

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 20.07.2016

Date of Reporting : 21.07.2016

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
48479	1147	49626	50.05	45375	255	45630	50.03	1118.0	14.01

* 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	74.60	14.81		89.41	133.77	134.55	0.78	223.96	0.00
Haryana	24.91	0.93		25.84	157.92	156.45	-1.47	182.29	0.00
Rajasthan	82.28	0.00	33.24	115.52	69.19	72.46	3.27	187.98	1.65
Delhi	15.47			15.47	95.88	96.14	0.26	111.61	0.33
UP	133.00	20.60		153.60	151.17	152.13	0.96	305.73	3.24
Uttarakhand		19.85		19.85	18.82	20.44	1.62	40.28	0.49
HP		24.76		24.76	-0.18	1.75	1.93	26.51	0.04
J & K		22.48	0.00	22.48	15.45	10.62	-4.83	33.09	8.27
Chandigarh				0.00	6.70	6.54	-0.16	6.54	0.00
Total	330.26	103.43	33.24	466.93	648.72	651.07	2.36	1118.00	14.01

* 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	9505	0	138	1810	8531	0	154	1876	9676	23:00	0
Haryana	8137	0	-91	2082	7710	0	29	2256	8926	21:00	0
Rajasthan	7737	0	-345	297	7746	0	17	333	8777	24:00	0
Delhi	4796	0	-71	815	4330	0	132	452	5575	24:00	0
UP	13433	660	227	578	13332	0	-72	656	13602	4:00	0
Uttarakhand	1839	75	180	-39	1548	0	-10	-51	1839	20:00	75
HP	1089	0	22	-1512	936	0	101	-1777	1236	10:00	0
J&K	1649	412	-132	-658	1019	255	-274	-1022	1702	21:00	426
Chandigarh	294	0	-2	0	224	0	-16	0	342	16:00	0
Total	48479	1147	-74	3372	45375	255	61	2723	50291	21:00	501

