

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त महायुक्त कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 12.07.2015  
Date of Reporting : 13.07.2015

### I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW			Day Energy (Net MU)		
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
33969	1598	35568	50.00	31793	235	32028	50.09	747.1	16.12

\* 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	27.62	19.35		46.97	92.15	89.13	-3.02	136.11	0.00
Haryana	5.19	0.61		5.80	94.97	84.80	-10.17	90.59	0.00
Rajasthan	83.39	0.19	13.91	97.49	60.81	62.89	2.08	160.38	0.00
Delhi	12.59			12.59	61.65	59.71	-1.94	72.31	0.02
UP	94.20	6.40		100.60	105.66	99.10	-6.57	199.70	8.25
Uttarakhand		15.92		15.92	11.67	12.27	0.60	28.19	0.08
HP		22.72		22.72	0.01	0.22	0.22	22.94	0.00
J & K		15.48	0.00	15.48	17.72	17.62	-0.10	33.10	7.77
Chandigarh				0.00	4.80	3.78	0.27	3.78	0.00
<b>Total</b>	<b>223.00</b>	<b>80.66</b>	<b>13.91</b>	<b>317.58</b>	<b>449.44</b>	<b>429.51</b>	<b>-18.64</b>	<b>747.09</b>	<b>16.12</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				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	5906	0	-162	1251	5469	0	51	1443	6102
Haryana	4173	6	58	1594	3937	0	-400	1387	4255
Rajasthan	6337	0	-23	40	6712	0	188	91	7083
Delhi	3171	0	-90	29	3040	0	-44	8	3342
UP	10210	1190	331	706	9009	0	-14	856	10899
Uttarakhand	1434	0	143	-55	1285	0	175	-55	1651
HP	940	0	56	-1337	869	0	84	-1421	1121
J&K	1610	402	-90	-212	1331	235	-90	-328	1955
Chandigarh	189	0	-31	0	140	0	-32	0	189
<b>Total</b>	<b>33969</b>	<b>1598</b>	<b>191</b>	<b>2016</b>	<b>31793</b>	<b>235</b>	<b>-82</b>	<b>1981</b>	<b>35302</b>

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

UI/OA/PX (OD/Import: (+ve), UD/Export: (-ve))

