</b>		<b>72856</b>	<b>47863</b>	<b>44103</b>	<b>1035.64</b>	<b>43152</b>	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	12190	9595	248.27	10344
State Control Area Hydro		7106	4939	4907	115.91	4829
<b>Total Regional Hydro</b>		<b>19340</b>	<b>17129</b>	<b>14502</b>	<b>364.17</b>	<b>15174</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	
Vindhychal(HVDC B/B)	-500	-500	0	500	0.00	11.55	-11.55
765 KV Gwalior-Agra (D/C)	2332	2776	2776	0	50.87	0.00	50.87
400 KV Zerda-Kankroli	224	72	224	61	2.39	0.00	2.39
400 KV Zerda-Bhinmal	146	144	254	86	2.49	0.00	2.49
220 KV Auraiya-Malanpur	-35	51	51	86	0.00	0.04	-0.04
220 KV Badod-Kota/Morak	194	228	255	125	4.82	0.00	4.82
Mundra-Mohinderghar(HVDC Bipole)	2001	1399	2304	0.00	38.69	0.00	38.69
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	968	993	1112	583	22.24	0.00	22.24
<b>Sub Total WR</b>	<b>5330</b>	<b>5163</b>			<b>121.48</b>	<b>11.59</b>	<b>109.89</b>
Pusauli Bypass/HVDC	250	250	250	0	6.04	0.00	6.04
400 KV MZP- GKP (D/C)	280	184	470	0	7.47	0.00	7.47
400 KV Patna-Balia(D/C) X 2	320	438	703	0	11.55	0.00	11.55
400 KV B'Sharif-Balia (D/C)	63	102	219	0	2.69	0.00	2.69
765 KV Gaya-Balia	266	221	581	0	3.14	0.00	3.14
765 KV Gaya-Varanasi (D/C)	491	433	581	0	9.04	0.00	9.04
220 KV Pusauli-Sahupuri	208	187	227	0	4.43	0.00	4.43
132 KV K'nasa-Sahupuri	-24	-24	0	38	0.00	0.55	-0.55
132 KV Son Ngr-Rihand	-30	-30	0	40	0.00	0.70	-0.70
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-229	-313	0	313	0.00	5.13	-5.13
400 KV Barh -GKP (D/C)	418	374	472	0	7.96	0.00	7.96
400 kV B'Sharif - Varanasi (D/C)	-57	60	124	57	0.40	0.00	0.40
<b>Sub Total ER</b>	<b>1956</b>	<b>1882</b>			<b>52.72</b>	<b>6.37</b>	<b>46.35</b>
+/- 800 KV BiswanathChariali-Agra	700	1000	1000	0.00	17.77	0.00	17.77
<b>Sub Total NER</b>	<b>700</b>	<b>1000</b>			<b>17.77</b>	<b>0.00</b>	<b>17.77</b>
<b>Total IR Exch</b>	<b>7986</b>	<b>8045</b>			<b>191.98</b>	<b>17.96</b>	<b>174.01</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
34.13	3.66	37.79	42.86	11.71	-9.57	-4.00	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
71.09	110.60	181.68	64.12	109.89	174.01	-6.96	-0.71	-7.67

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	-29	-12	0	29	0	1	-0.58

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	0.24	1.10	10.22	56.77	74.83	11.64	3.37	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)		
50.18	18.33	49.65	0.08	49.98	0.049	0.068	0.00	0.00	25.17

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	410	0:00	406	11:19	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	425	6:02	406	22:11	0.0	0.0	5.9	0.0	5.9
Bareilly(PG)400kV	400	420	6:03	399	11:16	0.0	0.0	0.0	0.0	0.0
Kanpur	400	423	6:01	409	0:16	0.0	0.0	3.8	0.0	3.8
Dadri	400	416	6:02	402	20:29	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	424	6:01	408	20:23	0.0	0.0	8.0	0.0	8.0
Bawana	400	419	6:02	404	20:31	0.0	0.0	0.0	0.0	0.0
Bassi	400	422	6:00	403	22:09	0.0	0.0	1.1	0.0	1.1
Hissar	400	414	6:03	398	19:39	0.0	0.0	0.0	0.0	0.0
Moga	400	413	6:02	399	20:28	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	412	6:01	398	19:38	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	417	6:09	406	19:45	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	3:26	402	19:48	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	3:55	389	20:07	0.0	0.1	0.0	0.0	0.0
Amritsar	400	418	6:00	404	20:16	0.0	0.0	0.0	0.0	0.0
Kashipur	400	418	0:00	418	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	418	6:02	405	20:22	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	6:03	400	12:19	0.0	0.0	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	791	6:03	760	20:31	0.0	0.0	0.0	0.0	0.0
Balia	765	801	6:02	770	22:07	0.0	0.0	0.3	0.0	0.3
Moga	765	802	6:01	773	20:23	0.0	0.0	0.7	0.0	0.7
Agra	765	797	6:03	758	20:30	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Unnao	765	781	6:05	755	20:25	0.0	0.0	0.0	0.0	0.0
Lucknow	765	800	6:05	769	22:10	0.0	0.0	0.0	0.0	0.0
Meerut	765	813	6:03	779	20:30	0.0	0.0	25.2	0.0	25.2
Jhatikara	765	801	6:03	769	20:30	0.0	0.0	0.2	0.0	0.2
Bareilly 765 kV	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Anta	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Phagi	765	795	6:00	767	20:20	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	498.08	1018.16	509.58	1530.03	1011.02	655.00
Pong	426.72	384.05	415.10	680.86	422.43	1005.78	630.76	407.56
Tehri	829.79	740.04	812.95	862.27	814.65	900.00	753.12	381.00
Koteshwar	612.50	598.50	611.30	5.20	610.11	4.62	381.00	372.75
Chamera-I	760.00	748.75	757.02	0.00	0.00	0.00	360.13	359.25
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	518.97	5.46	522.61	13.93	344.44	231.14

\* 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	1532	10	0	1245	201	0	38.55	2.03	40.57
Delhi	482	-221	0	651	-185	0	17.00	-7.41	9.59
Haryana	2037	343	13	1787	288	13	44.48	3.05	47.52
HP	-1371	-303	0	-1274	-289	0	-29.46	-6.93	-36.39
J&K	-583	-514	0	-659	-15	0	-15.92	-3.74	-19.66
CHD	0	-15	0	0	-25	0	0.36	-0.45	-0.10
Rajasthan	-190	562	0	-129	526	0	-3.45	12.48	9.03
UP	1036	393	0	609	0	0	16.47	1.92	18.39
Uttarakhand	-126	-62	0	-126	-38	0	-3.02	-1.62	-4.64
<b>Total</b>	<b>2819</b>	<b>192</b>	<b>13</b>	<b>2105</b>	<b>463</b>	<b>13</b>	<b>65.00</b>	<b>-0.68</b>	<b>64.32</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1848	1245	481	9	0	0
Delhi	1028	482	239	-616	0	0
Haryana	2094	1723	347	-497	13	12
HP	-1092	-1523	-243	-349	0	0
J&K	-583	-860	0	-514	0	0
CHD	44	0	0	-40	0	0
Rajasthan	-129	-190	565	-73	0	0
UP	1057	533	393	0	0	0
Uttarakhand	-126	-126	2	-211	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	4.51%

(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 21.08.2016 :**

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

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

**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.