

पाँवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 13.08.2016
Date of Reporting : 14.08.2016



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
43488	1302	44790	50.01	40408	283	40691	50.04	992.8	15.55

*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	53.75	15.29		69.05	132.18	132.22	0.04	201.26	0.00
Haryana	10.00	0.98		10.98	138.68	137.29	-1.39	148.27	0.00
Rajasthan	61.92	3.16	23.46	88.54	66.18	66.67	0.49	155.21	0.00
Delhi	18.41			18.41	76.41	76.65	0.24	95.06	0.15
UP	114.82	20.20		135.02	154.35	154.46	0.11	289.48	5.02
Uttarakhand		18.81		19.04	17.27	17.45	0.18	36.48	1.20
HP		23.94		23.94	-0.10	1.45	1.55	25.39	0.03
J & K		21.96	0.00	21.96	15.61	14.63	-0.99	36.58	9.15
Chandigarh				0.00	5.73	5.06	-0.67	5.06	0.00
Total	258.91	104.35	23.46	386.93	606.32	605.86	-0.46	992.79	15.55

* 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	8757	0	-120	1656	7373	0	-160	1797	9061	17:00	0
Haryana	6768	0	315	2009	6149	0	-53	2433	7545	22:00	0
Rajasthan	6922	0	-2	470	6128	0	-242	502	7474	21:00	0
Delhi	4190	6	115	441	3850	0	54	112	4532	24:00	0
UP	12001	765	-108	681	13201	0	-160	1056	13372	1:00	330
Uttarakhand	1717	75	86	-72	1505	0	-38	-212	1717	20:00	75
HP	1058	0	10	-1634	896	0	93	-1825	1257	10:00	0
J&K	1823	456	144	-673	1131	283	-34	-1082	1823	20:00	456
Chandigarh	253	0	-11	-30	176	0	-21	-50	263	15:00	0
Total	43488	1302	428	2847	40408	283	-561	2731	44820	21:00	583

