

# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त महायक कंपनी)



## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

**Power Supply Position in Northern Region for 21.07.2015**  
Date of Reporting : 22.07.2015

### 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
43515	2258	45773	50.03	39644	2115	41759	50.21	991.2	60.77

\* 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	54.91	18.99		73.90	118.66	118.62	-0.05	192.52	0.00
Haryana	29.22	0.57		29.79	127.28	127.25	-0.04	157.04	0.00
Rajasthan	109.15	0.00	5.07	114.21	54.69	55.82	1.13	170.03	0.00
Delhi	14.06			14.06	86.92	85.49	-1.43	99.55	0.51
UP	120.53	11.91		132.44	138.21	138.87	0.66	271.30	51.85
Uttarakhand		24.30		24.30	14.20	14.30	0.09	38.59	0.00
HP		23.82		23.82	0.06	1.10	1.04	24.92	0.96
J & K		13.48	0.00	13.48	18.98	17.98	-1.00	31.46	7.45
Chandigarh				0.00	6.05	5.76	0.27	5.76	0.00
<b>Total</b>	<b>327.87</b>	<b>93.06</b>	<b>5.07</b>	<b>426.00</b>	<b>565.05</b>	<b>565.17</b>	<b>0.68</b>	<b>991.18</b>	<b>60.77</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	8783	0	-38	1347	7364	0	-93	1636	9046
Haryana	7357	0	-73	1583	6237	0	178	1727	7411
Rajasthan	6743	0	-174	-69	7090	0	192	-129	7667
Delhi	4353	0	-28	17	3926	0	48	194	4979
UP	11406	1845	-16	635	11321	1930	-280	890	12063
Uttarakhand	1906	0	184	45	1516	0	15	-57	1906
HP	1056	0	-47	-1329	948	0	49	-1515	1217
J&K	1652	413	165	-445	1051	185	-110	-783	1753
Chandigarh	261	0	-6	0	192	0	-20	0	291
<b>Total</b>	<b>43515</b>	<b>2258</b>	<b>-34</b>	<b>1784</b>	<b>39644</b>	<b>2115</b>	<b>-22</b>	<b>1964</b>	<b>44628</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	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1796	258	200	45.35	1890	42.01	3.35
	Rihand I STPS (2*500)	1000	859	927	834	20.94	873	19.88	1.07
	Rihand II STPS (2*500)	1000	460	524	378	11.30	471	10.48	0.82
	Rihand III STPS (2*500)	1000	953	1029	670	22.23	926	21.29	0.94
	Dadri I STPS (4*210)	840	800	557	546	14.14	589	13.78	0.35
	Dadri II STPS (2*490)	980	980	800	700	19.25	802	19.55	-0.30
	Unchahar I TPS (2*210)	420	400	441	298	8.64	360	8.64	0.01
	Unchahar II TPS (2*210)	420	200	201	135	4.02	168	4.19	-0.16
	Unchahar III TPS (1*220)	210	200	212	128	4.05	169	4.16	-0.11
	ISTPP (Jhajjar) (3*500)	1500	1500	941	609	17.08	712	18.38	-1.30
	Dadri GPS (4*130.19+2*154.51)	830	800	236	191	5.18	216	5.32	-0.14
	Anta GPS (3*88.71+1*153.2)	419	392	-2	-2	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	640	0	0	0.00	0	0.00	0.00
	Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01
	Unchahar Solar	10	3	0	0	0.03	1	0.06	-0.03
	Singrauli Solar	15	3	0	0	0.01	0	0.07	-0.06
	KHEP	800	0	816	816	19.62	818	19.40	0.22
	<b>Sub Total (A)</b>	<b>12112</b>	<b>9986</b>	<b>6941</b>	<b>5504</b>	<b>192</b>	<b>7994</b>	<b>187</b>	<b>5</b>
	B. NPC	NAPS (2*220)	440	406	402	407	8.82	368	9.74
RAPS- B (2*220)		440	318	436	210	7.70	321	7.62	0.08
RAPS- C (2*220)		440	364	426	434	9.20	384	8.74	0.46
<b>Sub Total (B)</b>		<b>1320</b>	<b>1088</b>	<b>1264</b>	<b>1051</b>	<b>25.73</b>	<b>1072</b>	<b>26.11</b>	<b>-0.38</b>
