

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारशिष्ट की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 23.07.2016
Date of Reporting : 24.07.2016



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
47020	887	47908	50.05	49750	344	50094	50.03	1117.3	9.94

* 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	76.43	13.90		90.33	127.31	125.49	-1.81	215.82	0.00
Haryana	37.28	1.01		38.28	145.39	144.27	-1.12	182.55	0.00
Rajasthan	109.53	0.00	22.72	132.25	75.15	80.14	4.99	212.38	2.41
Delhi	22.13			22.13	90.86	89.08	-1.78	111.21	0.24
UP	130.57	20.40		150.97	144.14	144.69	0.55	295.66	0.11
Uttarakhand		18.42		18.42	16.43	16.92	0.49	35.35	0.26
HP		23.15		23.15	1.67	3.12	1.45	26.26	0.00
J & K		22.48	0.00	22.48	14.34	10.10	-4.24	32.58	6.92
Chandigarh				0.00	5.95	5.47	-0.48	5.47	0.00
Total	375.94	99.35	22.72	498.01	621.23	619.27	-1.96	1117.28	9.94

* 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	8904	0	-294	1606	10056	0	-41	1857	10376	2:00	0
Haryana	8166	0	-69	1803	8524	0	251	2114	8820	21:00	0
Rajasthan	8029	20	-14	288	9337	110	188	344	9512	6:00	217
Delhi	4426	0	-220	492	5017	12	84	355	5606	1:00	0
UP	12785	410	230	581	13399	0	55	663	13481	1:00	770
Uttarakhand	1729	40	128	73	1298	0	-28	-54	1729	20:00	40
HP	1069	0	38	-1561	988	0	71	-1690	1205	10:00	0
J&K	1669	417	-63	-668	889	222	-342	-729	1669	20:00	417
Chandigarh	244	0	-21	-20	240	0	0	0	264	1:00	0
Total	47020	887	-285	2594	49750	344	239	2862	51209	1:00	1088

