

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(प्रावृत्ति की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 17.07.2016

Date of Reporting : 18.07.2016



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 ¹ (Hz)	Demand Met	Shortage	Requirement	Freq ¹ (Hz)	Demand Met	Shortage
37158	558	37715	50.05	37129	263	37392	50.03	864.8	8.11

¹Half 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	45.14	12.67		57.80	104.58	102.21	-2.37	160.01	0.00
Haryana	17.75	0.65		18.40	126.27	121.01	-5.25	139.41	0.00
Rajasthan	56.79	0.00	39.69	96.48	54.96	55.55	0.60	152.04	0.00
Delhi	11.68			11.68	75.78	72.78	-3.00	84.46	0.01
UP	106.00	17.45		123.46	118.28	111.27	-7.00	234.73	0.00
Uttarakhand		5.22		5.22	22.05	23.83	1.78	29.05	0.00
HP		18.48		18.48	4.25	4.57	0.32	23.05	0.00
J & K		22.45	0.00	22.45	14.46	14.85	0.39	37.31	8.11
Chandigarh				0.00	5.77	4.77	-1.00	4.77	0.00
Total	237.36	76.92	39.69	353.97	526.39	510.85	-15.54	864.82	8.11

* 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	6714	0	-100	1594	6816	0	-204	1876	7348	1:00	0
Haryana	6162	0	-421	1985	6140	0	-299	2170	6694	22:00	0
Rajasthan	6323	0	-64	26	6476	0	50	452	7063	23:00	0
Delhi	3578	0	-198	365	3680	0	-162	221	4065	1:00	0
UP	10151	160	296	564	10521	0	-92	662	12314	1:00	0
Uttarakhand	1462	0	177	137	1306	0	124	1	1462	20:00	0
HP	967	0	100	-1498	928	0	25	-1654	1098	8:00	0
J&K	1590	398	57	-584	1051	263	-63	-970	1652	21:00	413
Chandigarh	212	0	-58	0	212	0	-18	0	232	1:00	0
Total	37158	558	-211	2589	37129	263	-639	2759	40530	1:00	282

\$ 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	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW		(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1899	1883	1470	32.40	1350	31.89	0.50
Rihand I STPS (2*500)	1000	948	950	583	15.52	647	15.80	-0.28
Rihand II STPS (2*500)	1000	960	644	620	14.99	624	15.11	-0.12
Rihand III STPS (2*500)	1000	960	744	683	15.28	637	15.84	-0.56
Dadri I STPS (4*210)	840	805	238	256	6.50	271	6.52	-0.01
Dadri II STPS (2*490)	980	960	571	674	14.89	620	15.35	-0.46
Unchahar I TPS (2*210)	420	350	254	253	5.51	230	5.55	-0.04
Unchahar II TPS (2*210)	420	400	237	261	5.52	230	6.40	-0.88
Unchahar III TPS (1*210)	210	200	131	133	2.90	121	3.12	-0.22
ISTPP (Jhajjar) (3*500)	1500	1425	637	612	13.46	561	13.68	-0.22
Dadri GPS (4*130.19+2*154.51)	830	791	232	286	6.09	254	6.33	-0.25
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	631	132	147	3.04	127	3.08	-0.04
Dadri Solar(5)	5	0	0	0	0.01	0	0.01	0.00
Unchahar Solar(10)	10	1	0	0	0.01	1	0.02	-0.01
Singrauli Solar(15)	15	1	0	0	0.04	2	0.03	0.01
KHEP(4*200)	800	855	854	853	20.71	863	20.52	0.19
Sub Total (A)	12112	11586	7507	6831	157	6535	159	-2.40
B. NPC								
NAPS (2*220)	440	384	428	424	9.30	388	9.22	0.09
RAPS- B (2*220)	440	175	203	204	4.26	177	4.20	0.06
RAPS- C (2*220)	440	420	440	439	9.44	393	10.08	-0.64
Sub Total (B)	1320	979	1071	1067	23.00	959	23.50	-0.49
C. NHPC								
Chamera I HPS (3*180)	540	540	546	542	10.03	418	10.14	-0.11
Chamera II HPS (3*100)	300	301	311	304	7.24	302	7.22	0.02
Chamera III HPS (3*77)	231	231	236	237	5.58	232	5.55	0.03
Bairasuli HPS(3*60)	180	180	0	63	1.51	63	1.52	-0.01
Salal-HPS (6*115)	690	662	671	673	16.18	674	15.87	0.31
Tanakpur-HPS (3*31.4)	94	42	93	0	1.00	41	1.01	-0.02
Uri-I HPS (4*120)	480	377	405	411	9.12	380	9.07	0.05
Uri-II HPS (4*60)	240	209	228	235	5.06	211	5.02	0.04
Dhauliganga-HPS (4*70)	280	0	0	0	0.00	0	0.22	-0.22
Dulhasti-HPS (3*130)	390	381	394	392	9.18	383	9.13	0.05
Sewa-II HPS (3*40)	120	119	126	116	1.56	65	1.62	-0.06
Parbati 3 (4*130)	520	390	390	127	4.95	206	4.90	0.05
Sub Total (C)	4065	3431	3400	3099	71	2975	71	0.14
D. SJVNL								
NJPC (6*250)	1500	1605	1612	1606	38.19	1591	38.52	-0.33
Rampur HEP (6*68.67)	412	442	449	447	10.78	449	10.61	0.17
Sub Total (D)	1912	2047	2061	2053	48.97	2040	49.13	-0.16
E. THDC								
Tehri HPS (4*250)	1000	756	790	571	10.48	437	10.58	-0.09
Koteshwar HPS (4*100)	400	183	364	182	4.41	184	4.40	0.01
Sub Total (E)	1400	939	1154	753	14.89	620	14.98	-0.08
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	1048	1306	903	25.17	1049	25.14	0.03
Dehar HPS (6*165)	990	606	825	560	14.47	603	14.55	-0.08
Pong HPS (6*66)	396	101	220	54	2.46	103	2.43	0.03
Sub Total (F)	2765	1755	2351	1517	42.10	1754	42.12	-0.02
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	231	230	4.82	201	5.18	-0.37
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	25.98	1082	26.08	-0.10
Malana Stg-II HPS (2*50)	100	0	112	112	2.65	110	2.50	0.15
Shree Cement TPS (2*150)	300	0	183	238	5.13	214	5.28	-0.14
Budhil HPS(IPP) (2*35)	70	0	70	69	1.68	70	1.65	0.02
Sub Total (G)	1662	0	1696	1749	40.25	1677	40.70	-0.45
H. Total Regional Entities (A-G)	25237	20738	19240	17069	397.47	16561	400.94	-3.47

