

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारशिद की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 22.08.2016
Date of Reporting : 23.08.2016



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
44659	2484	47143	50.04	42956	959	43915	50.06	1037.1	24.09

*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	69.33	16.10		85.42	118.64	118.89	0.25	204.31	0.00
Haryana	29.71	0.98		30.69	147.09	144.15	-2.94	174.84	0.00
Rajasthan	72.18	6.21	7.22	85.61	76.07	76.02	-0.05	161.63	4.65
Delhi	20.71			20.71	86.78	86.30	-0.48	107.01	0.01
UP	112.23	24.63		136.86	150.19	153.57	3.38	290.43	11.20
Uttarakhand		19.71		20.04	14.57	16.98	2.42	37.02	0.13
HP		20.29		20.29	2.56	3.75	1.19	24.04	0.01
J & K		21.97	0.00	21.97	14.31	10.36	-3.96	32.32	8.08
Chandigarh				0.00	6.08	5.54	-0.55	5.54	0.00
Total	304.16	109.88	7.22	421.60	616.29	615.55	-0.74	1037.15	24.09

* 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	8572	0	-139	1111	7778	0	-169	1471	9256	15:00	0
Haryana	8104	13	-372	2256	7506	0	-102	2392	8563	21:00	30
Rajasthan	7071	158	-44	347	6860	0	-151	386	7404	21:00	10
Delhi	4513	6	-263	601	4289	0	93	173	5216	24:00	0
UP	11775	1780	-225	636	13178	745	235	1447	13434	1:00	585
Uttarakhand	1539	75	12	-176	1475	0	177	-259	1713	10:00	0
HP	1031	0	-83	-1590	828	0	118	-1682	1201	8:00	0
J&K	1808	452	17	-673	856	214	-159	-1096	1900	21:00	475
Chandigarh	246	0	-37	0	185	0	-1	0	306	15:00	0
Total	44659	2484	-1134	2512	42956	959	43	2832	45559	21:00	1636