Diversity is 1.04

### III. Regional Entities :

Entity	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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1586	1678	1240	31.53	1314	28.23		3.30
	Rihand I STPS (2*500)	1000	875	669	708	16.09	670	14.04		2.04
	Rihand II STPS (2*500)	1000	960	718	720	17.00	708	15.59		1.41
	Rihand III STPS (2*500)	1000	471	348	396	8.14	339	7.32		0.82
	Dadri I STPS (4*210)	840	810	285	268	7.49	312	6.97		0.52
	Dadri II STPS (2*490)	980	975	679	647	16.34	681	16.38		-0.04
	Unchahar I TPS (2*210)	420	402	321	293	6.82	284	6.77		0.05
	Unchahar II TPS (2*210)	420	200	169	115	3.02	126	3.36		-0.34
	Unchahar III TPS (1*220)	210	200	173	133	3.16	132	3.36		-0.20
	ISTPP (Jhajjar) (3*500)	1500	1500	420	637	12.79	533	13.07		-0.28
	Dadri GPS (4*130.19+2*154.51)	830	804	189	238	5.09	212	5.21		-0.12
	Anta GPS (3*88.71+1*153.2)	419	383	-1	-1	0.00	0	0.03		-0.03
	Auraiya GPS (4*111.19+2*109.30)	663	640	140	116	2.98	124	2.86		0.12
	Dadri Solar	5	0	0	0	0.00	0	0.01		0.00
	Unchahar Solar	10	3	0	0	0.02	1	0.06		-0.04
	Singrauli Solar	15	3	0	0	0.00	0	0.07		-0.07
KHEP	800	0	605	606	14.60	608	0.00		14.60	
<b>Sub Total (A)</b>	<b>12112</b>	<b>9813</b>	<b>6393</b>	<b>6116</b>	<b>145</b>	<b>6045</b>	<b>123</b>		<b>22</b>	
B. NPC	NAPS (2*220)	440	376	424	424	9.21	384	9.02		0.19
	RAPS- B (2*220)	440	381	430	428	9.22	384	9.14		0.07
	RAPS- C (2*220)	440	400	435	436	9.34	389	9.60		-0.26
	<b>Sub Total (B)</b>	<b>1320</b>	<b>1157</b>	<b>1289</b>	<b>1288</b>	<b>27.77</b>	<b>1157</b>	<b>27.77</b>		<b>0.01</b>
C. NHPC	Chamera I HPS (3*180)	540	537	543	547	13.01	542	12.89		0.13
	Chamera II HPS (3*100)	300	300	301	303	7.21	301	7.20		0.01
	Chamera III HPS (3*77)	231	229	232	234	5.52	230	5.50		0.02
	Bairasuil HPS(3*60)	180	179	185	181	3.77	157	3.67		0.09
	Salal-HPS (6*115)	690	423	255	662	9.80	408	10.60		-0.79
	Tanakpur-HPS (3*40)	94	92	93	96	2.26	94	2.20		0.06
	Uri-I HPS (4*120)	480	462	469	464	11.34	473	11.07		0.27
	Uri-II HPS (4*60)	240	173	182	182	4.15	173	4.14		0.01
	Dhauliganga-HPS (4*70)	280	61	215	0	1.47	61	1.57		-0.10
	Dulhasti-HPS (3*130)	390	386	395	394	9.33	389	9.26		0.06
	Sewa-II HPS (3*40)	120	119	130	129	3.04	127	2.86		0.18
	Parbati 3 (4*130)	520	260	264	265	6.28	262	6.24		0.04
	<b>Sub Total (C)</b>	<b>4065</b>	<b>3220</b>	<b>3264</b>	<b>3457</b>	<b>77</b>	<b>3216</b>	<b>77</b>		<b>0</b>
D. SJVNL	NJPC (6*250)	1500	1605	1605	1605	38.53	1605	38.52		0.01
	Rampur HEP (6*68.67)	412	375	375	375	9.02	376	9.00		0.02
	<b>Sub Total (D)</b>	<b>1912</b>	<b>1980</b>	<b>1980</b>	<b>1980</b>	<b>47.55</b>	<b>1981</b>	<b>47.52</b>		<b>0.03</b>
E. THDC	Tehri HPS (4*250)	1000	664	645	0	5.30	221	5.20		0.10
	Koteshwar HPS (4*100)	400	121	292	90	2.91	121	2.90		0.01
	<b>Sub Total (E)</b>	<b>1400</b>	<b>785</b>	<b>937</b>	<b>90</b>	<b>8.21</b>	<b>342</b>	<b>8.10</b>		<b>0.11</b>
F. BBMB	Bhakra HPS (3*108+2*126+6*157)	1514	946	1324	632	22.67	945	22.71		-0.04
	Dehar HPS (6*165)	990	611	660	560	14.67	611	14.67		0.00
	Pong HPS (6*66)	396	58	192	0	1.63	68	1.40		0.23
