

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 16.07.2016
Date of Reporting : 17.07.2016



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
41402	493	41895	50.05	42778	239	43016	50.03	965.3	8.23

*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	58.93	12.45		71.38	124.97	125.01	0.04	196.39	0.00
Haryana	22.36	0.26		22.62	134.90	128.78	-6.12	151.40	0.00
Rajasthan	71.22	0.10	40.30	111.62	41.31	40.34	-0.97	151.96	0.00
Delhi	16.15			16.15	79.15	77.80	-1.35	93.94	0.06
UP	130.72	16.27		146.99	121.59	121.06	-0.53	268.05	0.00
Uttarakhand		5.66		5.66	26.86	29.70	2.84	35.35	0.49
HP		21.18		21.18	3.28	6.02	2.73	27.19	0.07
J & K		22.45	0.00	22.45	12.51	12.86	0.35	35.32	7.61
Chandigarh				0.00	6.02	5.68	-0.34	5.68	0.00
Total	299.38	78.36	40.30	418.04	550.58	547.24	-3.34	965.28	8.23

* 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	8000	0	-184	1669	8302	0	73	1915	8588	17:00	0
Haryana	6822	0	-165	2096	7528	0	-11	2226	7865	1:00	0
Rajasthan	6678	0	220	-132	6279	0	-233	204	7021	21:00	0
Delhi	3888	0	44	311	4378	0	84	268	4910	1:00	0
UP	11235	0	-382	843	12711	0	-398	918	13919	1:00	0
Uttarakhand	1593	40	60	160	1390	0	24	-7	1616	10:00	0
HP	1141	0	286	-1567	1004	0	83	-1579	1297	10:00	7
J&K	1811	453	174	-584	954	239	-232	-920	1811	20:00	453
Chandigarh	235	0	-30	0	231	0	-13	0	263	12:00	0
Total	41402	493	24	2797	42778	239	-623	3024	45782	1:00	329

* 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))	
								Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1890	2057	1666	40.13	1672	39.45		0.68
Rihand I STPS (2*500)	1000	940	1010	1022	18.20	758	18.72		-0.52
Rihand II STPS (2*500)	1000	952	1011	1014	17.38	724	17.76		-0.38
Rihand III STPS (2*500)	1000	952	963	1010	18.23	760	19.02		-0.80
Dadri I STPS (4*210)	840	805	597	413	12.09	504	12.02		0.07
Dadri II STPS (2*490)	980	960	964	648	17.45	727	17.92		-0.47
Unchahar I TPS (2*210)	420	350	339	314	6.29	262	6.65		-0.36
Unchahar II TPS (2*210)	420	400	384	301	6.45	269	6.86		-0.41
Unchahar III TPS (1*210)	210	200	173	148	3.24	135	3.51		-0.26
ISTPP (Jhajjar) (3*500)	1500	1425	794	1101	19.78	824	20.19		-0.41
Dadri GPS (4*130.19+2*154.51)	830	790	380	258	6.18	258	6.32		-0.14
Anta GPS (3*88.71+1*153.2)	419	398	0	0	0.00	0	0.02		-0.02
Auraiya GPS (4*111.19+2*109.30)	663	631	131	131	3.10	129	3.16		-0.06
Dadri Solar(5)	5	0	0	0	0.06	2	0.01		0.04
Unchahar Solar(10)	10	2	0	0	0.08	3	0.05		0.03
Singrauli Solar(15)	15	1	0	0	0.02	1	0.02		0.00
KHEP(4*200)	800	855	853	853	20.73	864	20.52		0.21
Sub Total (A)	12112	11552	9656	8879	189	7892	192		-2.81
B. NPC									
NAPS (2*220)	440	378	386	384	8.32	347	9.07		-0.76
RAPS- B (2*220)	440	190	202	202	4.23	176	4.56		-0.33
RAPS- C (2*220)	440	400	438	436	9.43	393	9.60		-0.17
Sub Total (B)	1320	968	1026	1022	21.97	915	23.23		-1.26
C. NHPC									
Chamera I HPS (3*180)	540	540	545	542	12.58	524	12.48		0.09
Chamera II HPS (3*100)	300	301	311	304	7.27	303	7.22		0.05
Chamera III HPS (3*77)	231	231	235	235	5.60	233	5.55		0.05
Bairasuli HPS(3*60)	180	94	185	186	2.01	84	2.00		0.02
Salal-HPS (6*115)	690	648	675	675	15.92	663	15.56		0.35
Tanakpur-HPS (3*31.4)	94	83	95	95	2.17	91	1.98		0.20
Uri-I HPS (4*120)	480	391	416	418	9.53	397	9.39		0.14
Uri-II HPS (4*60)	240	220	217	236	5.30	221	5.30		0.01
Dhauliganga-HPS (4*70)	280	0	0	0	0.00	0	0.13		-0.13
Dulhasti-HPS (3*130)	390	381	395	391	9.22	384	9.14		0.08
Sewa-II HPS (3*40)	120	119	128	0	1.47	61	1.44		0.03
Parbati 3 (4*130)	520	390	391	129	4.89	204	4.80		0.09
Sub Total (C)	4065	3399	3593	3211	76	3165	75		0.98
D. SJVNL									
NJPC (6*250)	1500	758	1607	0	17.58	733	17.90		-0.32
Rampur HEP (6*68.67)	412	241	447	0	4.94	206	4.88		0.06
Sub Total (D)	1912	999	2054	0	22.52	939	22.78		-0.25
E. THDC									
Tehri HPS (4*250)	1000	733	690	528	12.74	531	12.81		-0.07
Koteshwar HPS (4*100)	400	229	398	183	5.50	229	5.50		0.00
Sub Total (E)	1400	962	1088	711	18.24	760	18.31		-0.07
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1085	1308	960	26.17	1090	26.03		0.14
Dehar HPS (6*165)	990	605	825	506	14.61	609	14.51		0.10
Pong HPS (6*66)	396	119	216	54	2.88	120	2.85		0.03
Sub Total (F)	2765	1808	2349	1520	43.66	1819	43.39		0.26
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	221	226	5.18	216	4.99		0.19
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	0	21.34	889	24.00		-2.66
Malana Stg-II HPS (2*50)	100	0	112	112	2.65	110	2.50		0.15
Shree Cement TPS (2*150)	300	0	276	254	5.97	249	6.05		-0.08
Budhil HPS(IPP) (2*35)	70	0	71	70	1.66	69	1.65		0.01
Sub Total (G)	1662	0	1780	663	36.79	1533	39.19		-2.40
H. Total Regional Entities (A-G)	25237	19688	21547	16006	408.53	17022	414.09		-5.56