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

Diversity is: 1.05

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	1297	1449	1424	30.91	1288	29.93	0.98
Rihand I STPS (2*500)	1000	793	832	836	18.08	753	18.07	0.01
Rihand II STPS (2*500)	1000	944	1028	766	20.38	849	19.52	0.86
Rihand III STPS (2*500)	1000	834	559	919	17.61	734	17.63	-0.02
Dadri I STPS (4*210)	840	800	178	165	4.09	170	4.14	-0.04
Dadri II STPS (2*490)	980	960	884	659	17.42	726	18.48	-1.06
Unchahar I TPS (2*210)	420	333	339	300	6.76	282	6.85	-0.08
Unchahar II TPS (2*210)	420	400	428	276	7.79	325	8.16	-0.36
Unchahar III TPS (1*210)	210	200	214	133	3.99	166	4.07	-0.09
ISTPP (Jhajjar) (3*500)	1500	1425	798	601	14.97	624	15.27	-0.31
Dadri GPS (4*130.19+2*154.51)	830	792	391	354	7.78	324	8.02	-0.24
Anta GPS (3*88.71+1*153.2)	419	409	257	221	5.34	223	5.24	0.10
Auraiya GPS (4*111.19+2*109.30)	663	634	134	154	3.35	139	3.35	-0.01
Dadri Solar(5)	5	1	0	0	0.01	0	0.02	-0.01
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	0.00
KHEP(4*200)	800	855	852	851	20.72	863	20.52	0.20
Sub Total (A)	12112	10680	8343	7659	179	7470	179	-0.09
B. NPC								
NAPS (2*220)	440	384	400	400	8.69	362	9.22	-0.53
RAPS- B (2*220)	440	180	203	205	4.28	178	4.32	-0.04
RAPS- C (2*220)	440	400	435	436	9.33	389	9.60	-0.27
Sub Total (B)	1320	964	1038	1041	22.30	929	23.14	-0.84
C. NHPC								
Chamera I HPS (3*180)	540	540	548	547	13.12	547	12.96	0.16
Chamera II HPS (3*100)	300	301	311	302	7.27	303	7.22	0.05
Chamera III HPS (3*77)	231	229	233	230	5.50	229	5.50	0.00
Bairasuli HPS(3*60)	180	180	185	183	4.40	183	4.32	0.08
Salal-HPS (6*115)	690	662	673	674	16.18	674	15.89	0.30
Tanakpur-HPS (3*31.4)	94	90	95	96	2.27	95	2.17	0.10
Uri-I HPS (4*120)	480	434	437	434	10.49	437	10.42	0.07
Uri-II HPS (4*60)	240	68	241	0	1.70	71	1.63	0.07
Dhauliganga-HPS (4*70)	280	265	286	280	6.42	268	6.35	0.07
Dulhasti-HPS (3*130)	390	381	396	391	9.24	385	9.14	0.10
Sewa-II HPS (3*40)	120	124	128	127	3.04	127	2.97	0.06
Parbati 3 (4*130)	520	520	537	0	6.85	286	6.76	0.09
Sub Total (C)	4065	3794	4069	3262	86	3604	85	1.16
D. SJVNL								
NJPC (6*250)	1500	1605	1616	1615	38.53	1605	38.52	0.01
Rampur HEP (6*68.67)	412	442	447	446	10.72	447	10.61	0.11
Sub Total (D)	1912	2047	2063	2061	49.25	2052	49.13	0.13
E. THDC								
Tehri HPS (4*250)	1000	1020	1019	1012	24.34	1014	24.48	-0.14
Koteshwar HPS (4*100)	400	367	395	365	8.86	369	8.80	0.06
Sub Total (E)	1400	1387	1414	1377	33.20	1383	33.28	-0.08
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	857	1333	669	20.36	848	20.56	-0.20
Dehar HPS (6*165)	990	613	825	570	14.75	614	14.72	0.03
Pong HPS (6*66)	396	190	330	66	4.49	187	4.57	-0.08
Sub Total (F)	2765	1660	2488	1305	39.59	1650	39.84	-0.26
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	231	231	5.51	229	5.31	0.20
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.37	1099	26.08	0.29
Malana Stg-II HPS (2*50)	100	0	112	112	2.66	111	2.49	0.17
Shree Cement TPS (2*150)	300	0	293	264	6.12	255	6.17	-0.06
Budhil HPS(IPP) (2*35)	70	0	75	73	1.75	73	1.65	0.10
Sub Total (G)	1662	0	1810	1780	42.40	1767	41.70	0.70
H. Total Regional Entities (A-G)	25237	20532	21224	18486	452.50	18854	451.77	0.73

