

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिक की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 15.07.2016
Date of Reporting : 16.07.2016



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
44814	1471	46285	50.05	45706	659	46365	50.03	1068.4	10.60

*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	79.38	12.39		91.77	129.25	128.54	-0.72	220.31	0.00
Haryana	34.80	0.75		35.55	139.80	136.85	-2.95	172.39	0.00
Rajasthan	89.35	0.15	34.77	124.27	40.53	41.37	0.84	165.64	0.00
Delhi	19.54			19.54	87.30	87.67	0.37	107.21	0.10
UP	149.41	17.13		166.54	134.64	133.67	-0.97	300.20	0.00
Uttarakhand		10.66		10.66	24.14	27.46	3.31	38.12	1.17
HP		21.31		21.31	-0.51	2.10	2.61	23.41	2.98
J & K		22.45	0.00	22.45	11.08	12.44	1.36	34.89	6.35
Chandigarh				0.00	6.32	6.20	-0.11	6.20	0.00
Total	372.48	84.84	34.77	492.08	572.55	576.29	3.74	1068.37	10.60

* 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	9198	0	-107	2007	8651	0	-55	2316	9618	17:00	0
Haryana	7972	0	-19	2118	7562	0	-176	2313	8474	21:00	0
Rajasthan	6765	0	10	-294	7464	0	-15	37	7823	1:00	0
Delhi	4673	0	-92	523	4228	0	273	295	5159	17:00	4
UP	11547	1040	294	880	14682	0	147	1187	14685	2:00	0
Uttarakhand	1739	38	219	180	1514	0	6	17	1739	20:00	38
HP	1072	0	145	-1516	570	455	134	-1713	1245	11:00	0
J&K	1570	393	135	-734	818	205	-58	-1046	1654	21:00	414
Chandigarh	278	0	0	0	217	0	-29	0	313	15:00	0
Total	44814	1471	584	3164	45706	659	227	3407	47427	22:00	535

