

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 07.07.2016
Date of Reporting : 08.07.2016



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
48984	978	49962	50.08	46130	363	46492	50.03	1132.3	9.33

*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 *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	82.89	13.85		96.74	114.99	115.45	0.46	212.19	0.00
Haryana	31.38	0.85		32.23	150.03	149.32	-0.71	181.56	0.24
Rajasthan	92.50	0.00	36.60	129.10	61.84	62.66	0.82	191.76	0.00
Delhi	20.95			20.95	91.65	91.67	0.02	112.61	0.03
UP	140.68	22.40		163.08	164.75	167.72	2.97	330.79	0.00
Uttarakhand		15.87		15.87	20.74	23.52	2.78	39.39	0.59
HP		20.53		20.53	2.76	5.53	2.77	26.05	0.59
J & K		17.58	0.00	17.58	18.10	13.97	-4.13	31.56	7.89
Chandigarh				0.00	6.32	6.43	0.11	6.43	0.00
Total	368.39	91.08	36.60	496.07	631.18	636.27	5.09	1132.34	9.33

* 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	9418	0	-28	1584	8017	0	-82	1849	9532	21:00	0
Haryana	8108	500	-56	2120	7809	0	67	2169	8256	21:00	635
Rajasthan	7489	0	-216	79	8065	0	158	85	8714	24:00	0
Delhi	4563	0	-71	863	4819	0	-9	653	5685	24:00	0
UP	14654	0	104	805	13708	90	251	1144	14748	21:00	0
Uttarakhand	1792	75	165	95	1540	0	145	-42	1877	21:00	75
HP	1061	0	55	-1487	928	20	75	-1661	1269	11:00	0
J&K	1612	403	57	-664	1010	253	-252	-876	1668	21:00	417
Chandigarh	287	0	5	0	233	0	5	0	320	15:00	0
Total	48984	978	15	3394	46130	363	357	3320	50665	21:00	1127

\$ 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	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1886	1942	2043	45.19	1883	45.80	-0.61	
Rihand I STPS (2*500)	1000	882	900	950	21.02	876	20.97	0.04	
Rihand II STPS (2*500)	1000	946	1032	1027	22.90	954	22.25	0.65	
Rihand III STPS (2*500)	1000	943	1007	911	22.85	952	22.73	0.12	
Dadri I STPS (4*210)	840	805	598	552	12.38	516	12.87	-0.49	
Dadri II STPS (2*490)	980	960	956	790	19.00	792	20.17	-1.17	
Unchahar I TPS (2*210)	420	346	360	340	7.53	314	8.12	-0.59	
Unchahar II TPS (2*210)	420	400	438	389	8.43	351	8.91	-0.48	
Unchahar III TPS (1*210)	210	200	218	170	4.28	178	4.62	-0.34	
ISTPP (Jhajjar) (3*500)	1500	1400	974	637	18.19	758	18.88	-0.68	
Dadri GPS (4*130.19+2*154.51)	830	788	380	390	8.15	340	8.27	-0.12	
Anta GPS (3*88.71+1*153.2)	419	398	0	0	0.00	0	0.03	-0.03	
Auraiya GPS (4*111.19+2*109.30)	663	632	0	0	0.00	0	0.00	0.00	
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00	
Unchahar Solar(10)	10	2	0	0	0.04	2	0.05	-0.01	
Singrauli Solar(15)	15	2	0	0	0.05	2	0.04	0.01	
KHEP(4*200)	800	855	850	851	20.68	862	20.52	0.16	
Sub Total (A)	12112	11447	9655	9050	211	8779	214	-3.55	
B. NPC									
NAPS (2*220)	440	382	413	426	9.16	382	9.17	-0.01	
RAPS- B (2*220)	440	367	406	412	8.79	366	8.81	-0.02	
RAPS- C (2*220)	440	405	435	438	9.35	390	9.72	-0.37	
Sub Total (B)	1320	1154	1254	1276	27.30	1138	27.70	-0.39	
C. NHPC									
Chamera I HPS (3*180)	540	540	544	543	12.93	539	12.81	0.12	
Chamera II HPS (3*100)	300	301	310	302	7.28	303	7.22	0.06	
Chamera III HPS (3*77)	231	231	232	235	5.57	232	5.55	0.02	
Bairasuli HPS(3*60)	180	180	185	0	2.27	95	2.19	0.08	
Salal-HPS (6*115)	690	662	669	670	16.14	672	15.88	0.25	
Tanakpur-HPS (3*31.4)	94	84	94	94	2.18	91	2.01	0.17	
Uri-I HPS (4*120)	480	442	455	451	10.79	450	10.61	0.18	
Uri-II HPS (4*60)	240	235	240	240	5.73	239	5.64	0.09	
Dhauliganga-HPS (4*70)	280	280	287	282	6.76	281	6.72	0.04	
Dulhasti-HPS (3*130)	390	258	273	265	6.28	262	6.19	0.09	
Sewa-II HPS (3*40)	120	119	127	0	0.62	26	0.55	0.07	
Parbati 3 (4*130)	520	390	396	0	2.87	120	2.81	0.06	
Sub Total (C)	4065	3723	3812	3083	79	3309	78	1.23	
D. SJVNL									
NJPC (6*250)	1500	1605	1605	1605	38.61	1609	38.52	0.09	
Rampur HEP (6*68.67)	412	442	450	450	10.79	450	10.61	0.18	
Sub Total (D)	1912	2047	2055	2055	49.40	2058	49.13	0.27	
E. THDC									
Tehri HPS (4*250)	1000	680	682	352	14.13	589	14.00	0.13	
Koteshwar HPS (4*100)	400	242	394	181	5.86	244	5.80	0.06	
Sub Total (E)	1400	922	1076	533	19.99	833	19.80	0.19	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1016	1302	902	24.37	1015	24.38	-0.01	
Dehar HPS (6*165)	990	533	825	495	12.95	540	12.80	0.16	
Pong HPS (6*66)	396	149	260	102	3.74	156	3.58	0.15	
Sub Total (F)	2765	1698	2387	1499	41.06	1711	40.76	0.30	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	199	143	3.20	133	4.42	-1.22	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.42	1101	26.08	0.34	
Malana Stg-II HPS (2*50)	100	0	96	95	2.19	91	2.05	0.13	
Shree Cement TPS (2*150)	300	0	256	252	6.41	267	6.12	0.28	
Budhil HPS(IPP) (2*35)	70	0	71	69	1.65	69	1.73	-0.08	
Sub Total (G)	1662	0	1721	1660	39.86	1661	40.40	-0.54	
H. Total Regional Entities (A-G)	25237	20991	21960	19156	467.73	19489	470.23	-2.50	