C. NHPC	Chamera I HPS (3*180)	540	534	546	531	13.01	542	12.82	0.20
	Chamera II HPS (3*100)	300	288	304	301	6.90	287	6.91	-0.01
	Chamera III HPS (3*77)	231	229	232	229	5.52	230	5.50	0.01
	Bairasuil HPS(3*60)	180	51	186	0	1.26	53	1.29	-0.03
	Salal-HPS (6*115)	690	653	665	556	15.96	665	15.66	0.30
	Tanakpur-HPS (3*40)	94	91	93	94	2.20	92	2.17	0.02
	Uri-I HPS (4*120)	480	475	473	469	11.49	479	11.40	0.09
	Uri-II HPS (4*60)	240	180	182	182	4.34	181	4.32	0.02
	Dhauliganga-HPS (4*70)	280	280	283	275	6.74	281	6.72	0.02
	Dulhasti-HPS (3*130)	390	386	390	394	9.29	387	9.26	0.03
	Sewa-II HPS (3*40)	120	119	130	120	3.02	126	2.86	0.16
	Parbati 3 (4*130)	520	118	0	0	0.00	0	3.02	-3.02
	<b>Sub Total (C)</b>	<b>4065</b>	<b>3403</b>	<b>3485</b>	<b>3151</b>	<b>80</b>	<b>3322</b>	<b>82</b>	<b>-2</b>
	D. SJVNL	NJPC (6*250)	1500	1605	1619	1605	31.51	1313	31.69
Rampur HEP (6*68.67)		412	410	452	442	8.72	363	8.73	0.00
<b>Sub Total (D)</b>		<b>1912</b>	<b>2015</b>	<b>2071</b>	<b>2047</b>	<b>40.23</b>	<b>1676</b>	<b>40.42</b>	<b>-0.19</b>
E. THDC	Tehri HPS (4*250)	1000	784	790	0	12.13	505	12.00	0.13
	Koteshwar HPS (4*100)	400	138	301	91	4.98	207	5.02	-0.05
	<b>Sub Total (E)</b>	<b>1400</b>	<b>922</b>	<b>1091</b>	<b>91</b>	<b>17.11</b>	<b>713</b>	<b>17.02</b>	<b>0.08</b>
F. BBMB	Bhakra HPS (3*108+2*126+5*157)	1361	1250	1322	1229	30.69	1279	29.99	0.70
	Dehar HPS (6*165)	990	594	660	580	14.52	605	14.26	0.26
	Pong HPS (6*66)	396	65	126	66	1.58	66	1.56	0.02
	<b>Sub Total (F)</b>	<b>2747</b>	<b>1909</b>	<b>2108</b>	<b>1875</b>	<b>46.80</b>	<b>1950</b>	<b>45.81</b>	<b>0.98</b>
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	231	232	5.51	230	5.37	0.14
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1200	1200	19.72	822	21.82	-2.10
	Malana Stg-II HPS (2*50)	100	0	111	111	2.63	110	2.48	0.15
	Shree Cement TPS (2*150)	300	0	298	290	6.95	290	7.13	-0.18
	Budhil HPS(IPP) (2*35)	70	0	74	73	1.75	73	1.68	0.07
	<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>1913</b>	<b>1906</b>	<b>36.56</b>	<b>1523</b>	<b>38.47</b>	<b>-1.91</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25219</b>	<b>19321</b>	<b>18872</b>	<b>15624</b>	<b>438.01</b>	<b>18250</b>	<b>437.00</b>	<b>1.02</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	840	690	17.33	722
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	100	80	1.95	81
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	719	635	15.22	634
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	295	362	10.10	421
	Talwandi Saboo (1*660)	660	671	332	10.31	430
	<b>Thermal (Total)</b>	<b>4700</b>	<b>2625</b>	<b>2099</b>	<b>54.91</b>	<b>2288</b>
	Total Hydro	1000	806	794	18.99	791
	<b>Total Punjab</b>	<b>5700</b>	<b>3431</b>	<b>2893</b>	<b>73.90</b>	<b>3079</b>
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	551	448	11.91	496
Faridabad GPS (NTPC)		432	0	0	0.00	0
RGTTP (Khedar) (IPP) (2*600)		1200	563	0	5.84	243
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	547	373	11.47	478
<b>Thermal (Total)</b>		<b>4944</b>	<b>1661</b>	<b>821</b>	<b>29.22</b>	<b>1218</b>
