

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारशिष्ट की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 24.08.2016

Date of Reporting : 25.08.2016



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
42694	1861	44555	50.12	43480	1402	44882	50.04	1010.6	17.14

*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	64.93	14.73		79.67	103.56	103.21	-0.35	182.88	0.00
Haryana	31.51	1.00		32.51	134.29	129.72	-4.57	162.22	0.00
Rajasthan	82.68	7.85	8.26	98.79	62.93	63.12	0.20	161.92	0.00
Delhi	21.19			21.19	83.10	83.04	-0.06	104.23	0.04
UP	116.96	25.38		142.34	150.30	152.77	2.47	295.11	7.35
Uttarakhand		19.56		20.27	15.79	17.83	2.04	38.11	0.90
HP		26.12		26.12	-2.45	-0.91	1.54	25.21	0.06
J & K		21.97	0.00	21.97	14.33	13.21	-1.12	35.18	8.79
Chandigarh				0.00	5.88	5.72	-0.16	5.72	0.00
Total	317.27	116.61	8.26	442.86	567.72	567.72	0.00	1010.57	17.14

* 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	6727	0	-28	1011	8236	0	130	1138	8828	10:00	0
Haryana	6884	0	-542	2287	7522	0	-129	2233	7859	1:00	0
Rajasthan	7135	0	-44	363	6838	0	65	382	7561	21:00	0
Delhi	4517	92	58	223	4402	0	101	223	5037	1:00	0
UP	12840	1150	139	739	12894	1155	400	1690	13759	23:00	0
Uttarakhand	1643	145	139	-20	1482	0	90	-124	1780	21:00	75
HP	1047	61	302	-1591	906	0	28	-1175	1271	8:00	0
J&K	1651	413	122	-647	988	247	-179	-1049	1812	21:00	453
Chandigarh	251	0	-6	-20	211	0	14	-30	289	15:00	0
Total	42694	1861	139	2346	43480	1402	520	3288	44569	1:00	981