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	480	870	14.05	586	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	180	270	5.01	209	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	404	406	9.38	391	
	Goindwal(GVK) (2*270)	540	0	0	0.32	13	
	Rajpura (2*700)	1400	1120	1020	21.83	910	
	Talwandi Saboo (3*660)	1980	408	308	8.33	347	
	Thermal (Total)	6560	2592	2874	58.93	2455	
	Total Hydro	1000	535	511	12.45	519	
	Total Punjab	7560	3127	3385	71.38	2974	
	Haryana	Panipat TPS (2*210+2*250)	920	0	202	1.08	45
DCRTPP (Yamuna nagar) (2*300)		600	465	464	9.98	416	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	346	319	7.64	318	
RGTPP (khedar) (IPP) (2*600)		1200	0	392	3.67	153	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	811	1377	22.36	932	
Total Hydro		62	0	10	0.26	11	
Total Haryana		4559	811	1387	22.62	942	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	157	790	8.43	351
	suratgarh TPS (6*250)	1500	181	182	4.46	186	
	Chabra TPS (4*250)	1000	558	549	13.28	553	
	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	164	162	4.07	169	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	113	113	2.64	110	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	675	449	11.61	484	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	0	405	5.35	223	
	Kawai(Adani) (2*660)	1320	1050	867	21.39	891	
	Thermal (Total)	8876	2898	3517	71	2967	
	Total Hydro	550	0	11	0.10	4	
	Wind power	3214	1422	1849	39.98	1666	
	Biomass	99	14	14	0.33	14	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	1436	1863	40.30	1679	
	Total Rajasthan	13469	4334	5391	111.62	4651	
	UP	Anpara TPS (3*210+2*500)	1630	1285	1240	28.30	1179
		Obra TPS (2*50+2*94+5*200)	1194	381	282	8.11	338
		Paricha TPS (2*110+2*220+2*250)	1160	590	709	15.01	625
		Panki TPS (2*105)	210	131	135	3.08	128
Harduaganj TPS (1*60+1*105+2*250)		665	419	519	10.56	440	
Tanda TPS (NTPC) (4*110)		440	200	280	5.36	223	
Roza TPS (IPP) (4*300)		1200	756	910	19.19	800	
Anpara-C (IPP) (2*600)		1200	945	1076	18.18	758	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	282	282	6.34	264	
Anpara-D(2*500)		1000	152	0	1.35	56	
Lalitpur TPS(3*660)		1980	0	355	4.54	189	
Bara(2*660)		1320	368	537	9.52	397	
Thermal (Total)		12449	5509	6325	130	5397	
Vishnuparyag HPS (IPP)(4*110)		440	0	395	7.04	294	
Alaknanda(4*82.5)		330	338	340	8.09	337	
Other Hydro		527	27	77	1.14	48	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5924	7187	147	6125	
Uttarakhand		Total Hydro	1398	428	256	5.66	236
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	428	256	6	236	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	73	85	1.75	73	
	Pragati Gas Turbine (2x104+ 1x122)	330	151	263	4.66	194	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-5	254	2.28	95	
	Badarpur TPS (NTPC) (3*95+2*210)	705	315	327	7.47	311	
	Thermal (Total)	2917	534	929	16.15	673	
	Total Delhi	2917	534	929	16.15	673	
HP	Baspa HPS (IPP) (3*100)	300	0	335	5.31	221	
	Malana HPS (IPP) (2*43)	86	102	102	2.45	102	
	Other Hydro	878	499	567	13.42	559	
	Total HP	1264	601	1004	21.18	882	
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	16691	20481	418.04	17418	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6230.84	7881.85	154.29	6429	
Total Regional Availability(Gross)		72856	44469	44368	980.86	40869	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11370	6633	210.26	8761
State Control Area Hydro		7106	2861	3546	78.36	3265
Total Regional Hydro		19340	14231	10179	288.62	12026