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

Diversity is: 1.08

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	1423	1519	1612	34.52	1439	33.77	0.76
Rihand I STPS (2*500)	1000	776	919	724	18.45	769	18.09	0.35
Rihand II STPS (2*500)	1000	460	516	482	11.26	469	10.71	0.55
Rihand III STPS (2*500)	1000	963	1011	1020	22.66	944	22.54	0.11
Dadri I STPS (4*210)	840	805	510	188	7.42	309	7.78	-0.36
Dadri II STPS (2*490)	980	960	993	840	19.70	821	20.85	-1.15
Unchahar I TPS (2*210)	420	400	436	411	9.22	384	9.46	-0.25
Unchahar II TPS (2*210)	420	400	432	415	8.77	365	9.00	-0.24
Unchahar III TPS (1*210)	210	200	216	217	4.39	183	4.48	-0.10
ISTPP (Jhajjar) (3*500)	1500	1425	973	609	15.98	666	16.26	-0.28
Dadri GPS (4*130.19+2*154.51)	830	593	187	170	4.20	175	4.56	-0.37
Anta GPS (3*88.71+1*153.2)	419	289	208	214	5.26	219	5.21	0.06
Auraiya GPS (4*111.19+2*109.30)	663	634	142	136	3.57	149	3.38	0.19
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	-0.01
Singrauli Solar(15)	15	1	0	0	0.01	1	0.03	-0.02
KHEP(4*200)	800	855	854	854	20.59	858	20.52	0.07
Sub Total (A)	12112	10186	8916	7892	186	7752	187	-0.67
B. NPC								
NAPS (2*220)	440	383	412	429	9.17	382	9.19	-0.03
RAPS- B (2*220)	440	177	205	203	4.25	177	4.25	0.00
RAPS- C (2*220)	440	405	439	438	9.41	392	9.72	-0.31
Sub Total (B)	1320	965	1056	1070	22.82	951	23.16	-0.34
C. NHPC								
Chamera I HPS (3*180)	540	540	548	548	13.11	546	12.96	0.15
Chamera II HPS (3*100)	300	301	309	306	7.30	304	7.22	0.08
Chamera III HPS (3*77)	231	224	226	226	4.89	204	4.88	0.01
Bairasuli HPS(3*60)	180	179	183	124	2.59	108	2.48	0.11
Salal-HPS (6*115)	690	662	670	669	16.13	672	15.89	0.24
Tanakpur-HPS (3*31.4)	94	87	93	94	2.22	92	2.10	0.12
Uri-I HPS (4*120)	480	335	361	359	8.31	346	8.03	0.28
Uri-II HPS (4*60)	240	191	203	183	4.79	199	4.58	0.21
Dhauliganga-HPS (4*70)	280	252	287	200	6.06	252	6.04	0.02
Dulhasti-HPS (3*130)	390	383	390	390	9.27	386	9.18	0.08
Sewa-II HPS (3*40)	120	119	128	0	1.55	65	1.50	0.05
Parbati 3 (4*130)	520	520	522	133	3.89	162	3.77	0.12
Sub Total (C)	4065	3792	3921	3231	80	3337	79	1.47
D. SJVNL								
NJPC (6*250)	1500	1605	1618	1616	38.49	1604	38.52	-0.03
Rampur HEP (6*68.67)	412	442	448	447	10.68	445	10.61	0.08
Sub Total (D)	1912	2047	2066	2063	49.17	2049	49.13	0.05
E. THDC								
Tehri HPS (4*250)	1000	1056	1055	266	13.38	557	13.00	0.38
Koteshwar HPS (4*100)	400	206	402	181	5.01	209	4.95	0.06
Sub Total (E)	1400	1263	1457	447	18.39	766	17.95	0.44
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	869	1325	668	20.75	864	20.87	-0.12
Dehar HPS (6*165)	990	611	825	560	14.80	617	14.66	0.14
Pong HPS (6*66)	396	295	396	198	6.95	289	7.08	-0.13
Sub Total (F)	2765	1775	2546	1426	42.50	1771	42.61	-0.11
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	230	145	3.58	149	3.55	0.03
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	95	2.37	99	2.22	0.15
Shree Cement TPS (2*150)	300	0	144	144	3.44	143	3.57	-0.13
Budhil HPS(IPP) (2*35)	70	0	74	74	1.66	69	1.75	-0.09
Sub Total (G)	1662	0	1660	1559	37.41	1559	37.17	0.23
H. Total Regional Entities (A-G)	25237	20028	21622	17688	436.41	18184	435.35	1.06

