

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिश की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 24.07.2016
Date of Reporting : 25.07.2016



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
44648	902	45550	50.05	46474	1510	47985	50.03	1084.9	16.62

* 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	71.47	14.73		86.20	119.46	119.85	0.40	206.05	0.00
Haryana	32.20	1.00		33.20	147.50	144.61	-2.89	177.81	0.00
Rajasthan	121.80	0.00	9.20	131.00	68.65	71.20	2.55	202.20	0.00
Delhi	21.92			21.92	85.30	82.96	-2.34	104.88	0.04
UP	124.16	21.13		145.29	148.41	150.43	2.02	295.72	9.46
Uttarakhand		19.83		19.83	15.48	15.86	0.38	35.68	0.00
HP		22.42		22.42	1.06	1.53	0.47	23.94	0.00
J & K		22.48	0.00	22.48	14.60	10.92	-3.67	33.40	7.13
Chandigarh				0.00	5.58	5.18	-0.41	5.18	0.00
Total	371.55	101.58	9.20	482.33	606.04	602.55	-3.49	1084.88	16.62

* 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	8490	0	6	1125	8069	0	85	1416	9101	21:00	0
Haryana	7790	0	-98	1959	8036	0	-67	1996	8486	22:00	0
Rajasthan	7316	0	256	297	8961	0	90	308	9265	1:00	0
Delhi	4282	0	-90	394	4713	0	28	248	5239	24:00	75
UP	12506	505	98	538	13313	1305	385	945	13359	24:00	965
Uttarakhand	1718	40	179	66	1425	0	32	-183	1746	21:00	75
HP	872	0	-123	-1548	933	0	17	-1548	1123	10:00	0
J&K	1428	357	12	-668	821	205	-280	-930	1651	21:00	362
Chandigarh	246	0	-5	0	203	0	-15	0	278	23:00	0
Total	44648	902	235	2164	46474	1510	274	2252	48520	23:00	1190