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

Diversity is: 1.03

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 [DG:(+ve), UG:(-ve)]	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1854	2036	2043	42.78	1782	42.17	0.61	
Rihand I STPS (2*500)	1000	464	508	502	10.79	450	10.64	0.15	
Rihand II STPS (2*500)	1000	943	1029	1006	21.66	902	21.35	0.30	
Rihand III STPS (2*500)	1000	943	1014	940	21.63	901	21.23	0.40	
Dadri I STPS (4*210)	840	805	449	474	10.21	426	10.09	0.12	
Dadri II STPS (2*490)	980	960	849	791	17.29	721	18.31	-1.02	
Unchahar I TPS (2*210)	420	350	357	325	6.61	275	6.97	-0.36	
Unchahar II TPS (2*210)	420	400	432	354	7.30	304	7.75	-0.45	
Unchahar III TPS (1*210)	210	200	215	185	3.63	151	3.82	-0.19	
ISTPP (Jhajjar) (3*500)	1500	1425	970	929	21.23	885	21.13	0.10	
Dadri GPS (4*130.19+2*154.51)	830	777	376	340	7.39	308	7.98	-0.58	
Anta GPS (3*88.71+1*153.2)	419	400	0	0	0.00	0	0.00	0.00	
Auraiya GPS (4*111.19+2*109.30)	663	632	153	127	3.30	137	3.60	-0.30	
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00	
Unchahar Solar(10)	10	2	0	0	0.05	2	0.04	0.01	
Singrauli Solar(15)	15	2	0	0	0.04	2	0.04	0.00	
KHEP(4*200)	800	855	853	853	20.50	854	20.52	-0.02	
Sub Total (A)	12112	11013	9241	8869	194	8102	196	-1.23	
B. NPC									
NAPS (2*220)	440	385	423	419	9.31	388	9.24	0.07	
RAPS- B (2*220)	440	181	182	182	4.36	182	4.34	0.02	
RAPS- C (2*220)	440	410	437	438	9.43	393	9.84	-0.41	
Sub Total (B)	1320	976	1042	1039	23.11	963	23.42	-0.32	
C. NHPC									
Chamera I HPS (3*180)	540	540	545	183	10.71	446	10.66	0.06	
Chamera II HPS (3*100)	300	301	307	303	7.09	296	7.03	0.07	
Chamera III HPS (3*77)	231	229	229	148	4.40	183	4.39	0.01	
Bairasuli HPS(3*60)	180	180	185	0	1.87	78	1.80	0.07	
Salal-HPS (6*115)	690	429	679	0	10.76	448	10.30	0.46	
Tanakpur-HPS (3*31.4)	94	86	96	97	2.23	93	2.04	0.19	
Uri-I HPS (4*120)	480	367	419	409	9.05	377	8.83	0.22	
Uri-II HPS (4*60)	240	204	227	185	5.07	211	4.91	0.16	
Dhauliganga-HPS (4*70)	280	249	282	280	5.89	246	5.94	-0.05	
Dulhasti-HPS (3*130)	390	381	393	392	9.23	385	9.14	0.09	
Sewa-II HPS (3*40)	120	119	127	0	0.73	30	0.70	0.03	
Parbati 3 (4*130)	520	385	391	0	3.12	130	3.06	0.05	
Sub Total (C)	4065	3471	3879	1996	70	2923	69	1.37	
D. SJVNL									
NJPC (6*250)	1500	1605	1626	1618	38.53	1605	38.52	0.01	
Rampur HEP (6*68.67)	412	442	451	451	10.81	450	10.61	0.20	
Sub Total (D)	1912	2047	2077	2069	49.33	2055	49.13	0.20	
E. THDC									
Tehri HPS (4*250)	1000	816	830	820	14.66	611	14.50	0.16	
Koteshwar HPS (4*100)	400	271	398	188	6.44	268	6.40	0.04	
Sub Total (E)	1400	1087	1228	1008	21.09	879	20.90	0.19	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1092	1319	915	26.49	1104	26.21	0.28	
Dehar HPS (6*165)	990	600	825	560	14.49	604	14.40	0.09	
Pong HPS (6*66)	396	82	174	0	1.97	82	1.97	-0.01	
Sub Total (F)	2765	1774	2318	1475	42.94	1789	42.58	0.36	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	141	198	3.22	134	3.22	0.00	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.21	1092	26.08	0.13	
Malana Stg-II HPS (2*50)	100	0	111	75	1.96	82	1.90	0.07	
Shree Cement TPS (2*150)	300	0	147	145	3.47	145	3.55	-0.08	
Budhil HPS(IPP) (2*35)	70	0	45	70	0.13	6	1.73	-1.59	
Sub Total (G)	1662	0	1544	1589	34.99	1458	36.47	-1.48	
H. Total Regional Entities (A-G)	25237	20368	21329	18046	436.06	18169	436.97	-0.91	