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	893	480	14.04	585	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	205	95	2.86	119	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	673	412	11.14	464	
	Goindwal(GVK) (2*270)	540	0	0	-0.04	-2	
	Rajpura (2*700)	1400	1320	1120	30.96	1290	
	Talwandi Saboo (3*660)	1980	1064	913	23.94	998	
	Thermal (Total)	6560	4155	3020	82.89	3454	
	Total Hydro	1000	511	692	13.85	577	
	Total Punjab	7560	4666	3712	96.74	4031	
	Haryana	Panipat TPS (2*210+2*250)	920	122	0	0.88	37
DCRTPP (Yamuna nagar) (2*300)		600	546	553	12.32	513	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	181	162	4.36	182	
RGTPP (khedar) (IPP) (2*600)		1200	346	721	13.82	576	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1195	1436	31.38	1308	
Total Hydro		62	33	36	0.85	36	
Total Haryana		4559	1228	1472	32.23	1343	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	650	474	14.33	597
	suratgarh TPS (6*250)	1500	187	187	4.77	199	
	Chabra TPS (4*250)	1000	631	620	13.24	552	
	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	179	177	4.26	177	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	113	113	2.62	109	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	556	592	15.01	625	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	403	414	9.98	416	
	Kawai(Adani) (2*660)	1320	1015	1203	28.29	1179	
	Thermal (Total)	8876	3734	3780	92	3854	
	Total Hydro	550	0	0	0.00	0	
	Wind power	3214	1338	1677	36.21	1509	
	Biomass	99	16	16	0.39	16	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	1354	1693	36.60	1525	
	Total Rajasthan	13469	5088	5473	129.10	5379	
	UP	Anpara TPS (3*210+2*500)	1630	1291	1058	29.00	1208
		Obra TPS (2*50+2*94+5*200)	1194	296	325	7.50	313
		Paricha TPS (2*110+2*220+2*250)	1160	832	790	19.60	817
		Panki TPS (2*105)	210	126	0	1.50	63
Harduaganj TPS (1*60+1*105+2*250)		665	536	444	11.20	467	
Tanda TPS (NTPC) (4*110)		440	385	385	8.98	374	
Roza TPS (IPP) (4*300)		1200	1117	797	25.40	1058	
Anpara-C (IPP) (2*600)		1200	495	543	12.20	508	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	403	0	5.50	229	
Anpara-D(2*500)		1000	214	247	4.70	196	
Lalitpur TPS(3*660)		1980	0	0	0.50	21	
Bara(2*660)		1320	538	547	12.20	508	
Thermal (Total)		12449	6233	5136	138	5762	
Vishnuparyag HPS (IPP)(4*110)		440	395	435	10.20	425	
Alaknanda(4*82.5)		330	342	342	8.10	338	
Other Hydro		527	274	255	4.10	171	
Cogeneration		981	100	100	2.40	100	
Total UP		14727	7344	6268	163	6795	
Uttarakhand		Total Hydro	1398	712	533	15.87	661
	Total Gas	225	0	0	0.00	0	
	Total Uttarakhand	1623	712	533	16	661	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	28	76	1.55	65	
	Pragati Gas Turbine (2x104+ 1x122)	330	263	261	6.39	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	254	253	6.05	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	321	324	6.97	291	
	Thermal (Total)	2917	866	914	20.95	873	
	Total Delhi	2917	866	914	20.95	873	
HP	Baspa HPS (IPP) (3*100)	300	331	331	7.70	321	
	Malana HPS (IPP) (2*43)	86	96	91	1.98	82	
	Other Hydro	878	471	471	10.86	452	
	Total HP	1264	898	893	20.53	855	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	585	585	14.04	585	
	Other Hydro/IPP	560	150	148	3.54	148	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	735	733	17.58	733	
Total State Control Area Generation		47619	21537	19998	496.07	20670	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7736.87	7876.61	201.70	8404	
Total Regional Availability(Gross)		72856	51233	47030	1165.51	48563	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11575	9360	242.35	10098
State Control Area Hydro		7106	3900	3919	91	3795
Total Regional Hydro		19340	15475	13279	333.43	13893