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

Diversity is: 1.07

III. Regional Entities :

Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1887	2058	2055	43.53	1814	42.76	0.77
Rihand I STPS (2*500)	1000	927	1005	874	20.90	871	20.94	-0.04
Rihand II STPS (2*500)	1000	943	1011	906	21.49	895	20.94	0.55
Rihand III STPS (2*500)	1000	943	972	1006	21.37	890	20.98	0.38
Dadri I STPS (4*210)	840	805	605	320	11.01	459	11.02	-0.01
Dadri II STPS (2*490)	980	960	1014	949	20.02	834	20.80	-0.78
Unchahar I TPS (2*210)	420	350	358	341	7.39	308	7.80	-0.41
Unchahar II TPS (2*210)	420	400	408	398	8.32	347	8.68	-0.35
Unchahar III TPS (1*210)	210	200	219	203	4.15	173	4.29	-0.14
ISTPP (Jhajjar) (3*500)	1500	1425	1248	933	22.80	950	23.65	-0.85
Dadri GPS (4*130.19+2*154.51)	830	781	325	270	7.73	322	8.29	-0.56
Anta GPS (3*88.71+1*153.2)	419	398	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	631	140	246	5.03	210	5.24	-0.21
Dadri Solar(5)	5	1	0	0	0.01	0	0.01	0.00
Unchahar Solar(10)	10	1	0	0	0.01	0	0.02	-0.01
Singrauli Solar(15)	15	1	0	0	0.01	1	0.02	-0.01
KHEP(4*200)	800	855	853	852	20.54	856	20.52	0.02
Sub Total (A)	12112	11508	10216	9353	214	8930	216	-1.64
B. NPC								
NAPS (2*220)	440	378	378	378	8.71	363	9.07	-0.36
RAPS- B (2*220)	440	190	202	202	4.23	176	4.56	-0.33
RAPS- C (2*220)	440	400	426	220	7.58	316	7.60	-0.02
Sub Total (B)	1320	968	1006	800	20.52	855	21.23	-0.71
C. NHPC								
Chamera I HPS (3*180)	540	540	539	543	12.92	538	12.81	0.10
Chamera II HPS (3*100)	300	301	309	305	7.27	303	7.22	0.05
Chamera III HPS (3*77)	231	231	234	236	5.60	233	5.55	0.05
Bairasuli HPS(3*60)	180	180	183	62	3.27	136	3.17	0.10
Salal-HPS (6*115)	690	636	676	664	15.76	657	15.28	0.47
Tanakpur-HPS (3*31.4)	94	73	92	95	1.85	77	1.74	0.11
Uri-I HPS (4*120)	480	377	415	363	9.47	395	9.07	0.40
Uri-II HPS (4*60)	240	217	199	214	5.39	225	5.22	0.17
Dhauliganga-HPS (4*70)	280	57	0	280	1.25	52	1.41	-0.16
Dulhasti-HPS (3*130)	390	376	390	389	9.12	380	9.03	0.09
Sewa-II HPS (3*40)	120	119	117	0	0.84	35	0.85	-0.01
Parbati 3 (4*130)	520	390	394	0	4.40	184	4.33	0.08
Sub Total (C)	4065	3498	3549	3150	77	3214	76	1.47
D. SJVNL								
NJPC (6*250)	1500	233	0	0	4.22	176	5.23	-1.01
Rampur HEP (6*68.67)	412	332	0	0	1.13	47	1.19	-0.06
Sub Total (D)	1912	564	0	0	5.35	223	6.42	-1.07
E. THDC								
Tehri HPS (4*250)	1000	716	726	543	13.59	566	13.50	0.09
Koteshwar HPS (4*100)	400	242	394	184	5.84	243	5.80	0.04
Sub Total (E)	1400	958	1120	727	19.42	809	19.30	0.12
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	1087	1309	905	26.15	1090	26.08	0.08
Dehar HPS (6*165)	990	599	825	560	14.57	607	14.37	0.20
Pong HPS (6*66)	396	114	216	53	2.81	117	2.74	0.07
Sub Total (F)	2765	1800	2350	1518	43.53	1814	43.19	0.34
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	222	200	4.50	188	4.32	0.18
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	0	1100	7.62	317	7.70	-0.08
Malana Stg-II HPS (2*50)	100	0	112	57	1.85	77	1.75	0.09
Shree Cement TPS (2*150)	300	0	288	253	6.33	264	6.33	0.00
Budhil HPS(IPP) (2*35)	70	0	70	69	1.62	68	1.65	-0.03
Sub Total (G)	1662	0	692	1679	21.92	913	21.76	0.16
H. Total Regional Entities (A-G)	25237	19296	18934	17227	402.18	16758	403.52	-1.34