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

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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	1877	2054	2081	45.56	1898	44.86		0.71
Rihand I STPS (2*500)	1000	458	512	507	11.06	461	10.82		0.24
Rihand II STPS (2*500)	1000	945	1028	1016	22.38	932	22.05		0.32
Rihand III STPS (2*500)	1000	945	1017	908	22.52	938	22.44		0.07
Dadri I STPS (4*210)	840	805	552	337	9.13	380	9.04		0.09
Dadri II STPS (2*490)	980	960	1014	687	18.04	752	18.75		-0.71
Unchahar I TPS (2*210)	420	348	343	340	7.19	300	7.78		-0.59
Unchahar II TPS (2*210)	420	400	397	331	8.29	345	8.75		-0.46
Unchahar III TPS (1*210)	210	200	209	172	4.10	171	4.31		-0.21
ISTPP (Jhajjar) (3*500)	1500	1380	1189	601	19.06	794	19.04		0.01
Dadri GPS (4*130.19+2*154.51)	830	782	354	331	7.70	321	8.01		-0.31
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	632	151	150	3.37	140	3.54		-0.17
Dadri Solar(5)	5	1	0	0	0.02	1	0.02		0.00
Unchahar Solar(10)	10	1	0	0	0.03	1	0.03		0.00
Singrauli Solar(15)	15	1	0	0	0.06	2	0.04		0.02
KHEP(4*200)	800	855	852	853	20.55	856	20.52		0.03
Sub Total (A)	12112	10989	9672	8314	199	8294	20.52		-0.96
B. NPC									
NAPS (2*220)	440	385	418	421	9.12	380	9.24		-0.12
RAPS- B (2*220)	440	182	203	201	4.25	177	4.37		-0.12
RAPS- C (2*220)	440	410	434	443	9.42	393	9.84		-0.42
Sub Total (B)	1320	977	1055	1065	22.79	950	23.45		-0.66
C. NHPC									
Chamera I HPS (3*180)	540	540	540	545	12.98	541	12.96		0.02
Chamera II HPS (3*100)	300	301	309	303	7.28	303	7.22		0.06
Chamera III HPS (3*77)	231	228	231	233	5.04	210	5.06		-0.02
Bairasuli HPS(3*60)	180	180	184	124	1.98	82	1.92		0.06
Salal-HPS (6*115)	690	662	672	674	16.13	672	15.88		0.24
Tanakpur-HPS (3*31.4)	94	86	96	95	2.29	95	2.03		0.25
Uri-I HPS (4*120)	480	382	412	366	9.48	395	9.19		0.28
Uri-II HPS (4*60)	240	214	237	160	5.30	221	5.13		0.17
Dhauliganga-HPS (4*70)	280	280	278	277	6.67	278	6.72		-0.05
Dulhasi-HPS (3*130)	390	381	390	391	9.20	383	9.13		0.07
Sewa-II HPS (3*40)	120	119	128	0	0.70	29	0.81		-0.11
Parbati 3 (4*130)	520	287	386	0	3.45	144	3.39		0.06
Sub Total (C)	4065	3660	3862	3167	80	3354	79		1.04
D. SJVNL									
NJPC (6*250)	1500	1605	1606	1615	38.51	1604	38.45		0.06
Rampur HEP (6*68.67)	412	442	447	446	10.81	451	10.61		0.20
Sub Total (D)	1912	2047	2053	2061	49.32	2055	49.06		0.26
E. THDC									
Tehri HPS (4*250)	1000	812	808	811	18.95	790	19.00		-0.05
Koteshwar HPS (4*100)	400	317	399	274	7.66	319	7.60		0.06
Sub Total (E)	1400	1129	1207	1085	26.60	1109	26.60		0.00
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1069	1321	912	25.69	1070	25.66		0.03
Dehar HPS (6*165)	990	612	800	600	14.65	610	14.70		-0.04
Pong HPS (6*66)	396	81	165	55	1.93	80	1.95		-0.02
Sub Total (F)	2765	1763	2286	1567	42.27	1761	42.31		-0.04
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	190	110	3.43	143	3.65		-0.22
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.34	1097	26.07		0.27
Malana Stg-II HPS (2*50)	100	0	112	112	2.55	106	2.50		0.05
Shree Cement TPS (2*150)	300	0	255	237	5.73	239	5.87		-0.14
Budhil HPS(IPP) (2*35)	70	0	73	73	1.72	72	1.73		-0.01
Sub Total (G)	1662	0	1730	1632	39.77	1657	39.82		-0.05
H. Total Regional Entities (A-G)	25237	20565	21865	18891	460.29	19179	460.69		-0.40

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	540	340	9.08	378	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	95	95	2.19	91	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	250	204	5.10	213	
	Goindwal(GVK) (2*270)	540	30	180	3.58	149	
	Rajpura (2*700)	1400	1320	1220	31.24	1302	
	Talwandi Saboo (3*660)	1980	1090	616	23.42	976	
	Thermal (Total)	6560	3325	2655	74.60	3108	
	Total Hydro	1000	626	585	14.81	617	
	Total Punjab	7560	3951	3240	89.41	3726	
	Haryana	Panipat TPS (2*210+2*250)	920	238	202	5.61	234
DCRTPP (Yamuna nagar) (2*300)		600	531	459	11.76	490	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	307	314	7.53	314	
RGTPP (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	0	0.00	0	
Thermal (Total)		4497	1076	975	24.91	1038	
Total Hydro		62	38	40	0.93	39	
Total Haryana		4559	1114	1015	25.84	1077	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	288	160	4.87	203
	suratgarh TPS (6*250)	1500	182	191	5.03	210	
	Chabra TPS (4*250)	1000	744	631	17.69	737	
	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	162	168	3.66	153	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	113	112	2.58	108	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	574	649	17.15	715	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	392	0	2.32	97	
	Kawai(Adani) (2*660)	1320	1224	1205	28.98	1207	
	Thermal (Total)	8876	3679	3116	82	3428	
	Total Hydro	550	0	0	0.00	0	
	Wind power	3214	1409	1609	29.78	1241	
	Biomass	99	25	25	0.61	25	
	Solar	730	1	0	2.84	118	
	Renewable/Others (Total)	4043	1435	1634	33.24	1385	
	Total Rajasthan	13469	5114	4750	115.52	4813	
	UP	Anpara TPS (3*210+2*500)	1630	1325	1366	32.50	1354
Obra TPS (2*50+2*94+5*200)		1194	359	347	8.50	354	
Paricha TPS (2*110+2*220+2*250)		1160	796	789	15.70	654	
Panki TPS (2*105)		210	117	126	2.90	121	
Harduaganj TPS (1*60+1*105+2*250)		665	444	446	9.60	400	
Tanda TPS (NTPC) (4*110)		440	280	275	6.60	275	
Roza TPS (IPP) (4*300)		1200	833	664	17.90	746	
Anpara-C (IPP) (2*600)		1200	1080	1026	25.00	1042	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	205	194	4.80	200	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	448	538	8.30	346	
Thermal (Total)		12449	5887	5771	132	5492	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438	
Alaknanda(4*82.5)		330	280	340	8.10	338	
Other Hydro		527	75	59	2.00	83	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	6727	6655	154	6400	
Uttarakhand		Total Hydro	1398	866	835	19.85	827
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	866	835	20	827	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	102	68	2.05	86	
	Pragati Gas Turbine (2x104+ 1x122)	330	260	264	6.38	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-4	-4	-0.10	-4	
	Badarpur TPS (NTPC) (3*95+2*210)	705	329	330	7.14	297	
	Thermal (Total)	2917	687	658	15.47	645	
	Total Delhi	2917	687	658	15.47	645	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.92	330	
	Malana HPS (IPP) (2*43)	86	96	102	2.29	96	
	Other Hydro	878	597	615	14.55	606	
	Total HP	1264	1023	1047	24.76	1032	
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	20415	19143	466.93	19455	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8764.88	9333	214.30	8929	
Total Regional Availability(Gross)		72856	51045	47367	1141.52	47563	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11662	10055	251.55	10481
State Control Area Hydro		7106	4276	4284	103.43	4310
Total Regional Hydro		19340	15938	14339	354.99	14791