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	320	320	7.09	295	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	1.99	83	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	190	193	4.24	177	
	Goindwal(GVK) (2*270)	540	0	0	-0.08	-3	
	Rajpura (2*700)	1400	1320	920	24.57	1024	
	Talwandi Saboo (3*660)	1980	1290	1283	31.53	1314	
	Thermal (Total)	6560	3210	2806	69.33	2889	
	Total Hydro	1000	791	610	16.10	671	
	Total Punjab	7560	4001	3416	85.42	3559	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	481	240	7.31	305	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	167	167	3.90	162	
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	757	745	18.50	771	
Thermal (Total)		4497	1405	1152	29.71	1238	
Total Hydro		62	41	40	0.98	41	
Total Haryana		4559	1446	1192	30.69	1279	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	463	473	11.96	498
	suratgarh TPS (6*250)	1500	0	0	0.00	0	
	Chabra TPS (4*250)	1000	152	431	6.47	270	
	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	141	160	3.46	144	
	RAPS A (NPC) (1*100+1*200)	300	166	165	4.14	172	
	Barsingsar (NLC) (2*125)	250	227	226	5.36	223	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	703	698	16.24	677	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	517	462	11.49	479	
	Kawai(Adani) (2*660)	1320	456	615	13.06	544	
	Thermal (Total)	8876	2825	3230	72	3007	
	Total Hydro	550	251	305	6.21	259	
	Wind power	3214	563	283	6.58	274	
	Biomass	99	18	18	0.44	18	
	Solar	730	0	0	0.20	9	
	Renewable/Others (Total)	4043	581	301	7.22	301	
	Total Rajasthan	13469	3657	3836	85.61	3567	
	UP	Anpara TPS (3*210+2*500)	1630	792	694	17.83	743
Obra TPS (2*50+2*94+5*200)		1194	231	222	5.38	224	
Paricha TPS (2*110+2*220+2*250)		1160	804	811	19.21	800	
Panki TPS (2*105)		210	135	68	2.04	85	
Harduaganj TPS (1*60+1*105+2*250)		665	427	442	10.52	438	
Tanda TPS (NTPC) (4*110)		440	367	389	8.73	364	
Roza TPS (IPP) (4*300)		1200	1103	1099	26.18	1091	
Anpara-C (IPP) (2*600)		1200	423	990	15.08	629	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	243	243	6.06	253	
Anpara-D(2*500)		1000	0	0	0.00	0	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	0	0	0.00	0	
Thermal (Total)		12449	4525	4958	111	4626	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.47	436	
Alaknanda(4*82.5)		330	338	336	7.63	318	
Other Hydro		527	294	290	6.53	272	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	5642	6069	137	5703	
Uttarakhand		Total Hydro	1398	847	786	19.71	821
		Total Gas	225	48	0	0.34	14
	Total Uttarakhand	1623	895	786	20	835	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	72	70	1.70	71	
	Pragati Gas Turbine (2x104+ 1x122)	330	265	150	5.15	215	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	250	6.03	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.84	327	
	Thermal (Total)	2917	917	800	20.71	863	
	Total Delhi	2917	917	800	20.71	863	
HP	Baspa HPS (IPP) (3*100)	300	315	0	2.18	91	
	Malana HPS (IPP) (2*43)	86	101	77	2.08	86	
	Other Hydro	878	662	676	16.03	668	
	Total HP	1264	1078	753	20.29	845	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733	
	Other Hydro/IPP	560	184	185	4.38	182	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	917	918	21.97	915	
Total State Control Area Generation		47619	18553	17770	421.60	17567	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7007	7007	8867	199.36	8307	
Total Regional Availability(Gross)		72856	47182	44325	1057.37	44057	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	12286	9361	243.05	10127
State Control Area Hydro		7106	5040	4473	110.22	4592
Total Regional Hydro		19340	17326	13834	353.27	14719

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-500	-50	0	500	0.00	6.07	-6.07
765 KV Gwalior-Agra (D/C)	1908	2404	2638	0	50.29	0.00	50.29
400 KV Zerda-Kankroli	25	63	116	174	0.07	0.00	0.07
400 KV Zerda-Bhinmal	1	85	175	130	0.92	0.00	0.92
220 KV Auraiya-Malanpur	-41	-7	0	75	0.00	0.57	-0.57
220 KV Badod-Kota/Morak	101	151	205	0	3.05	0.00	3.05
Mundra-Mohindergarh(HVDC Bipole)	2202	2303	2304	0.00	54.54	0.00	54.54
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	887	1010	1212	0	21.91	0.00	21.91
Sub Total WR	4583	5959			130.78	6.64	124.14
Pusauli Bypass/HVDC	250	250	250	0	5.42	0.00	5.42
400 KV MZP- GKP (D/C)	60	492	610	10	9.66	0.00	9.66
400 KV Patna-Balia(D/C) X 2	543	341	669	0	12.35	0.00	12.35
400 KV B'Sharif-Balia (D/C)	38	216	298	0	4.17	0.00	4.17
765 KV Gaya-Balia	164	231	285	0	2.81	0.00	2.81
765 KV Gaya-Varanasi (D/C)	331	517	588	0	11.49	0.00	11.49
220 KV Pusauli-Sahupuri	156	186	235	0	3.94	0.00	3.94
132 KV K'nasa-Sahupuri	-20	-30	0	32	0.00	0.43	-0.43
132 KV Son Ngr-Rihand	-10	-38	0	38	0.00	0.34	-0.34
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-234	-208	61	234	0.00	2.52	-2.52
400 KV Barh -GKP (D/C)	438	344	510	0	8.90	0.00	8.90
400 kV B'Sharif - Varanasi (D/C)	33	-62	-221	87	2.57	0.00	2.57
Sub Total ER	1749	2239			61.29	3.29	58.00
+/- 800 KV BiswanathChariali-Agra	675	669	687	0.00	17.22	0.00	17.22
Sub Total NER	675	669			17.22	0.00	17.22
Total IR Exch	7007	8867			209.29	9.93	199.36