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	-250	0	250	0.00	6.16	-6.16
765 KV Gwalior-Agra (D/C)	2494	2551	2974	0	58.98	0.00	58.98
400 KV Zerda-Kankroli	-116	-69	4	266	0.00	2.74	-2.74
400 KV Zerda-Bhinmal	-114	-64	61	233	0.00	2.30	-2.30
220 KV Auraiya-Malanpur	-7	-18	0	15	0.51	0.00	0.51
220 KV Badod-Kota/Morak	80	152	114	0	3.07	0.00	3.07
Mundra-Mohindergarh(HVDC Bipole)	2498	2203	2506	0.00	53.95	0.00	53.95
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	870	1050	599	0	23.50	0.00	23.50
Sub Total WR	5455	5555			140.00	11.20	128.80
Pusauli Bypass/HVDC	100	-224	400	275	0.69	3.77	-3.08
400 KV MZP- GKP (D/C)	307	455	674	0	10.84	0.00	10.84
400 KV Patna-Balia(D/C) X 2	472	623	717	0	15.12	0.00	15.12
400 KV B'Sharif-Balia (D/C)	197	162	390	0	5.64	0.00	5.64
765 KV Gaya-Balia	313	188	354	0	3.03	0.00	3.03
765 KV Gaya-Varanasi (D/C)	-292	-355	535	0	9.26	0.00	9.26
220 KV Pusauli-Sahupuri	198	154	217	0	4.26	0.00	4.26
132 KV K'nasa-Sahupuri	-52	-38	0	54	0.00	0.77	-0.77
132 KV Son Ngr-Rihand	-7	-18	0	28	0.00	0.38	-0.38
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	116	103	272	0	3.78	0.00	3.78
400 KV Barh -GKP (D/C)	430	472	500	0	10.49	0.00	10.49
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1782	1522			63.12	4.93	58.19
+/- 800 KV BiswanathChariali-Agra	500	800	489	0.00	14.72	0.00	14.72
Sub Total NER	500	800			14.72	0.00	14.72
Total IR Exch	7737	7877			217.84	16.13	201.70