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

Diversity is: 1.04

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	
								(MW)	Time(Hrs)
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1870	2036	2043	43.50	1813	43.15		0.36
Rihand I STPS (2*500)	1000	464	470	510	10.54	439	10.55		0.00
Rihand II STPS (2*500)	1000	943	839	1034	20.98	874	20.92		0.07
Rihand III STPS (2*500)	1000	943	859	1023	20.70	862	20.96		-0.26
Dadri I STPS (4*210)	840	805	504	442	10.17	424	10.26		-0.09
Dadri II STPS (2*490)	980	960	854	812	16.97	707	17.93		-0.96
Unchahar I TPS (2*210)	420	350	324	350	6.77	282	7.06		-0.29
Unchahar II TPS (2*210)	420	400	319	426	7.07	295	7.89		-0.82
Unchahar III TPS (1*210)	210	200	205	201	3.57	149	3.87		-0.30
ISTPP (Jhajjar) (3*500)	1500	1425	926	919	21.00	875	21.28		-0.29
Dadri GPS (4*130.19+2*154.51)	830	777	148	280	4.52	189	4.40		0.13
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	127	123	2.98	124	2.93		0.04
Dadri Solar(5)	5	1	0	0	0.02	1	0.02		0.00
Unchahar Solar(10)	10	2	0	0	0.03	1	0.04		-0.01
Singrauli Solar(15)	15	2	0	0	0.05	2	0.04		0.01
KHEP(4*200)	800	855	853	853	20.55	856	20.52		0.03
Sub Total (A)	12112	11028	8464	9016	189	7893	192		-2.39
B. NPC									
NAPS (2*220)	440	385	422	426	9.24	385	9.24		0.00
RAPS- B (2*220)	440	181	202	201	4.29	179	4.34		-0.05
RAPS- C (2*220)	440	410	438	442	9.42	392	9.84		-0.42
Sub Total (B)	1320	976	1062	1069	22.95	956	23.42		-0.48
C. NHPC									
Chamera I HPS (3*180)	540	536	546	238	8.46	353	8.40		0.06
Chamera II HPS (3*100)	300	301	308	205	6.53	272	6.49		0.04
Chamera III HPS (3*77)	231	229	235	156	4.61	192	4.59		0.02
Bairasuli HPS(3*60)	180	180	186	0	1.91	80	1.86		0.05
Salal-HPS (6*115)	690	665	678	678	16.35	681	15.95		0.39
Tanakpur-HPS (3*31.4)	94	86	95	92	2.24	93	2.05		0.19
Uri-I HPS (4*120)	480	350	410	360	8.75	365	8.45		0.31
Uri-II HPS (4*60)	240	201	181	190	4.92	205	4.82		0.10
Dhauliganga-HPS (4*70)	280	173	283	0	4.19	175	4.25		-0.06
Dulhasti-HPS (3*130)	390	96	399	0	2.32	96	2.30		0.01
Sewa-II HPS (3*40)	120	119	129	0	0.73	30	0.70		0.03
Parbati 3 (4*130)	520	379	391	130	2.80	117	2.77		0.03
Sub Total (C)	4065	3316	3842	2048	64	2658	63		1.16
D. SJVNL									
NJPC (6*250)	1500	1605	1617	1628	38.49	1604	38.48		0.01
Rampur HEP (6*68.67)	412	442	448	448	10.80	450	10.61		0.19
Sub Total (D)	1912	2047	2065	2076	49.29	2054	49.09		0.20
E. THDC									
Tehri HPS (4*250)	1000	824	832	827	19.30	804	19.25		0.04
Koteshwar HPS (4*100)	400	336	398	375	8.08	337	8.04		0.04
Sub Total (E)	1400	1160	1230	1202	27.38	1141	27.29		0.09
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1090	1319	915	26.39	1100	26.16		0.23
Dehar HPS (6*165)	990	594	660	420	14.40	600	14.25		0.15
Pong HPS (6*66)	396	80	174	58	1.92	80	1.91		0.01
Sub Total (F)	2765	1763	2153	1393	42.71	1779	42.32		0.39
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	201	110	3.06	127	3.45		-0.39
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.24	1093	26.08		0.16
Malana Stg-II HPS (2*50)	100	0	111	90	2.12	88	1.93		0.19
Shree Cement TPS (2*150)	300	0	144	147	3.50	146	3.93		-0.43
Budhil HPS(IPP) (2*35)	70	0	74	69	1.70	71	1.73		-0.03
Sub Total (G)	1662	0	1630	1516	36.62	1526	37.12		-0.50
H. Total Regional Entities (A-G)	25237	20290	20446	18320	432.16	18007	433.69		-1.53