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	680	1040	18.62	776	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	190	190	4.22	176	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	411	598	10.13	422	
	Goindwal(GVK) (2*270)	540	246	246	4.82	201	
	Rajpura (2*700)	1400	1220	1320	25.16	1048	
	Talwandi Saboo (3*660)	1980	500	1100	13.48	562	
	Thermal (Total)	6560	3247	4494	76.43	3185	
	Total Hydro	1000	676	540	13.90	579	
	Total Punjab	7560	3923	5034	90.33	3764	
	Haryana	Panipat TPS (2*210+2*250)	920	407	403	9.64	402
DCRTPP (Yamuna nagar) (2*300)		600	459	465	11.47	478	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	327	306	7.18	299	
RGTPP (khedar) (IPP) (2*600)		1200	381	378	8.99	375	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1574	1552	37.28	1553	
Total Hydro		62	42	40	1.01	42	
Total Haryana		4559	1616	1592	38.28	1595	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	872	502	16.22	676
	suratgarh TPS (6*250)	1500	311	206	6.25	260	
	Chabra TPS (4*250)	1000	806	865	20.30	846	
	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	135	136	3.51	146	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	112	113	2.61	109	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	800	797	19.01	792	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	504	537	13.05	544	
	Kawai(Adani) (2*660)	1320	1008	1205	28.57	1190	
	Thermal (Total)	8876	4548	4361	110	4564	
	Total Hydro	550	0	0	0.00	0	
	Wind power	3214	244	1700	22.14	923	
	Biomass	99	14	14	0.33	14	
	Solar	730	1	0	0.25	10	
	Renewable/Others (Total)	4043	259	1714	22.72	947	
	Total Rajasthan	13469	4807	6075	132.25	5510	
	UP	Anpara TPS (3*210+2*500)	1630	1240	1316	31.10	1296
Obra TPS (2*50+2*94+5*200)		1194	300	378	8.30	346	
Paricha TPS (2*110+2*220+2*250)		1160	690	670	15.90	663	
Panki TPS (2*105)		210	126	122	3.10	129	
Harduaganj TPS (1*60+1*105+2*250)		665	383	448	8.90	371	
Tanda TPS (NTPC) (4*110)		440	275	265	6.07	253	
Roza TPS (IPP) (4*300)		1200	801	842	17.60	733	
Anpara-C (IPP) (2*600)		1200	1035	1086	23.80	992	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	206	221	4.20	175	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	376	538	10.40	433	
Thermal (Total)		12449	5432	5886	129	5391	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438	
Alaknanda(4*82.5)		330	342	340	7.50	313	
Other Hydro		527	147	89	2.40	100	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	6406	6800	151	6291	
Uttarakhand		Total Hydro	1398	794	790	18.42	768
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	794	790	18	768	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	102	126	2.85	119	
	Pragati Gas Turbine (2x104+ 1x122)	330	261	264	6.40	267	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	254	252	6.05	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	322	319	6.84	285	
	Thermal (Total)	2917	939	961	22.13	922	
	Total Delhi	2917	939	961	22.13	922	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.91	330	
	Malana HPS (IPP) (2*43)	86	87	75	1.73	72	
	Other Hydro	878	557	572	13.50	563	
	Total HP	1264	974	977	23.15	964	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733	
	Other Hydro/IPP	560	200	210	4.89	204	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	933	943	22.48	937	
Total State Control Area Generation		47619	20392	23172	498.01	20750	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8920.98	10323.23	207.79	8658	
Total Regional Availability(Gross)		72856	50642	51541	1141.86	47578	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11707	8775	235.41	9809
State Control Area Hydro		7106	4343	4154	99.35	4139
Total Regional Hydro		19340	16050	12929	334.76	13948

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)	-250	-50	50	250	0.01	3.10	-3.09
765 KV Gwalior-Agra (D/C)	2528	2776	2871	0	52.71	0.00	52.71
400 KV Zerda-Kankroli	111	72	114	244	0.00	0.78	-0.78
400 KV Zerda-Bhinmal	154	78	221	210	0.55	0.00	0.55
220 KV Auraiya-Malanpur	-29	-29	0	84	0.00	0.95	-0.95
220 KV Badod-Kota/Morak	66	185	107	0	2.44	0.00	2.44
Mundra-Mohinderghar(HVDC Bipole)	2503	2502	2507	0.00	60.45	0.00	60.45
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1023	1037	1065	0	19.81	0.00	19.81
Sub Total WR	6106	6571			135.97	4.83	131.14
Pusauli Bypass/HVDC	-374	-185	0	415	0.00	3.78	-3.78
400 KV MZP- GKP (D/C)	208	468	494	0	8.00	0.00	8.00
400 KV Patna-Balia(D/C) X 2	661	911	933	0	19.65	0.00	19.65
400 KV B'Sharif-Balia (D/C)	166	237	257	0	5.03	0.00	5.03
765 KV Gaya-Balia	300	318	331	0	2.94	0.00	2.94
765 KV Gaya-Varanasi (D/C)	526	620	644	0	12.45	0.00	12.45
220 KV Pusauli-Sahupuri	178	239	258	0	4.83	0.00	4.83
132 KV K'nasa-Sahupuri	-32	-20	0	32	0.00	0.25	-0.25
132 KV Son Ngr-Rihand	-24	-20	0	26	0.00	0.47	-0.47
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	64	50	179	0	1.87	0.00	1.87
400 KV Barh -GKP (D/C)	492	558	564	0	11.45	0.00	11.45
400 kV B'Sharif - Varanasi (D/C)	150	76	176	0	3.04	0.00	3.04
Sub Total ER	2315	3252			69.28	4.50	64.77
+/- 800 KV BiswanathCharialli-Agra	500	500	500	0.00	11.88	0.00	11.88
Sub Total NER	500	500			11.88	0.00	11.88
Total IR Exch	8921	10323			217.12	9.33	207.79