Total Hydro		62	19	25	0.57	24
<b>Total Haryana</b>		<b>5006</b>	<b>1680</b>	<b>846</b>	<b>29.79</b>	<b>1241</b>
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	855	834	20.37
	suratgarh TPS (6*250)	1500	568	938	19.71	821
	Chabra TPS (4*250)	1000	205	521	9.17	382
	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	26	196	3.83	160
	RAPS A (NPC) (1*100+1*200)	300	151	150	3.39	141
	Barsingar (NLC) (2*125)	250	94	95	2.12	88
	Giral LTPS (2*125)	250	60	63	1.18	49
	Rajwest LTPS (IPP) (8*135)	1080	562	648	13.46	561
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(1*600)	600	832	289	13.28	553
	Kawai(Adani) (2*660)	1320	986	850	22.63	943
	<b>Thermal (Total)</b>	<b>8276</b>	<b>4339</b>	<b>4584</b>	<b>109</b>	<b>4548</b>
	Total Hydro	550	0	0	0.00	0
	Wind power	3214	175	158	4.49	187
	Biomass	99	19	19	0.46	19
	Solar	730	0	0	0.12	5
	Renewable/Others (Total)	4043	194	177	5.07	211
	<b>Total Rajasthan</b>	<b>12869</b>	<b>4533</b>	<b>4761</b>	<b>114.21</b>	<b>4759</b>
	UP	Anpara TPS (3*210+2*500)	1630	1253	1194	29.30
Obra TPS (2*50+2*94+5*200)		1194	421	376	9.50	396
Paricha TPS (2*110+2*220+2*250)		1140	718	744	16.70	696
Panki TPS (2*105)		210	54	63	1.40	58
Harduaganj TPS (1*60+1*105+2*250)		665	486	463	11.30	471
Tanda TPS (NTPC) (4*110)		440	364	360	8.96	373
Roza TPS (IPP) (4*300)		1200	540	550	13.04	543
Anpara-C (IPP) (2*600)		1200	806	774	19.17	799
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	324	403	8.76	365
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>4966</b>	<b>4927</b>	<b>118</b>	<b>4922</b>
Vishnuparyag HPS (IPP)(including Alakanada)		730	264	259	6.12	255
Other Hydro		527	279	220	5.79	241
Cogeneration		981	100	100	2.40	100
<b>Total UP</b>		<b>11527</b>	<b>5609</b>	<b>5506</b>	<b>132.44</b>	<b>5263</b>
Uttarakhand	Total Hydro	1398	1023	1030	24.30	1012
	<b>Total Uttarakhand</b>	<b>1398</b>	<b>1023</b>	<b>1030</b>	<b>24.30</b>	<b>1012</b>
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	69	69	1.68	70
	Pragati Gas Turbine (2x104+ 1x122)	330	262	147	5.13	214
	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	365	323	7.25	302
	<b>Thermal (Total)</b>	<b>2917</b>	<b>696</b>	<b>539</b>	<b>14.06</b>	<b>586</b>
	<b>Total Delhi</b>	<b>2917</b>	<b>696</b>	<b>539</b>	<b>14.06</b>	<b>586</b>
HP	Baspa HPS (IPP) (2*100)	300	304	304	7.59	316
	Malana HPS (IPP) (2*43)	86	98	98	2.34	98
	Other Hydro	878	594	574	13.89	579
	<b>Total HP</b>	<b>1264</b>	<b>996</b>	<b>976</b>	<b>23.82</b>	<b>993</b>
J & K	Baqilhar HPS (IPP) (3*150)	450	450	450	10.80	450
	Other Hydro/IPP	560	112	112	2.68	112
	Gas/Diesel/Others	190	0	0	0.00	0
	<b>Total J &amp; K</b>	<b>1200</b>	<b>562</b>	<b>562</b>	<b>13.48</b>	<b>562</b>
<b>Total State Control Area Generation</b>		<b>41881</b>	<b>18530</b>	<b>17113</b>	<b>426.00</b>	<b>17495</b>
<b>J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]</b>			<b>1331.94</b>	<b>1238.12</b>	<b>137.67</b>	<b>5736</b>
<b>Total Regional Availability(Gross)</b>		<b>67100</b>	<b>38734</b>	<b>33976</b>	<b>1001.68</b>	<b>41482</b>