	<b>Sub Total (F)</b>	<b>2900</b>	<b>1616</b>	<b>2176</b>	<b>1192</b>	<b>38.97</b>	<b>1624</b>	<b>38.78</b>		<b>0.19</b>
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	232	230	5.50	229	5.36		0.14
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1200	1200	28.64	1193	28.53		0.11
	Malana Stg-II HPS (2*50)	100	0	112	111	2.65	110	2.49		0.15
	Shree Cement TPS (2*150)	300	0	146	293	4.11	171	6.55		-2.44
	Budhil HPS(IPP) (2*35)	70	0	74	74	1.75	73	1.68		0.07
	Sub Total (G)	1662	0	1764	1908	42.65	1777	44.62		-1.97
	<b>H. Total Regional Entities (A-G)</b>	<b>25372</b>	<b>18571</b>	<b>17802</b>	<b>16031</b>	<b>387.40</b>	<b>16142</b>	<b>367.30</b>		<b>20.10</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	210	160	3.59	150
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	80	80	1.88	78
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	201	205	4.37	182
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	738	704	15.02	626
	Talwandi Saboo (1*660)	660	0	322	2.77	115
	<b>Thermal (Total)</b>	<b>4700</b>	<b>1229</b>	<b>1471</b>	<b>27.62</b>	<b>1151</b>
	Total Hydro	1000	833	786	19.35	806
	<b>Total Punjab</b>	<b>5700</b>	<b>2062</b>	<b>2257</b>	<b>46.97</b>	<b>1957</b>
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	0	0	0.23	9
	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	0	384	4.96	207
	<b>Thermal (Total)</b>	<b>4944</b>	<b>0</b>	<b>384</b>	<b>5.19</b>	<b>216</b>
	Total Hydro	62	24	27	0.61	25
	<b>Total Haryana</b>	<b>5006</b>	<b>24</b>	<b>411</b>	<b>5.80</b>	<b>242</b>
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	605	597	14.68
suratgarh TPS (6*250)		1500	395	395	9.71	404
Chabra TPS (4*250)		1000	187	437	6.16	257
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	189	186	4.67	195
RAPS A (NPC) (1*100+1*200)		300	143	145	3.40	142
Barsingar (NLC) (2*125)		250	171	166	3.81	159
Giral LTPS (2*125)		250	0	0	0.00	0
Rajwest LTPS (IPP) (8*135)		1080	290	951	17.43	726
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(1*600)		600	445	415	11.31	471
Kawai(Adani) (2*660)		1320	436	600	12.23	510
<b>Thermal (Total)</b>		<b>8276</b>	<b>2861</b>	<b>3892</b>	<b>83</b>	<b>3475</b>
Total Hydro		550	35	0	0.19	8
Wind power		3214	1330	213	10.79	450
Biomass		99	23	23	0.56	23
Solar		730	1	0	2.56	107
Renewable/Others (Total)		4043	1354	236	13.91	580
<b>Total Rajasthan</b>		<b>12869</b>	<b>4250</b>	<b>4128</b>	<b>97.49</b>	<b>4062</b>
UP		Anpara TPS (3*210+2*500)	1630	895	953	22.30
	Obra TPS (2*50+2*94+5*200)	1194	397	396	9.20	383
	Paricha TPS (2*110+2*220+2*250)	1140	748	781	16.10	671
	Panki TPS (2*105)	210	0	108	1.00	42
	Harduaganj TPS (1*60+1*105+2*250)	665	501	447	9.70	404
	Tanda TPS (NTPC) (4*110)	440	270	275	7.10	296
	Roza TPS (IPP) (4*300)	1200	189	572	7.80	325
	Anpara-C (IPP) (2*600)	1200	815	653	16.60	692
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	57	86	1.50	63
	Anpara-D(1*500)	500	0	0	0.00	0
	Lalitpur TPS(1*660)	660	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>9289</b>	<b>3872</b>	<b>4271</b>	<b>91</b>	<b>3804</b>
	Vishnuparyag HPS (IPP)(including Alakanada)	730	258	190	4.80	200
	Other Hydro	527	196	48	1.60	67