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
43.48	3.30	46.78	10.72	16.76	13.52	1.31	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
71.01	141.18	212.19	76.65	131.14	207.79	5.64	-10.04	-4.40

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	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-29	-21	0	32	0	0	-0.46

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	0.06	4.48	44.80	82.19	11.67	1.74	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	13.03	49.73	19.41	49.99	0.030	50.16	49.90	17.81	

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	412	8:18	405	0:18	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	7:08	402	0:05	0.0	0.0	8.1	0.0	8.1
Bareilly(PG)400kV	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	7:09	401	14:50	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	6:57	399	14:50	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	424	8:07	400	14:50	0.0	0.0	8.1	0.0	8.1
Bawana	400	418	7:01	400	14:50	0.0	0.0	0.0	0.0	0.0
Bassi	400	414	6:01	394	0:01	0.0	0.0	0.0	0.0	0.0
Hissar	400	415	8:03	395	14:50	0.0	0.0	0.0	0.0	0.0
Moga	400	412	7:05	396	19:44	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	416	8:03	400	0:00	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	422	7:04	403	0:00	0.0	0.0	4.2	0.0	4.2
Kishenpur	400	411	8:00	400	0:03	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	4:29	393	20:12	0.0	0.0	0.0	0.0	0.0
Amritsar	400	420	7:04	402	0:00	0.0	0.0	0.0	0.0	0.0
Kashipur	400	422	6:59	410	14:57	0.0	0.0	6.3	0.0	6.3
Hamirpur	400	419	8:00	402	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	420	7:04	393	15:54	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	796	8:21	761	19:45	0.0	0.0	0.0	0.0	0.0
Balia	765	802	8:19	767	0:36	0.0	0.0	0.6	0.0	0.6
Moga	765	800	7:04	767	19:44	0.0	0.0	0.0	0.0	0.0
Agra	765	793	8:03	758	19:40	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	803	6:59	765	14:49	0.0	0.0	1.6	0.0	1.6
Unnao	765	783	7:09	741	13:52	0.0	0.0	0.0	0.0	0.0
Lucknow	765	806	7:09	767	0:34	0.0	0.0	11.4	0.0	11.4
Meerut	765	811	7:04	767	14:50	0.0	0.0	10.5	0.0	10.5
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	798	7:04	744	15:54	21.1	21.1	0.0	0.0	21.1
Anta	765	786	18:05	764	14:43	0.0	0.0	0.0	0.0	0.0
Phagi	765	787	6:02	757	14:55	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	484.91	585.65	500.14	1101.35	1185.80	941.96
Pong	426.72	384.05	399.18	203.01	413.04	600.05	410.08	141.39
Tehri	829.79	740.04	783.00	358.90	781.65	340.00	662.31	396.00
Koteshwar	612.50	598.50	609.56	4.35	609.23	4.95	396.00	424.04
Chamera-I	760.00	748.75	751.18	0.00	0.00	0.00	217.79	293.44
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	1149.00	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	506.42	6.20	523.11	10.44	329.10	322.12

* 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	1407	450	0	1214	392	0	30.96	12.25	43.21
Delhi	534	-179	0	709	-218	0	17.23	-4.91	12.33
Haryana	1748	366	0	1452	351	0	37.69	5.04	42.74
HP	-1492	-197	0	-1218	-344	0	-31.34	-6.41	-37.75
J&K	-729	0	0	-653	-15	0	-17.07	-0.25	-17.32
CHD	0	0	0	0	-20	0	0.35	-0.19	0.16
Rajasthan	-194	539	0	-194	482	0	-4.66	12.53	7.87
UP	663	0	0	581	0	0	14.10	0.00	14.10
Uttarakhand	-347	294	0	-347	420	0	-8.40	8.01	-0.39
Total	1590	1272	0	1545	1049	0	38.86	26.08	64.94

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1433	1206	670	391	0	0
Delhi	836	534	254	-517	0	0
Haryana	1833	1405	392	-219	0	0
HP	-1204	-1493	-172	-465	0	0
J&K	-628	-779	0	-15	0	0
CHD	44	0	0	-30	0	0
Rajasthan	-194	-194	543	414	0	0
UP	678	502	0	0	0	0
Uttarakhand	-346	-360	420	294	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	19.44%
ER	0.00%
Simultaneous	23.96%

(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 23.07.2016 :

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.