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	-50	250	250	2.32	2.52	-0.20
765 KV Gwalior-Agra (D/C)	2860	2229	2950	0	56.93	0.00	56.93
400 KV Zerda-Kankroli	25	-27	90	150	0.00	1.13	-1.13
400 KV Zerda-Bhinmal	22	-34	113	143	0.00	0.96	-0.96
220 KV Auraiya-Malanpur	-15	-46	0	61	0.00	0.93	-0.93
220 KV Badod-Kota/Morak	79	180	200	79	3.65	0.00	3.65
Mundra-Mohindergarh(HVDC Bipole)	2502	2499	2507	0.00	60.44	0.00	60.44
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	705	961	1219	705	24.91	0.00	24.91
Sub Total WR	6428	5712			148.25	5.55	142.70
Pusauli Bypass/HVDC	400	400	400	0	9.19	0.00	9.19
400 KV MZP- GKP (D/C)	296	582	626	0	11.46	0.00	11.46
400 KV Patna-Balia(D/C) X 2	523	749	835	0	16.24	0.00	16.24
400 KV B'Sharif-Balia (D/C)	88	133	232	0	2.99	0.00	2.99
765 KV Gaya-Balia	277	215	309	0	2.79	0.00	2.79
765 KV Gaya-Varanasi (D/C)	489	527	681	0	11.93	0.00	11.93
220 KV Pusauli-Sahupuri	190	238	238	0	4.75	0.00	4.75
132 KV K'nasa-Sahupuri	-34	-20	0	36	0.00	0.54	-0.54
132 KV Son Ngr-Rihand	-30	-24	0	30	0.00	0.53	-0.53
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-219	-159	0	300	0.00	3.23	-3.23
400 KV Barh -GKP (D/C)	452	496	504	0	10.40	0.00	10.40
400 kV B'Sharif - Varanasi (D/C)	-95	-16	171	0	1.89	0.00	1.89
Sub Total ER	2337	3121			71.64	4.30	67.34
+/- 800 KV BiswanathChariali-Agra	0	500	500	0.00	4.26	0.00	4.26
Sub Total NER	0	500			4.26	0.00	4.26
Total IR Exch	8765	9333			224.15	9.85	214.30

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
43.97	4.04	48.01	10.97	19.65	15.62	5.24	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
74.60	138.39	212.99	71.60	142.70	214.30	-3.00	4.31	1.31

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	-28	-21	0	28	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	0.00	2.89	52.90	82.25	13.11	1.79	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	18.03	49.84	5.41	50.00	0.025	50.16	50.01	17.75	