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	5.87	-5.87
765 KV Gwalior-Agra (D/C)	1924	2026	2737	0	41.48	0.00	41.48
400 KV Zerda-Kankroli	68	220	0	305	0.00	4.03	-4.03
400 KV Zerda-Bhinmal	-69	-212	0	268	0.00	3.68	-3.68
220 KV Auraiya-Malanpur	-37	-28	0	93	0.00	0.78	-0.78
220 KV Badod-Kota/Morak	51	19	76	9	1.69	0.00	1.69
Mundra-Mohinderghar(HVDC Bipole)	1802	2202	2205	0.00	39.94	0.00	39.94
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	804	672	557	0	17.11	0.00	17.11
Sub Total WR	4293	4649			100.22	14.36	85.86
Pusauli Bypass/HVDC	-200	-200	200	0	4.88	0.00	4.88
400 KV MZP- GKP (D/C)	166	530	552	0	9.49	0.00	9.49
400 KV Patna-Balia(D/C) X 2	252	944	986	0	15.72	0.00	15.72
400 KV B'Sharif-Balia (D/C)	0	87	130	0	1.85	0.00	1.85
765 KV Gaya-Balia	307	283	330	0	2.94	0.00	2.94
765 KV Gaya-Varanasi (D/C)	684	549	740	0	12.44	0.00	12.44
220 KV Pusauli-Sahupuri	184	232	239	0	4.86	0.00	4.86
132 KV K'nasa-Sahupuri	-40	-34	0	44	0.00	0.76	-0.76
132 KV Son Ngr-Rihand	-25	-23	0	27	0.00	0.40	-0.40
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-184	-161	0	224	0.00	3.63	-3.63
400 KV Barh -GKP (D/C)	294	526	568	0	9.61	0.00	9.61
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1438	2733			61.79	4.79	57.00
+/- 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	6231	7882			173.44	19.15	154.29

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
38.88	3.39	42.27	9.06	23.34	9.22	5.00	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
60.54	103.21	163.75	68.43	85.86	154.29	7.89	-17.36	-9.47

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	-24	-25	0	30	0	1	-0.54

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	1.79	33.05	65.31	24.58	8.41	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	8.04	49.84	18.13	50.02	0.037	0.056	0.00	0.00	34.69

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	482.45	519.70	496.26	948.89	1351.70	955.86
Pong	426.72	384.05	396.91	157.28	409.60	484.26	942.95	218.21
Tehri	829.79	740.04	773.15	242.35	769.60	204.00	1279.80	385.00
Koteshwar	612.50	598.50	609.74	4.69	610.26	4.69	385.00	362.62
Chamera-I	760.00	748.75	754.46	0.00	0.00	0.00	465.58	344.20
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	505.94	3.45	523.47	10.77	427.28	154.91

* 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	1444	470	0	1295	374	0	31.98	12.35	44.33
Delhi	493	-225	0	790	-479	0	17.34	-7.09	10.25
Haryana	1871	355	0	1761	336	0	41.24	5.11	46.35
HP	-1490	-89	0	-1351	-216	0	-31.96	-3.18	-35.14
J&K	-719	-201	0	-644	60	0	-16.84	-1.11	-17.95
CHD	0	0	0	0	0	0	0.36	0.00	0.36
Rajasthan	-346	550	0	-346	213	0	-6.77	12.08	5.31
UP	918	0	0	843	0	0	18.95	0.00	18.95
Uttarakhand	-448	441	0	-441	601	0	-10.69	11.54	0.85
Total	1723	1301	0	1908	889	0	43.60	29.70	73.31

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1445	1295	736	374	0	0
Delhi	860	493	64	-530	0	0
Haryana	2027	1583	366	-110	0	0
HP	-1216	-1623	-65	-337	0	0
J&K	-618	-769	60	-216	0	0
CHD	44	0	0	0	0	0
Rajasthan	-244	-346	552	-126	0	0
UP	938	670	0	0	0	0
Uttarakhand	-441	-448	601	436	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	0.00%

(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 16.07.2016 :

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.