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	420	320	8.13	339	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	220	90	3.37	141	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	469	207	8.27	344	
	Goindwal(GVK) (2*270)	540	235	246	5.75	239	
	Rajpura (2*700)	1400	1320	1020	28.24	1177	
	Talwandi Saboo (3*660)	1980	0	0	0.00	0	
	Thermal (Total)	6560	2664	1883	53.75	2240	
	Total Hydro	1000	720	579	15.29	637	
	Total Punjab	7560	3384	2462	69.05	2877	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	262	462	10.00	417	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
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	262	462	10.00	417	
Total Hydro		62	40	40	0.98	41	
Total Haryana		4559	302	502	10.98	458	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	160	147	3.88	162
	suratgarh TPS (6*250)	1500	0	0	0.00	0	
	Chabra TPS (4*250)	1000	408	366	9.43	393	
	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	154	141	3.62	151	
	RAPS A (NPC) (1*100+1*200)	300	163	162	4.12	172	
	Barsingsar (NLC) (2*125)	250	115	114	2.67	111	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	768	498	14.22	593	
	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	1106	913	23.98	999	
	Thermal (Total)	8876	2874	2341	62	2580	
	Total Hydro	550	70	183	3.16	132	
	Wind power	3214	601	1136	20.06	836	
	Biomass	99	26	26	0.63	26	
	Solar	730	1	0	2.76	115	
	Renewable/Others (Total)	4043	628	1162	23.46	977	
	Total Rajasthan	13469	3572	3686	88.54	3689	
	UP	Anpara TPS (3*210+2*500)	1630	654	625	15.00	625
Obra TPS (2*50+2*94+5*200)		1194	205	207	5.20	217	
Paricha TPS (2*110+2*220+2*250)		1160	692	799	16.40	683	
Panki TPS (2*105)		210	135	140	3.30	138	
Harduaganj TPS (1*60+1*105+2*250)		665	419	437	9.30	388	
Tanda TPS (NTPC) (4*110)		440	380	375	8.62	359	
Roza TPS (IPP) (4*300)		1200	824	811	21.30	888	
Anpara-C (IPP) (2*600)		1200	999	1031	21.30	888	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		1000	0	0	0.00	0	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	551	549	13.20	550	
Thermal (Total)		12449	4859	4974	114	4734	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438	
Alaknanda(4*82.5)		330	251	342	6.80	283	
Other Hydro		527	152	131	2.90	121	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5747	5932	135	5626	
Uttarakhand		Total Hydro	1398	769	792	18.81	784
		Total Gas	225	93	90	0.22	9
	Total Uttarakhand	1623	862	882	19	793	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	71	69	1.64	68	
	Pragati Gas Turbine (2x104+ 1x122)	330	146	148	3.63	151	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	252	253	6.05	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	325	323	7.09	295	
	Thermal (Total)	2917	794	793	18.41	767	
	Total Delhi	2917	794	793	18.41	767	
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.88	328	
	Malana HPS (IPP) (2*43)	86	106	107	2.51	105	
	Other Hydro	878	594	516	13.55	565	
	Total HP	1264	1030	953	23.94	998	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	732	733	17.58	733	
	Other Hydro/IPP	560	181	185	4.38	182	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	913	918	21.96	915	
Total State Control Area Generation		47619	16604	16128	386.93	16122	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			8584.62	6210.77	168.60	7025	
Total Regional Availability(Gross)		72856	46413	40824	1008.04	42002	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	12328	10299	263.78	10991
State Control Area Hydro		7106	4473	4463	104.57	4357
Total Regional Hydro		19340	16801	14762	368.36	15348

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	6.24	-6.24
765 KV Gwalior-Agra (D/C)	2477	1891	2477	0	47.07	0.00	47.07
400 KV Zerda-Kankroli	188	-26	220	78	1.27	0.00	1.27
400 KV Zerda-Bhinmal	155	-63	209	133	1.05	0.00	1.05
220 KV Auraiya-Malanpur	-21	-22	0	56	0.00	0.51	-0.51
220 KV Badod-Kota/Morak	161	89	182	67	2.90	0.00	2.90
Mundra-Mohindergarh(HVDC Bipole)	1498	1502	2005	0.00	37.72	0.00	37.72
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1038	667	1061	649	20.61	0.00	20.61
Sub Total WR	5246	3788			110.63	6.75	103.88
Pusauli Bypass/HVDC	64	111	0	121	0.00	1.78	-1.78
400 KV MZP- GKP (D/C)	514	366	644	0	11.10	0.00	11.10
400 KV Patna-Balia(D/C) X 2	422	462	623	0	12.14	0.00	12.14
400 KV B'Sharif-Balia (D/C)	304	173	336	0	6.00	0.00	6.00
765 KV Gaya-Balia	364	301	406	0	4.49	0.00	4.49
765 KV Gaya-Varanasi (D/C)	627	371	764	0	10.62	0.00	10.62
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	-20	0	30	0.00	0.30	-0.30
132 KV Son Ngr-Rihand	-26	-5	0	26	0.00	0.26	-0.26
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	118	-1	165	1	2.37	0.00	2.37
400 KV Barh -GKP (D/C)	380	452	500	0	9.51	0.00	9.51
400 kV B'Sharif - Varanasi (D/C)	72	213	266	0	4.01	0.00	4.01
Sub Total ER	2839	2423			60.23	2.33	57.91
+/- 800 KV BiswanathCharialli-Agra	500	0	500	0.00	6.82	0.00	6.82
Sub Total NER	500	0			6.82	0.00	6.82
Total IR Exch	8585	6211			177.68	9.08	168.60

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
36.60	3.99	40.59	42.35	13.56	-6.58	-3.80	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
76.35	96.20	172.55	64.73	103.88	168.60	-11.63	7.68	-3.95