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	930	830	20.37	849	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	270	270	6.20	258	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	417	407	9.42	392	
	Goindwal(GVK) (2*270)	540	0	0	-0.06	-2	
	Rajpura (2*700)	1400	1320	1120	27.65	1152	
	Talwandi Saboo (3*660)	1980	614	850	15.81	659	
	Thermal (Total)	6560	3551	3477	79.38	3308	
	Total Hydro	1000	532	498	12.39	516	
	Total Punjab	7560	4083	3975	91.77	3824	
	Haryana	Panipat TPS (2*210+2*250)	920	204	408	5.81	242
DCRTPP (Yamuna nagar) (2*300)		600	470	466	11.43	476	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	306	320	7.64	318	
RGTPP (khedar) (IPP) (2*600)		1200	395	523	9.92	413	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1375	1717	34.80	1450	
Total Hydro		62	39	23	0.75	31	
Total Haryana		4559	1414	1740	35.55	1481	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	776	817	19.24	802
	suratgarh TPS (6*250)	1500	194	183	4.46	186	
	Chabra TPS (4*250)	1000	559	771	14.88	620	
	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	166	167	3.96	165	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	1112	107	2.54	106	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	699	602	12.23	510	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	408	460	9.83	409	
	Kawai(Adani) (2*660)	1320	913	915	22.21	925	
	Thermal (Total)	8876	4827	4022	89	3723	
	Total Hydro	550	11	0	0.15	6	
	Wind power	3214	1050	1577	34.55	1439	
	Biomass	99	9	9	0.22	9	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	1059	1586	34.77	1449	
	Total Rajasthan	13469	5897	5608	124.27	5178	
	UP	Anpara TPS (3*210+2*500)	1630	1186	1374	30.77	1282
Obra TPS (2*50+2*94+5*200)		1194	387	365	9.20	383	
Paricha TPS (2*110+2*220+2*250)		1160	460	708	15.20	633	
Panki TPS (2*105)		210	122	135	2.90	121	
Harduaganj TPS (1*60+1*105+2*250)		665	396	502	11.20	467	
Tanda TPS (NTPC) (4*110)		440	207	286	5.94	247	
Roza TPS (IPP) (4*300)		1200	756	1107	20.75	865	
Anpara-C (IPP) (2*600)		1200	720	1073	21.29	887	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	283	405	7.48	312	
Anpara-D(2*500)		1000	0	213	3.20	133	
Lalitpur TPS(3*660)		1980	354	487	9.43	393	
Bara(2*660)		1320	436	539	10.85	452	
Thermal (Total)		12449	5307	7194	148	6175	
Vishnuparyag HPS (IPP)(4*110)		440	395	0	6.77	282	
Alaknanda(4*82.5)		330	343	346	8.17	340	
Other Hydro		527	50	191	2.20	92	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	6145	7781	167	6939	
Uttarakhand		Total Hydro	1398	306	520	10.66	444
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	306	520	11	444	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	120	110	2.52	105	
	Pragati Gas Turbine (2x104+ 1x122)	330	186	150	4.03	168	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	254	253	6.04	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	319	322	6.96	290	
	Thermal (Total)	2917	879	835	19.54	814	
	Total Delhi	2917	879	835	19.54	814	
HP	Baspa HPS (IPP) (3*100)	300	322	0	5.84	243	
	Malana HPS (IPP) (2*43)	86	105	104	2.50	104	
	Other Hydro	878	549	541	12.96	540	
	Total HP	1264	976	645	21.31	888	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	732	732	17.57	732	
	Other Hydro/IPP	560	200	210	4.89	204	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	932	942	22.45	936	
Total State Control Area Generation		47619	20632	22046	492.08	20503	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			9047	8239	192.34	8014	
Total Regional Availability(Gross)		72856	48612	47512	1086.61	45275	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	8207	7604	179.93	7497
State Control Area Hydro		7106	3584	3165	84.84	3535
Total Regional Hydro		19340	11791	10769	264.77	11032

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)	-250	-100	100	250	0.16	4.32	-4.16
765 KV Gwalior-Agra (D/C)	2810	2175	2880	0	49.73	0.00	49.73
400 KV Zerda-Kankroli	-67	-124	0	300	0.00	3.70	-3.70
400 KV Zerda-Bhinmal	-68	-135	0	269	0.00	3.08	-3.08
220 KV Auraiya-Malanpur	-23	-35	0	92	0.00	0.71	-0.71
220 KV Badod-Kota/Morak	-2	99	75	28	1.34	0.00	1.34
Mundra-Mohinderghar(HVDC Bipole)	2196	2197	2505	0.00	54.15	0.00	54.15
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	978	923	621	0	24.55	0.00	24.55
Sub Total WR	5574	5000			129.92	11.81	118.11
Pusauli Bypass/HVDC	200	200	200	0	4.82	0.00	4.82
400 KV MZP- GKP (D/C)	358	454	614	0	10.83	0.00	10.83
400 KV Patna-Balia(D/C) X 2	839	707	908	0	18.45	0.00	18.45
400 KV B'Sharif-Balia (D/C)	94	86	171	0	2.15	0.00	2.15
765 KV Gaya-Balia	307	285	330	0	3.15	0.00	3.15
765 KV Gaya-Varanasi (D/C)	684	549	740	0	12.44	0.00	12.44
220 KV Pusauli-Sahupuri	164	220	243	0	4.68	0.00	4.68
132 KV K'nasa-Sahupuri	-36	-34	0	40	0.00	0.71	-0.71
132 KV Son Ngr-Rihand	-30	-29	0	30	0.00	0.48	-0.48
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-127	-163	0	181	0.00	2.99	-2.99
400 KV Barh -GKP (D/C)	520	464	550	0	10.47	0.00	10.47
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2973	2739			66.99	4.18	62.80
+/- 800 KV BiswanathChariali-Agra	500	500	500	0.00	11.43	0.00	11.43
Sub Total NER	500	500			11.43	0.00	11.43
Total IR Exch	9047	8239			208.34	15.99	192.34