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	850	640	16.87	703	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	180	190	4.27	178	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	386	387	8.70	363	
	Goindwal(GVK) (2*270)	540	180	180	4.46	186	
	Rajpura (2*700)	1400	1020	1020	28.60	1192	
	Talwandi Saboo (3*660)	1980	308	308	8.55	356	
	Thermal (Total)	6560	2924	2725	71.47	2978	
	Total Hydro	1000	607	672	14.73	614	
	Total Punjab	7560	3531	3397	86.20	3592	
	Haryana	Panipat TPS (2*210+2*250)	920	196	206	5.05	210
		DCRTPP (Yamuna nagar) (2*300)	600	458	463	11.20	467
Faridabad GPS (NTPC)(2*137.75+1*156)		432	310	306	7.18	299	
RGTPP (khedar) (IPP) (2*600)		1200	375	377	8.77	365	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1339	1352	32.20	1342	
Total Hydro		62	41	41	1.00	42	
Total Haryana		4559	1380	1393	33.20	1383	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	834	933	20.82	867
		suratgarh TPS (6*250)	1500	755	696	18.25	760
	Chabra TPS (4*250)	1000	669	865	18.96	790	
	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	150	153	3.90	163	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	113	113	2.59	108	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	529	843	17.58	732	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	405	536	12.31	513	
	Kawai(Adani) (2*660)	1320	869	1205	27.40	1142	
	Thermal (Total)	8876	4324	5344	122	5075	
	Total Hydro	550	0	0	0.00	0	
	Wind power	3214	140	488	6.08	253	
	Biomass	99	23	23	0.55	23	
	Solar	730	0	0	2.58	108	
	Renewable/Others (Total)	4043	163	511	9.20	384	
	Total Rajasthan	13469	4487	5855	131.00	5458	
	UP	Anpara TPS (3*210+2*500)	1630	1160	1198	27.91	1163
		Obra TPS (2*50+2*94+5*200)	1194	350	278	7.72	322
		Paricha TPS (2*110+2*220+2*250)	1160	714	798	17.99	750
		Panki TPS (2*105)	210	72	153	2.84	118
Harduaganj TPS (1*60+1*105+2*250)		665	378	402	9.18	382	
Tanda TPS (NTPC) (4*110)		440	285	276	6.46	269	
Roza TPS (IPP) (4*300)		1200	833	837	19.42	809	
Anpara-C (IPP) (2*600)		1200	1080	1061	25.46	1061	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	212	221	5.11	213	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	0	183	0.87	36	
Thermal (Total)		12449	5084	5407	123	5123	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.57	440	
Alaknanda(4*82.5)		330	342	340	8.18	341	
Other Hydro		527	61	192	2.38	99	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5972	6424	145	6054	
Uttarakhand		Total Hydro	1398	872	816	19.83	826
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	872	816	20	826	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	102	103	2.58	107	
	Pragati Gas Turbine (2x104+ 1x122)	330	264	265	6.38	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	254	254	6.03	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	320	323	6.95	290	
	Thermal (Total)	2917	940	944	21.92	913	
	Total Delhi	2917	940	944	21.92	913	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.76	323	
	Malana HPS (IPP) (2*43)	86	90	66	1.83	76	
	Other Hydro	878	537	536	12.82	534	
	Total HP	1264	957	932	22.42	934	
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	19072	20704	482.33	20097	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			9021	9353	199.24	8301	
Total Regional Availability(Gross)		72856	48539	48377	1113.72	46405	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11555	8872	235.14	9798
State Control Area Hydro		7106	4248	4371	101.58	4232
Total Regional Hydro		19340	15803	13243	336.72	14030

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)	-350	-300	0	400	0.00	6.84	-6.84
765 KV Gwalior-Agra (D/C)	2564	2594	2609	0	50.94	0.00	50.94
400 KV Zerda-Kankroli	74	-34	74	202	0.00	1.75	-1.75
400 KV Zerda-Bhinmal	135	29	177	84	0.37	0.00	0.37
220 KV Auraiya-Malanpur	-45	-47	0	67	0.00	1.00	-1.00
220 KV Badod-Kota/Morak	52	83	108	14	1.50	0.00	1.50
Mundra-Mohinderghar(HVDC Bipole)	2497	2503	2506	0.00	59.58	0.00	59.58
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	992	977	1113	0	19.60	0.00	19.60
Sub Total WR	5919	5805			131.99	9.59	122.39
Pusauli Bypass/HVDC	-332	-322	0	358	0.00	2.60	-2.60
400 KV MZP- GKP (D/C)	242	446	480	0	8.94	0.00	8.94
400 KV Patna-Balia(D/C) X 2	741	890	928	0	19.15	0.00	19.15
400 KV B'Sharif-Balia (D/C)	142	264	271	0	4.80	0.00	4.80
765 KV Gaya-Balia	263	306	312	0	2.80	0.00	2.80
765 KV Gaya-Varanasi (D/C)	567	536	580	0	11.41	0.00	11.41
220 KV Pusauli-Sahupuri	257	216	257	0	4.96	0.00	4.96
132 KV K'nasa-Sahupuri	-26	-22	0	40	0.00	0.56	-0.56
132 KV Son Ngr-Rihand	-30	-26	0	30	0.00	0.51	-0.51
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	62	90	147	0	2.27	0.00	2.27
400 KV Barh -GKP (D/C)	560	548	562	0	11.77	0.00	11.77
400 kV B'Sharif - Varanasi (D/C)	156	122	183	0	3.70	0.00	3.70
Sub Total ER	2602	3048			69.79	3.66	66.13
+/- 800 KV BiswanathCharialli-Agra	500	500	500	0.00	10.71	0.00	10.71
Sub Total NER	500	500			10.71	0.00	10.71
Total IR Exch	9021	9353			212.49	13.25	199.24