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	-29	-34	0	35	0	-1	0.53

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	0.16	2.34	15.32	69.82	77.86	5.96	0.90	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)		
50.15	6.02	49.68	21.12	49.96	0.057	50.14	49.87	22.14	

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	410	6:06	404	2:41	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	6:06	400	18:49	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	5:37	400	14:20	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	5:36	402	19:27	0.0	0.0	0.0	0.0	0.0
Dadri	400	418	5:37	400	20:46	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	426	5:35	403	11:18	0.0	0.0	24.5	0.0	24.5
Bawana	400	420	5:03	402	20:45	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	5:03	396	19:48	0.0	0.0	5.8	0.0	5.8
Hissar	400	419	6:02	396	20:50	0.0	0.0	0.0	0.0	0.0
Moga	400	414	5:35	398	13:45	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	416	5:49	399	14:19	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	417	5:59	403	14:23	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	2:56	400	19:46	0.0	0.0	0.0	0.0	0.0
Wagoora	400	408	23:55	387	20:05	0.0	4.4	0.0	0.0	0.0
Amritsar	400	421	2:41	405	14:19	0.0	0.0	0.1	0.0	0.1
Kashipur	400	420	5:33	412	0:12	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	417	5:35	404	14:52	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	416	5:35	394	21:12	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	791	5:37	756	12:18	0.0	0.0	0.0	0.0	0.0
Balia	765	791	6:02	759	20:11	0.0	0.0	0.0	0.0	0.0
Moga	765	797	5:39	765	14:18	0.0	0.0	0.0	0.0	0.0
Agra	765	799	5:39	758	19:48	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Unnao	765	776	6:03	745	14:20	0.0	0.0	0.0	0.0	0.0
Lucknow	765	792	6:02	759	20:30	0.0	0.0	0.0	0.0	0.0
Meerut	765	815	5:38	772	11:16	0.0	0.0	17.4	0.0	17.4
Jhatikara	765	805	5:37	765	19:48	0.0	0.0	2.7	0.0	2.7
Bareilly 765 kV	765	790	5:37	756	14:20	0.0	0.0	0.0	0.0	0.0
Anta	765	797	5:04	766	19:31	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	4:12	764	19:25	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	495.31	914.64	507.83	1440.82	1647.90	633.62
Pong	426.72	384.05	413.84	633.63	421.25	946.20	1351.59	282.94
Tehri	829.79	740.04	807.90	761.38	809.05	782.78	806.11	573.00
Koteswar	612.50	598.50	610.45	4.69	610.39	4.70	573.00	584.88
Chamera-I	760.00	748.75	757.94	0.00	0.00	0.00	514.32	359.60
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	516.94	4.79	524.17	17.27	1593.87	140.44

* 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	1645	152	0	1236	419	0	39.73	4.21	43.94
Delhi	481	-370	0	650	-209	0	16.86	-8.45	8.41
Haryana	2038	382	13	1795	201	13	44.91	6.55	51.46
HP	-1496	-329	0	-1217	-417	0	-31.45	-8.06	-39.51
J&K	-583	-499	0	-658	-15	0	-15.51	-4.68	-20.19
CHD	0	-50	0	0	-30	0	0.36	-0.62	-0.27
Rajasthan	-129	631	0	-129	599	0	-3.08	14.90	11.82
UP	1056	0	0	681	0	0	18.47	0.00	18.47
Uttarakhand	-129	-83	0	-129	58	0	-3.10	0.16	-2.93
Total	2884	-166	13	2228	606	13	67.19	4.01	71.20

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1883	1033	449	59	0	0
Delhi	878	481	-154	-731	0	0
Haryana	2124	1732	395	-196	13	13
HP	-1217	-1496	-240	-468	0	0
J&K	-583	-784	-15	-499	0	0
CHD	44	0	0	-50	0	0
Rajasthan	-129	-129	634	599	0	0
UP	1072	608	0	0	0	0
Uttarakhand	-129	-129	132	-132	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:

XIV. Weather Conditions For 13.08.2016 :

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.