#### IV. Total Hydro Generation:

Regional Entities Hydro	12216	11113	9522	231.35	9639
State Control Area Hydro	5811	3685	3607	93.06	3623
<b>Total Regional Hydro</b>	<b>18027</b>	<b>14798</b>	<b>13129</b>	<b>324.41</b>	<b>13262</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 B/B	-250	-250	0	500	0.00	8.59	-8.59
Gwalior-Agra (D/C)	-2352	-2363	2796	0	55.42	0.00	55.42
Zerda-Kankroli	0	-75	31	227	0.00	2.60	-2.60
Zerda-Bhinmal	34	7	107	185	0.00	0.37	-0.37
Malanpur-Auraiya	2	18	0	0	0.32	0.00	0.32
Badod-Kota/Morak	0	137	79	10	0.00	1.84	-1.84
Mundra-Mohinderqarh(HVDC)	1499	1501	2204	0	34.71	0.00	34.71
Vindhychal - Rihand	486	373	498	0	10.26	0.00	10.26
<b>Sub Total WR</b>	<b>-581</b>	<b>-652</b>			<b>100.71</b>	<b>13.39</b>	<b>87.32</b>
Pusauli Bypass	400	400	400	0	9.16	0.00	9.16
MZP- GKP (D/C)	315	390	542	0	10.38	0.00	10.38
Patna-Balia(D/C)	401	277	497	0	8.87	0.00	8.87
B'Sharif-Balia (D/C)	36	137	187	0	3.10	0.00	3.10
Pusauli-Balia	45	121	160	0	1.10	0.00	1.10
Gaya-Fatehpur (765 Kv)	247	174	335	0	6.09	0.00	6.09
Pusauli-Sahupuri	174	174	207	0	3.90	0.00	3.90
K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
Son Ngr-Rihand	-36	-40	0	44	0.00	0.92	-0.92
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	12	14	136	30	1.72	0.00	1.72
Barh -GKP (D/C)	319	243	338	0	6.47	0.00	6.47
<b>Sub Total ER</b>	<b>1913</b>	<b>1890</b>			<b>51.27</b>	<b>0.92</b>	<b>50.35</b>
<b>Total IR Exch</b>	<b>1332</b>	<b>1238</b>			<b>151.98</b>	<b>14.32</b>	<b>137.67</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
32.02	3.70	35.72	10.94	9.19	0.00	-0.08	9.24	-9.24

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
55.91	93.65	149.55	50.35	87.32	137.67	-5.56	-6.33	-11.89