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	160	480	5.61	234	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	180	2.52	105	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	207	405	5.80	242	
	Goindwal(GVK) (2*270)	540	180	0	1.68	70	
	Rajpura (2*700)	1400	660	660	15.35	640	
	Talwandi Saboo (3*660)	1980	616	358	14.18	591	
	Thermal (Total)	6560	1913	2083	45.14	1881	
	Total Hydro	1000	565	512	12.67	528	
	Total Punjab	7560	2478	2595	57.80	2409	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	467	469	10.36	432	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	305	314	7.39	308	
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	772	783	17.75	740	
Total Hydro		62	36	0	0.65	27	
Total Haryana		4559	808	783	18.40	766	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	160	157	3.24	135
	suratgarh TPS (6*250)	1500	180	186	4.19	175	
	Chabra TPS (4*250)	1000	179	548	10.86	452	
	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	160	162	4.01	167	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	113	113	2.65	111	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	457	452	10.92	455	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0	
	Kawai(Adani) (2*660)	1320	865	866	20.93	872	
	Thermal (Total)	8876	2114	2484	57	2366	
	Total Hydro	550	0	0	0.00	0	
	Wind power	3214	1917	1707	39.27	1636	
	Biomass	99	17	17	0.41	17	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	1934	1724	39.69	1654	
	Total Rajasthan	13469	4048	4208	96.48	4020	
	UP	Anpara TPS (3*210+2*500)	1630	1175	1135	27.45	1144
Obra TPS (2*50+2*94+5*200)		1194	379	376	9.00	375	
Paricha TPS (2*110+2*220+2*250)		1160	569	583	14.10	588	
Panki TPS (2*105)		210	0	122	0.80	33	
Harduaganj TPS (1*60+1*105+2*250)		665	323	411	8.60	358	
Tanda TPS (NTPC) (4*110)		440	202	180	5.29	220	
Roza TPS (IPP) (4*300)		1200	194	761	9.97	415	
Anpara-C (IPP) (2*600)		1200	639	648	16.56	690	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	177	203	4.06	169	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	364	370	8.98	374	
Thermal (Total)		12449	4022	4789	105	4367	
Vishnuparyag HPS (IPP)(4*110)		440	395	435	9.02	376	
Alaknanda(4*82.5)		330	325	252	7.33	305	
Other Hydro		527	54	71	1.11	46	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	4846	5597	123	5144	
Uttarakhand		Total Hydro	1398	355	190	5.22	218
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	355	190	5	218	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	75	73	1.74	73	
	Pragati Gas Turbine (2x104+ 1x122)	330	149	152	3.68	153	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	0	0	0.00	0	
	Badarpur TPS (NTPC) (3*95+2*210)	705	316	320	6.25	260	
	Thermal (Total)	2917	540	545	11.68	487	
	Total Delhi	2917	540	545	11.68	487	
HP	Baspa HPS (IPP) (3*100)	300	0	0	2.75	115	
	Malana HPS (IPP) (2*43)	86	106	105	2.21	92	
	Other Hydro	878	630	553	13.52	563	
	Total HP	1264	736	658	18.48	770	
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	14743	15518	353.97	14749	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6180	5965	127.08	5295	
Total Regional Availability(Gross)		72856	40163	38553	878.51	36605	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11263	9717	231.52	9647
State Control Area Hydro		7106	3398	3060	76.92	3205
Total Regional Hydro		19340	14661	12777	308.44	12852