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	4:03	399	14:44	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	7:58	398	22:22	0.0	0.0	1.7	0.0	1.7
Bareilly(PG)400kV	400	405	17:54	405	17:54	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	8:02	395	14:39	0.0	0.0	0.0	0.0	0.0
Dadri	400	412	6:03	388	14:38	0.0	1.1	0.0	0.0	0.0
Ballabgarh	400	420	6:04	391	14:38	0.0	0.0	0.0	0.0	0.0
Bawana	400	415	6:02	391	14:38	0.0	0.0	0.0	0.0	0.0
Bassi	400	421	4:02	391	22:21	0.0	0.0	0.3	0.0	0.3
Hissar	400	414	6:02	388	14:38	0.0	1.0	0.0	0.0	0.0
Moga	400	408	6:00	387	14:20	0.0	11.8	0.0	0.0	0.0
Abdullapur	400	412	6:03	389	14:38	0.0	0.1	0.0	0.0	0.0
Nalagarh	400	412	5:02	388	14:19	0.0	1.4	0.0	0.0	0.0
Kishenpur	400	407	5:02	392	14:19	0.0	0.0	0.0	0.0	0.0
Wagoora	400	406	3:47	388	11:08	0.0	5.3	0.0	0.0	0.0
Amritsar	400	411	4:02	389	14:19	0.0	0.2	0.0	0.0	0.0
Kashipur	400	417	7:57	406	14:10	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	407	5:16	387	14:19	0.0	9.9	0.0	0.0	0.0
Rishikesh	400	408	6:05	381	14:39	0.0	11.2	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	783	8:02	729	22:22	0.0	19.2	0.0	0.0	0.0
Balia	765	798	8:02	754	22:21	0.0	0.0	0.0	0.0	0.0
Moga	765	792	18:18	744	14:39	0.0	0.0	0.0	0.0	0.0
Agra	765	787	18:19	741	22:31	0.0	0.2	0.0	0.0	0.0
Bhiwani	765	797	6:03	751	14:39	0.0	0.0	0.0	0.0	0.0
Unnao	765	776	8:02	735	22:31	0.0	11.1	0.0	0.0	0.0
Lucknow	765	788	18:17	754	22:33	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	18:17	749	14:40	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	776	18:17	746	22:21	0.0	0.0	0.0	0.0	0.0
Anta	765	785	18:19	754	12:38	0.0	0.0	0.0	0.0	0.0
Phagi	765	789	4:01	747	22:22	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	484.44	569.03	498.66	1041.47	1439.51	916.45
Pong	426.72	384.05	398.42	185.67	411.85	555.85	380.49	140.28
Tehri	829.79	740.04	780.70	329.00	776.05	274.18	520.15	549.00
Koteshwar	612.50	598.50	609.46	4.21	610.26	4.69	549.00	504.82
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	280.35	355.11
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	506.46	6.96	523.50	10.78	341.22	271.13

* 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	1434	442	0	1242	568	0	31.18	14.96	46.14
Delhi	555	-103	0	768	47	0	18.73	0.28	19.02
Haryana	1875	382	0	1717	365	0	39.74	9.26	48.99
HP	-1495	-283	0	-1221	-291	0	-31.47	-6.58	-38.05
J&K	-719	-302	0	-644	-15	0	-17.70	-1.82	-19.52
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-194	527	0	-194	491	0	-4.66	12.35	7.69
UP	656	0	0	578	0	0	13.73	0.00	13.73
Uttarakhand	-345	293	0	-344	305	0	-8.28	6.39	-1.89
Total	1767	955	0	1903	1470	0	41.63	34.84	76.47

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1434	1190	924	424	0	0
Delhi	976	555	406	-374	0	0
Haryana	1879	1417	419	365	0	0
HP	-1218	-1495	-146	-388	0	0
J&K	-619	-870	0	-302	0	0
CHD	44	0	0	0	0	0
Rajasthan	-194	-194	527	486	0	0
UP	676	497	0	0	0	0
Uttarakhand	-344	-346	313	117	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	4.86%
ER	0.00%
Simultaneous	3.47%

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

WR	31.25%
ER	0.00%
Simultaneous	28.13%

(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 20.07.2016 :

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.