**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 - Mahendamaagar	-21	-30	0	34	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	0.00	0.05	8.48	43.79	62.71	21.59	6.74	0.56	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.26	15.04	49.79	23.21	50.01	0.05	0.07	50.28	49.96

**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	403	04:01	396	22:06	0.0	0.0	0.0	0.0
Gorakhpur	400	415	18:02	398	22:08	0.0	0.0	0.0	0.0
Bareilly	400	418	08:00	396	20:00	0.0	0.0	0.0	0.0
Kanpur	400	414	03:03	395	22:08	0.0	0.0	0.0	0.0
Dadri	400	412	03:07	395	11:20	0.0	0.0	0.0	0.0
Ballabgarh	400	419	03:05	398	16:53	0.0	0.0	0.0	0.0
Bawana	400	416	05:13	398	11:37	0.0	0.0	0.0	0.0
Bassi	400	423	04:01	403	20:08	0.0	0.0	6.4	0.0
Hissar	400	410	02:05	393	19:53	0.0	0.0	0.0	0.0
Moga	400	408	02:04	394	14:26	0.0	0.0	0.0	0.0
Abdullapur	400	407	23:56	396	19:17	0.0	1.0	0.0	0.0
Nalagarh	400	412	13:02	398	15:58	0.0	0.0	0.0	0.0
Kishenpur	400	414	03:05	402	21:04	0.0	0.0	0.0	0.0
Wagoora	400	410	05:02	388	21:00	0.0	3.8	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	760	18:03	733	21:08	0.0	40.0	0.0	0.0
Balia	765	766	18:02	736	22:09	0.0	2.4	0.0	0.0
Moga	765	785	02:06	756	22:03	0.0	0.0	0.0	0.0
Agra	765	781	03:12	738	21:07	0.0	1.7	0.0	0.0
Bhiwani	765	789	05:02	759	21:06	0.0	0.0	0.0	0.0
Unnao	765	762	04:18	727	22:08	0.0	37.7	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	499.13	1064.89	497.39	994.96	1770.45	1058.45
Pong	426.72	384.05	412.22	566.84	403.63	304.55	925.65	102.05
Tehri	829.79	740.04	779.40	314.66	777.20	285.56	671.15	355.00
Koteshwar	612.50	598.50	610.44	4.79	610.82	5.00	355.00	327.93
Chamera-I	760.00	748.75	753.85	0.00	0.00	0.00	667.17	352.58
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	523.43	10.78	519.75	11.51	441.89	420.97

\* 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	1417	219	0	1249	98	0	32.27	3.60	35.87
Delhi	308	-112	-2	339	-295	-27	8.25	-3.19	5.06
Haryana	1495	232	0	1359	224	0	34.93	2.20	37.12
HP	-1284	-231	0	-1081	-248	0	-27.56	-5.94	-33.50
J&K	-687	-96	0	-484	40	0	-13.06	-0.84	-13.89
CHD	0	0	0	0	0	0	0.24	0.28	0.52
Rajasthan	-494	364	2	-494	424	2	-11.86	12.06	0.20
UP	890	0	0	635	0	0	14.50	0.00	14.50
Uttarakhand	-57	0	0	-57	78	24	-1.37	0.74	-0.63
<b>Total</b>	<b>1588</b>	<b>376</b>	<b>0</b>	<b>1465</b>	<b>320</b>	<b>-1</b>	<b>36.33</b>	<b>8.90</b>	<b>45.23</b>

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1615	990	219	98	0	0
Delhi	650	65	91	-341	0	-27
Haryana	1677	1314	236	-102	0	0
HP	-1081	-1284	-222	-375	0	0
J&K	-484	-737	40	-96	0	0
CHD	29	0	34	0	0	0
Rajasthan	-494	-495	584	253	2	0
UP	900	445	0	0	0	0
Uttarakhand	-57	-57	78	0	24	0

**XI. System Constraints:****XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 21.07.2015 :**

Normal

**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 :**