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
38.99	3.67	42.65	39.54	14.09	-3.96	-1.17	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
78.23	127.73	205.96	75.22	124.14	199.36	-3.01	-3.59	-6.60

V(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-31	-25	0	32	0	1	-0.63

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	0.20	1.82	10.69	63.18	78.00	9.00	2.34	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	17.02	49.65	19.22	49.97	0.053	0.068	50.16	0.00	22.00

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	410	0:00	408	16:37	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	18:02	404	0:12	0.0	0.0	0.1	0.0	0.1
Bareilly(PG)400kV	400	417	17:14	399	13:40	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	6:01	406	0:10	0.0	0.0	0.0	0.0	0.0
Dadri	400	415	5:33	398	11:15	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	423	6:01	402	14:23	0.0	0.0	3.3	0.0	3.3
Bawana	400	414	18:02	400	13:55	0.0	0.0	0.0	0.0	0.0
Bassi	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Hissar	400	411	6:01	393	13:59	0.0	0.0	0.0	0.0	0.0
Moga	400	409	5:54	396	11:11	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	413	6:02	398	13:56	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	416	5:45	402	14:24	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	412	6:01	400	19:38	0.0	0.0	0.0	0.0	0.0
Wagoora	400	410	3:45	386	19:39	0.0	6.1	0.0	0.0	0.0
Amritsar	400	415	6:30	399	19:43	0.0	0.0	0.0	0.0	0.0
Kashipur	400	418	12:43	418	12:43	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	413	4:26	405	15:16	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	415	17:04	390	13:55	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)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	790	6:01	752	13:58	0.0	0.0	0.0	0.0	0.0
Balia	765	797	17:20	768	0:10	0.0	0.0	0.0	0.0	0.0
Moga	765	792	18:01	761	11:15	0.0	0.0	0.0	0.0	0.0
Agra	765	793	6:03	761	13:55	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	778	17:16	748	0:37	0.0	0.0	0.0	0.0	0.0
Lucknow	765	797	17:16	762	0:36	0.0	0.0	0.0	0.0	0.0
Meerut	765	800	5:36	767	13:57	0.0	0.0	0.0	0.0	0.0
Jhatikara	765	794	6:01	764	13:56	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	783	5:36	756	0:36	0.0	0.0	0.0	0.0	0.0
Anta	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Phagi	765	792	4:24	771	11:13	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	498.38	1029.80	509.78	1530.03	1097.31	650.04
Pong	426.72	384.05	415.14	680.86	422.56	1005.78	520.26	430.98
Tehri	829.79	740.04	813.75	877.26	814.95	902.26	565.22	305.00
Koteshwar	612.50	598.50	610.82	4.95	610.39	4.76	305.00	330.25
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	309.81	0.00
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	519.15	4.68	522.33	13.88	344.44	226.07

* 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	1467	4	0	1111	0	0	36.39	2.67	39.06
Delhi	483	-309	0	651	-50	0	17.05	-4.40	12.65
Haryana	2058	322	13	1914	329	13	44.39	5.15	49.54
HP	-1370	-312	0	-1223	-368	0	-29.99	-7.45	-37.43
J&K	-583	-513	0	-658	-15	0	-16.09	-3.95	-20.03
CHD	0	0	0	0	0	0	0.36	0.00	0.36
Rajasthan	-129	511	4	-129	472	4	-3.08	14.02	10.93
UP	956	491	0	636	0	0	16.65	2.47	19.12
Uttarakhand	-126	-134	0	-126	-51	0	-3.02	-1.04	-4.06
Total	2756	59	17	2177	318	17	62.66	7.48	70.14

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1820	1009	736	0	0	0
Delhi	904	483	277	-566	0	0
Haryana	2243	1653	389	-750	13	13
HP	-1091	-1370	-256	-368	0	0
J&K	-583	-809	-15	-513	0	0
CHD	44	0	0	0	0	0
Rajasthan	-129	-129	1119	470	4	4
UP	972	547	491	0	0	0
Uttarakhand	-126	-126	48	-149	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	6.94%

(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 22.08.2016 :

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.