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	-250	0	250	0.00	6.23	-6.23
765 KV Gwalior-Agra (D/C)	1855	1349	2118	0	27.96	0.00	27.96
400 KV Zerda-Kankroli	-46	-167	55	182	0.00	1.87	-1.87
400 KV Zerda-Bhinmal	-54	-149	76	193	0.00	1.56	-1.56
220 KV Auraiya-Malanpur	-62	-38	0	122	0.00	1.46	-1.46
220 KV Badod-Kota/Morak	66	123	101	0	2.96	0.00	2.96
Mundra-Mohindergarh(HVDC Bipole)	1001	1500	1804	0.00	28.10	0.00	28.10
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	912	920	1222	0	18.89	0.00	18.89
Sub Total WR	3422	3288			77.90	11.13	66.77
Pusauli Bypass/HVDC	200	200	200	0	4.88	0.00	4.88
400 KV MZP- GKP (D/C)	402	396	652	0	11.44	0.00	11.44
400 KV Patna-Balia(D/C) X 2	580	548	818	0	13.98	0.00	13.98
400 KV B'Sharif-Balia (D/C)	50	52	170	0	2.10	0.00	2.10
765 KV Gaya-Balia	247	216	297	0	2.57	0.00	2.57
765 KV Gaya-Varanasi (D/C)	433	314	512	0	8.32	0.00	8.32
220 KV Pusauli-Sahupuri	184	232	239	0	4.86	0.00	4.86
132 KV K'nasa-Sahupuri	-28	0	0	32	0.00	0.42	-0.42
132 KV Son Ngr-Rihand	-31	-7	0	31	0.00	0.35	-0.35
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-177	-112	0	198	0.00	3.14	-3.14
400 KV Barh -GKP (D/C)	398	338	486	0	8.32	0.00	8.32
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2258	2177			56.46	3.92	52.55
+/- 800 KV BiswanathChariali-Agra	500	500	500	0.00	7.76	0.00	7.76
Sub Total NER	500	500			7.76	0.00	7.76
Total IR Exch	6180	5965			142.12	15.04	127.08

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
32.12	3.37	35.49	9.56	23.34	5.37	1.59	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
50.42	90.80	141.22	60.31	66.77	127.08	9.88	-24.03	-14.15

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	-17	0	30	0	0	-0.49

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	0.22	18.82	52.56	28.99	18.33	0.06	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	13.02	49.87	21.06	50.05	0.053	0.054	0.00	0.00	47.44

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	482.73	527.87	497.13	983.40	1351.70	955.86
Pong	426.72	384.05	397.50	168.56	410.78	524.54	942.95	218.21
Tehri	829.79	740.04	777.40	290.16	771.05	219.00	1122.37	310.00
Koteswar	612.50	598.50	609.63	4.44	610.28	4.69	310.00	290.98
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	364.91	275.19
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	506.09	3.88	523.46	10.76	377.88	151.55

* 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	1458	418	0	1307	287	0	32.30	9.44	41.74
Delhi	493	-271	0	790	-425	0	17.58	-8.80	8.78
Haryana	1871	299	0	1761	224	0	41.24	3.43	44.66
HP	-1497	-157	0	-1222	-276	0	-31.92	-3.88	-35.80
J&K	-719	-251	0	-644	60	0	-16.99	-1.38	-18.37
CHD	0	0	0	0	0	0	0.36	0.00	0.36
Rajasthan	-92	544	0	-92	119	0	-2.22	11.40	9.19
UP	662	0	0	564	0	0	13.76	0.00	13.76
Uttarakhand	-442	443	0	-442	579	0	-10.64	12.98	2.35
Total	1734	1025	0	2020	568	0	43.47	23.20	66.67

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1458	1307	442	282	0	0
Delhi	913	493	-65	-642	0	0
Haryana	2027	1583	304	-247	0	0
HP	-1219	-1610	-94	-401	0	0
J&K	-618	-870	60	-251	0	0
CHD	44	0	0	0	0	0
Rajasthan	-92	-92	547	-108	0	0
UP	677	515	0	0	0	0
Uttarakhand	-441	-445	653	424	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 17.07.2016 :

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.