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
39.36	2.98	42.34	11.47	18.07	1.57	-2.13	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
55.37	140.42	195.79	76.84	122.39	199.24	21.47	-18.02	3.45

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	-32	-23	0	33	0	1	-0.57

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	3.61	45.67	77.07	17.37	1.93	0.05	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)		
50.21	18.02	49.84	4.25	50.00	0.028	50.17	50.00	22.93	

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	18:01	403	20:07	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	6:02	401	3:47	0.0	0.0	3.9	0.0	3.9
Bareilly(PG)400kV	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Kanpur	400	421	18:02	401	22:09	0.0	0.0	0.1	0.0	0.1
Dadri	400	416	18:00	400	22:08	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	424	18:01	404	22:08	0.0	0.0	15.5	0.0	15.5
Bawana	400	418	18:02	402	22:07	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	18:03	399	0:05	0.0	0.0	1.0	0.0	1.0
Hissar	400	415	18:02	398	20:08	0.0	0.0	0.0	0.0	0.0
Moga	400	412	5:57	400	20:08	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	413	6:00	402	20:10	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	419	4:02	411	20:09	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	415	5:02	402	19:52	0.0	0.0	0.0	0.0	0.0
Wagoora	400	410	3:13	395	11:04	0.0	0.0	0.0	0.0	0.0
Amritsar	400	420	5:07	408	20:08	0.0	0.0	0.0	0.0	0.0
Kashipur	400	420	6:04	411	22:10	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	5:01	410	21:11	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	415	18:02	397	22:09	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	797	8:01	752	22:10	0.0	0.0	0.0	0.0	0.0
Balia	765	801	8:00	764	22:10	0.0	0.0	0.2	0.0	0.2
Moga	765	801	18:01	773	22:09	0.0	0.0	0.2	0.0	0.2
Agra	765	796	18:04	758	22:09	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	17:59	769	22:09	0.0	0.0	0.0	0.0	0.0
Unnao	765	773	8:01	740	23:18	0.0	1.1	0.0	0.0	0.0
Lucknow	765	803	8:01	765	22:12	0.0	0.0	2.4	0.0	2.4
Meerut	765	810	18:01	773	22:13	0.0	0.0	15.8	0.0	15.8
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	794	18:02	756	23:17	0.0	0.0	0.0	0.0	0.0
Anta	765	790	18:00	768	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	794	18:00	762	22:11	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	485.02	585.65	500.52	1114.30	1077.06	939.21
Pong	426.72	384.05	399.33	203.01	413.44	611.20	346.99	136.77
Tehri	829.79	740.04	783.40	364.14	784.70	383.00	559.34	553.00
Koteswar	612.50	598.50	609.18	4.44	609.52	4.44	553.00	532.61
Chamera-I	760.00	748.75	750.93	0.00	0.00	0.00	210.11	232.10
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	506.21	7.01	523.45	8.61	331.90	274.77

* 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	1179	237	0	1051	74	0	25.79	5.85	31.64
Delhi	464	-216	0	827	-433	0	17.06	-7.46	9.60
Haryana	1690	306	0	1733	226	0	38.52	5.97	44.49
HP	-1441	-107	0	-1167	-381	0	-30.17	-5.84	-36.02
J&K	-880	-50	0	-653	-15	0	-17.83	0.06	-17.76
CHD	0	0	0	0	0	0	0.35	-0.20	0.16
Rajasthan	-194	502	0	-194	491	0	-4.66	11.85	7.19
UP	945	0	0	538	0	0	14.85	0.00	14.85
Uttarakhand	-347	164	0	-347	412	0	-8.35	6.38	-1.97
Total	1415	836	0	1789	375	0	35.56	16.61	52.17

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1216	1004	537	74	0	0
Delhi	853	464	97	-538	0	0
Haryana	1765	1463	311	-176	0	0
HP	-1164	-1441	-80	-381	0	0
J&K	-628	-930	50	-101	0	0
CHD	44	0	0	-50	0	0
Rajasthan	-194	-194	505	480	0	0
UP	956	484	0	0	0	0
Uttarakhand	-347	-349	413	160	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	0.35%
ER	0.00%
Simultaneous	5.56%

(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 24.07.2016 :

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.