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
42.16	3.61	45.77	10.70	23.37	15.01	0.53	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
71.48	113.07	184.55	72.90	128.80	201.70	1.42	15.74	17.16

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	-30	-23	0	31	0	1	-0.59

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	0.09	3.36	17.95	66.63	72.80	8.89	0.38	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)		
50.12	8.03	49.69	21.42	49.96	0.066	50.14	49.87	27.20	

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	407	6:02	400	13:26	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	413	17:58	392	11:49	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	410	8:28	388	11:08	0.0	3.2	0.0	0.0	0.0
Kanpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	409	17:56	390	11:13	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	417	6:02	392	14:41	0.0	0.0	0.0	0.0	0.0
Bawana	400	413	17:56	392	14:41	0.0	0.0	0.0	0.0	0.0
Bassi	400	419	17:56	392	14:42	0.0	0.0	0.0	0.0	0.0
Hissar	400	412	17:56	390	14:41	0.0	0.0	0.0	0.0	0.0
Moga	400	408	6:02	392	12:20	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	406	5:32	389	11:51	0.0	0.6	0.0	0.0	0.0
Nalagarh	400	415	4:02	398	12:22	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	407	5:02	393	14:38	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	2:52	390	20:44	0.0	0.0	0.0	0.0	0.0
Amritsar	400	414	4:02	398	12:22	0.0	0.0	0.0	0.0	0.0
Kashipur	400	415	8:30	404	11:09	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	413	2:51	397	15:08	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	401	8:28	378	14:41	1.8	42.8	0.0	0.0	1.8

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	778	17:58	739	11:50	0.0	3.6	0.0	0.0	0.0
Balia	765	778	18:01	739	11:51	0.0	2.0	0.0	0.0	0.0
Moga	765	788	17:56	752	11:12	0.0	0.0	0.0	0.0	0.0
Agra	765	792	17:58	749	14:40	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	797	17:55	754	11:51	0.0	0.0	0.0	0.0	0.0
Unnao	765	767	17:58	725	11:11	0.5	27.4	0.0	0.0	0.5
Lucknow	765	784	17:59	743	11:51	0.0	0.0	0.0	0.0	0.0
Meerut	765	809	17:57	754	11:13	0.0	0.0	2.6	0.0	2.6
Jhatikara	765	755	0:00	755	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	766	0:00	766	0:00	0.0	0.0	0.0	0.0	0.0
Anta	765	786	6:02	758	14:39	0.0	0.0	0.0	0.0	0.0
Phagi	765	792	17:56	751	14:38	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 ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	481.41	488.47	490.33	748.75	1138.02	905.91
Pong	426.72	384.05	394.58	121.45	406.02	370.28	365.03	289.11
Tehri	829.79	740.04	763.85	154.42	755.05	84.00	515.00	453.00
Koteswar	612.50	598.50	609.06	4.10	610.96	4.95	453.00	386.44
Chamera-I	760.00	748.75	752.25	0.00	0.00	0.00	263.57	353.29
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	504.34	3.98	522.83	10.71	313.67	167.96

* 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	1440	409	0	1291	293	0	31.81	9.46	41.27
Delhi	519	134	0	886	-23	0	18.74	-1.31	17.44
Haryana	1818	351	0	1777	343	0	40.47	7.87	48.34
HP	-1502	-159	0	-1249	-238	0	-31.99	-4.14	-36.13
J&K	-876	0	0	-650	-15	0	-17.34	-0.70	-18.04
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-423	508	0	-423	501	0	-10.14	13.45	3.31
UP	1144	0	0	805	0	0	21.30	0.00	21.30
Uttarakhand	-347	305	0	-345	440	0	-8.32	7.74	-0.58
Total	1773	1547	0	2092	1302	0	44.89	32.37	77.27

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1440	1240	429	293	0	0
Delhi	935	519	440	-625	0	0
Haryana	2019	1550	388	-50	0	0
HP	-1247	-1504	-110	-340	0	0
J&K	-574	-927	0	-101	0	0
CHD	44	0	0	0	0	0
Rajasthan	-423	-423	886	498	0	0
UP	1170	722	0	0	0	0
Uttarakhand	-345	-348	440	257	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	0.69%

(ii)%age of times ATC violated on the inter-regional corridors

WR	0.00%
ER	0.00%
Simultaneous	23.61%

(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 07.07.2016 :

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.