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
38.74	3.71	42.45	9.87	30.54	10.77	1.97	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
63.09	123.14	186.22	74.23	118.11	192.34	11.15	-5.03	6.12

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	-25	0	30	0	1	-0.53

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	0.31	7.87	54.79	73.18	14.88	4.14	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)		
50.19	6.02	49.78	9.15	49.99	0.042	0.064	0.00	0.00	26.82

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	409	8:57	401	22:27	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	8:01	397	22:33	0.0	0.0	1.4	0.0	1.4
Bareilly(PG)400kV	400	419	6:44	396	12:48	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	6:02	397	0:22	0.0	0.0	0.0	0.0	0.0
Dadri	400	414	6:02	397	0:18	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	422	6:03	399	12:17	0.0	0.0	0.5	0.0	0.5
Bawana	400	417	6:02	399	0:16	0.0	0.0	0.0	0.0	0.0
Bassi	400	424	6:02	400	22:18	0.0	0.0	2.4	0.0	2.4
Hissar	400	414	6:02	394	22:19	0.0	0.0	0.0	0.0	0.0
Moga	400	413	6:02	396	14:47	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	410	6:01	394	12:46	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	417	6:02	399	14:48	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	409	5:32	396	13:48	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	4:12	394	10:03	0.0	0.0	0.0	0.0	0.0
Amritsar	400	418	6:01	159	14:56	0.3	0.3	0.0	0.0	0.3
Kashipur	400	419	6:02	408	12:18	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	416	6:19	402	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	410	6:02	387	12:18	0.0	2.4	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	787	6:05	746	22:36	0.0	0.0	0.0	0.0	0.0
Balia	765	796	6:58	754	22:36	0.0	0.0	0.0	0.0	0.0
Moga	765	794	6:03	760	22:19	0.0	0.0	0.0	0.0	0.0
Agra	765	796	6:05	760	0:17	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	798	6:02	763	22:10	0.0	0.0	0.0	0.0	0.0
Unnao	765	780	7:58	729	22:38	0.0	16.4	0.0	0.0	0.0
Lucknow	765	800	6:56	756	22:34	0.0	0.0	0.0	0.0	0.0
Meerut	765	804	6:02	764	22:18	0.0	0.0	2.4	0.0	2.4
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	792	6:55	750	0:18	0.0	0.0	0.0	0.0	0.0
Anta	765	798	6:07	769	0:22	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	6:02	765	22:10	0.0	0.0	0.0	0.0	0.0

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 ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	482.10	511.55	495.46	926.03	1172.29	960.25
Pong	426.72	384.05	396.37	146.09	408.74	454.47	896.91	213.51
Tehri	829.79	740.04	770.10	208.27	768.15	190.00	848.66	421.00
Koteswar	612.50	598.50	609.85	4.49	610.68	4.69	421.00	384.79
Chamera-I	760.00	748.75	753.08	0.00	0.00	0.00	342.83	353.39
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	505.12	3.42	523.29	10.76	262.08	155.73

* 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	1734	582	0	1585	422	0	39.13	13.19	52.32
Delhi	518	-222	0	814	-291	0	18.63	-5.62	13.01
Haryana	1950	362	0	1761	357	0	41.27	3.08	44.35
HP	-1504	-208	0	-1244	-272	0	-31.03	-5.75	-36.78
J&K	-995	-50	0	-719	-15	0	-19.85	-0.87	-20.73
CHD	0	0	0	0	0	0	0.36	0.00	0.36
Rajasthan	-523	560	0	-422	127	0	-8.98	11.83	2.85
UP	1187	0	0	880	0	0	19.52	0.00	19.52
Uttarakhand	-444	461	0	-450	631	0	-10.51	11.90	1.39
Total	1923	1484	0	2206	959	0	48.54	27.76	76.29

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1834	1496	599	421	0	0
Delhi	938	518	163	-528	0	0
Haryana	2007	1421	391	-245	0	0
HP	-1045	-1505	-102	-418	0	0
J&K	-694	-1096	0	-151	0	0
CHD	44	0	0	0	0	0
Rajasthan	-270	-523	562	-179	0	0
UP	1198	606	0	0	0	0
Uttarakhand	-359	-453	633	410	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	2.43%

(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:

0.00

XIV. Weather Conditions For 15.07.2016 :

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.