	Cogeneration	981	120	120	2.90	121
	<b>Total UP</b>	<b>11527</b>	<b>4446</b>	<b>4629</b>	<b>100.60</b>	<b>3992</b>
	Uttarakhand	Total Hydro	1398	977	371	15.92
<b>Total Uttarakhand</b>		<b>1398</b>	<b>977</b>	<b>371</b>	<b>15.92</b>	<b>663</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	35	36	0.82	34
	Pragati Gas Turbine (2x104+ 1x122)	330	144	142	3.50	146
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (6*250)	1370	0	0	0.00	0
	Badarpur TPS (NTPC) (3*95+2*210)	705	379	377	8.27	345
	<b>Thermal (Total)</b>	<b>2917</b>	<b>559</b>	<b>556</b>	<b>12.59</b>	<b>525</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>559</b>	<b>556</b>	<b>12.59</b>	<b>525</b>
HP	Baspa HPS (IPP) (2*100)	300	335	325	7.47	311
	Malana HPS (IPP) (2*43)	86	96	98	2.33	97
	Other Hydro	878	1026	895	12.92	538
	<b>Total HP</b>	<b>1264</b>	<b>1457</b>	<b>1318</b>	<b>22.72</b>	<b>947</b>
J & K	Baglihar HPS (IPP) (3*150)	450	450	450	10.80	450
	Other Hydro/IPP	560	191	192	4.68	195
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>641</b>	<b>642</b>	<b>15.48</b>	<b>645</b>
<b>Total State Control Area Generation</b>		<b>41881</b>	<b>14416</b>	<b>14312</b>	<b>317.58</b>	<b>13032</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>4719</b>	<b>2572</b>	<b>64.74</b>	<b>2698</b>
<b>Total Regional Availability(Gross)</b>		<b>67253</b>	<b>36936</b>	<b>32915</b>	<b>769.72</b>	<b>31872</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12369	10505	8867	223.29	9304
State Control Area Hydro	5811	4163	3192	80.66	3161
<b>Total Regional Hydro</b>	<b>18180</b>	<b>14668</b>	<b>12059</b>	<b>303.96</b>	<b>12465</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	MW	MW	Import	Export	Import	Export	
	Vindhyachal B/B	-250	-100	50	500	0.12	7.34	-7.21	
Gwalior-Agra (D/C)	2085	643	2085	539	16.98	0.00	16.98		
Zerda-Kankroli	-111	-187	0	336	0.00	5.26	-5.26		
Zerda-Bhinmal	-100	-116	0	285	0.00	3.58	-3.58		
Malanpur-Auraiya	-18	-62	0	133	0.00	1.67	-1.67		
Badod-Kota/Morak	-2	-32	60	-39	0.00	-0.31	0.31		
Mundra-Mohinderqarh(HVDC)	1488	1771	1808	0	38.14	0.00	38.14		
Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00		
<b>Sub Total WR</b>	<b>3092</b>	<b>1917</b>			<b>55.24</b>	<b>17.55</b>	<b>37.70</b>		
Pusauli Bypass	300	300	300	0	7.27	0.00	7.27		
MZP- GKP (D/C)	350	150	430	0	6.84	0.00	6.84		
Patna-Balia(D/C)	264	173	264	0	4.71	0.00	4.71		
B'Sharif-Balia (D/C)	145	10	185	9	2.09	0.00	2.09		
Pusauli-Balia	174	-33	174	84	0.31	0.00	0.31		
Gaya-Fatehpur (765 Kv)	98	-55	98	81	0.86	0.00	0.86		
Pusauli-Sahupuri	140	141	150	0	3.02	0.00	3.02		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-70	-42	0	46	0.00	0.88	-0.88		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sasaram - Fatehpur(765 KV)	-40	-143	10	160	0.00	1.33	-1.33		
Barh -GKP (D/C)	266	154	266	0	4.17	0.00	4.17		
<b>Sub Total ER</b>	<b>1627</b>	<b>655</b>			<b>29.26</b>	<b>2.21</b>	<b>27.04</b>		
<b>Total IR Exch</b>	<b>4719</b>	<b>2572</b>			<b>84.50</b>	<b>19.76</b>	<b>64.74</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
20.59	3.87	24.46	9.48	9.89	0.62	-2.89	1.66	-1.66

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
36.23	61.91	98.14	27.04	37.70	64.74	-9.19	-24.21	-33.40

**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	MW	MW	Import	Export	Import	Export	
	132 KV Tanakpur - Mahendamaagar	-25	-30	0	34	0	1	-0.54	

**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	0.68	4.53	38.34	62.86	23.91	7.86	0.94	NA

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.28	17.04	49.73	19.46	50.02	0.05	0.07	50.29	49.95

**VII. Voltage profile 400 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	411	04:02	403	21:25	0.0	0.0	0.0	0.0
Gorakhpur	400	415	05:31	397	20:44	0.0	0.0	0.3	0.0
Bareilly	400	418	08:00	396	20:00	0.0	0.0	47.7	0.0
Kanpur	400	420	06:01	400	19:46	0.0	0.0	0.0	0.0
Dadri	400	428	09:58	410	21:47	0.0	0.0	55.0	0.0
Ballabgarh	400	431	09:31	413	19:47	0.0	0.0	78.9	1.3
Bawana	400	428	09:51	412	19:46	0.0	0.0	62.8	0.0
Bassi	400	430	03:29	410	22:12	0.0	0.0	76.0	0.0
Hissar	400	422	03:31	408	19:44	0.0	0.0	8.2	0.0
Moga	400	420	03:28	406	20:34	0.0	0.0	0.0	0.0
Abdullapur	400	426	17:05	396	19:43	0.0	0.0	29.9	0.0
Nalagarh	400	422	03:03	414	19:45	0.0	0.0	15.8	0.0
Kishenpur	400	422	04:26	405	20:35	0.0	0.0	10.7	0.0
Wagoora	400	415	06:01	383	20:41	0.0	11.5	0.0	0.0

**VIII. Voltage profile 765 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	780	04:47	744	20:41	0.0	0.0	0.0	0.0
Balia	765	776	05:14	738	20:41	0.0	4.4	0.0	0.0
Moga	765	798	03:31	772	20:35	0.0	0.0	0.0	0.0
Agra	765	792	06:02	758	19:46	0.0	0.0	0.0	0.0
Bhiwani	765	809	09:24	783	19:43	0.0	0.0	61.0	0.0
Unnao	765	771	05:23	734	21:07	0.0	16.3	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	493.69	858.11	492.64	817.99	1691.68	780.13
Pong	426.72	384.05	407.75	425.81	400.45	230.85	914.15	111.74
Tehri	829.79	740.04	765.55	166.00	757.45	101.00	810.50	159.00
Koteshwar	612.50	598.50	609.53	4.34	611.28	5.25	159.00	191.96
Chamera-I	760.00	748.75	755.47	0.00	0.00	0.00	637.05	352.58
Rihand	268.22	252.98	843.60	163.30	837.20	83.40	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	523.66	10.78	519.83	11.55	758.33	419.07

\* 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	1108	335	0	940	312	0	25.71	9.31	35.02
Delhi	258	-248	-2	465	-433	-2	9.51	-7.21	2.29
Haryana	1382	5	0	1421	172	0	33.28	1.68	34.96
HP	-1108	-313	0	-905	-431	0	-23.35	-8.07	-31.42
J&K	-535	207	0	-434	222	0	-11.41	-0.44	-11.85
CHD	0	0	0	0	0	0	0.24	-0.03	0.21
Rajasthan	-489	578	2	-489	526	2	-11.73	15.61	3.87
UP	856	0	0	706	0	0	14.76	0.00	14.76
Uttarakhand	-55	0	0	-55	0	0	-1.32	0.00	-1.32
<b>Total</b>	<b>1418</b>	<b>564</b>	<b>0</b>	<b>1649</b>	<b>367</b>	<b>0</b>	<b>35.69</b>	<b>10.84</b>	<b>46.53</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1256	940	451	307	0	0
Delhi	767	64	0	-516	-2	-2
Haryana	1563	1339	230	-211	0	0
HP	-905	-1108	-280	-532	0	0
J&K	-434	-585	271	-304	0	0
CHD	30	0	0	-20	0	0
Rajasthan	-489	-489	891	518	2	2
UP	894	437	0	0	0	0
Uttarakhand	-55	-55	0	0	0	0

**XI. System Constraints:****XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 12.07.2015 :**

Rain in most part of NR.

**XIV. Synchronisation of new generating units :****XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :****XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**