\$ 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	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1250	1385	1405	30.25	1260	29.26	0.98
Rihand I STPS (2*500)	1000	930	1019	969	20.99	875	21.35	-0.36
Rihand II STPS (2*500)	1000	450	511	515	10.60	442	10.39	0.22
Rihand III STPS (2*500)	1000	666	960	517	15.50	646	15.12	0.38
Dadri I STPS (4*210)	840	805	756	669	15.81	659	16.29	-0.48
Dadri II STPS (2*490)	980	960	952	857	20.94	873	21.91	-0.97
Unchahar I TPS (2*210)	420	400	438	428	8.89	371	9.43	-0.54
Unchahar II TPS (2*210)	420	400	432	427	8.56	357	9.31	-0.75
Unchahar III TPS (1*210)	210	200	213	207	4.02	167	4.53	-0.52
ISTPP (Jhajjar) (3*500)	1500	1391	1460	1062	24.26	1011	24.73	-0.48
Dadri GPS (4*130.19+2*154.51)	830	792	389	374	8.25	344	8.82	-0.57
Anta GPS (3*88.71+1*153.2)	419	361	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	628	152	155	3.55	148	3.60	-0.05
Dadri Solar(5)	5	1	0	0	0.01	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.05	2	0.05	-0.01
Singrauli Solar(15)	15	1	0	0	0.00	0	0.01	-0.01
KHEP(4*200)	800	855	854	854	20.58	857	20.52	0.06
Sub Total (A)	12112	10091	9521	8439	192	8010	195	-3.10
B. NPC								
NAPS (2*220)	440	382	417	420	9.11	380	9.17	-0.05
RAPS- B (2*220)	440	177	206	204	4.20	175	4.25	-0.05
RAPS- C (2*220)	440	405	436	441	9.41	392	9.72	-0.31
Sub Total (B)	1320	964	1059	1065	22.72	947	23.14	-0.42
C. NHPC								
Chamera I HPS (3*180)	540	540	554	546	13.08	545	12.96	0.12
Chamera II HPS (3*100)	300	301	308	304	7.27	303	7.22	0.05
Chamera III HPS (3*77)	231	226	226	230	5.41	226	5.43	-0.01
Bairasuli HPS(3*60)	180	179	184	123	2.54	106	2.48	0.06
Salal-HPS (6*115)	690	662	668	669	16.10	671	15.89	0.22
Tanakpur-HPS (3*31.4)	94	88	93	92	2.21	92	2.11	0.11
Uri-I HPS (4*120)	480	309	346	322	7.70	321	7.41	0.29
Uri-II HPS (4*60)	240	173	185	168	4.27	178	4.15	0.11
Dhauliganga-HPS (4*70)	280	210	211	213	5.08	212	5.04	0.04
Dulhasti-HPS (3*130)	390	383	390	390	9.23	385	9.18	0.04
Sewa-II HPS (3*40)	120	119	129	0	2.15	90	2.14	0.01
Parbati 3 (4*130)	520	417	0	0	2.58	107	2.73	-0.15
Sub Total (C)	4065	3606	3293	3057	78	3234	77	0.89
D. SJVNL								
NJPC (6*250)	1500	226	446	0	6.10	254	6.17	-0.07
Rampur HEP (6*68.67)	412	74	90	0	1.64	68	1.49	0.15
Sub Total (D)	1912	299	536	0	7.74	323	7.67	0.08
E. THDC								
Tehri HPS (4*250)	1000	1060	1068	268	18.38	766	17.72	0.67
Koteshwar HPS (4*100)	400	275	402	175	6.65	277	6.60	0.05
Sub Total (E)	1400	1335	1470	443	25.03	1043	24.32	0.72
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	876	1325	668	20.93	872	21.03	-0.10
Dehar HPS (6*165)	990	608	825	560	14.80	617	14.59	0.21
Pong HPS (6*66)	396	331	396	330	7.72	322	7.94	-0.22
Sub Total (F)	2765	1815	2546	1558	43.45	1810	43.56	-0.11
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	231	159	4.40	183	4.04	0.36
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	0	6.21	259	6.11	0.10
Malana Stg-II HPS (2*50)	100	0	112	112	2.62	109	2.48	0.14
Shree Cement TPS (2*150)	300	0	148	147	3.50	146	4.27	-0.77
Budhil HPS(IPP) (2*35)	70	0	74	74	1.74	73	1.75	-0.01
Sub Total (G)	1662	0	1664	491	18.47	769	18.65	-0.19
H. Total Regional Entities (A-G)	25237	18110	20090	15053	387.28	16137	389.41	-2.13

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	320	5.63	234	
	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	192	194	4.41	184	
	Goindwal(GVK) (2*270)	540	0	0	-0.06	-2	
	Rajpura (2*700)	1400	660	1320	23.33	972	
	Talwandi Saboo (3*660)	1980	1114	1904	29.62	1234	
	Thermal (Total)	6560	2216	3828	64.93	2706	
	Total Hydro	1000	574	604	14.73	614	
	Total Punjab	7560	2790	4432	79.67	3319	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
		DCRTPP (Yamuna nagar) (2*300)	600	472	494	11.24	468
Faridabad GPS (NTPC)(2*137.75+1*156)		432	321	166	6.33	264	
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	377	742	13.94	581	
Thermal (Total)		4497	1170	1402	31.51	1313	
Total Hydro		62	41	41	1.00	42	
Total Haryana		4559	1211	1443	32.51	1355	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	738	691	18.12	755
	suratgarh TPS (6*250)	1500	393	390	9.21	384	
	Chabra TPS (4*250)	1000	365	393	9.91	413	
	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	82	147	2.74	114	
	RAPS A (NPC) (1*100+1*200)	300	163	165	4.03	168	
	Barsingsar (NLC) (2*125)	250	227	229	5.36	223	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	419	689	14.99	625	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	409	495	11.16	465	
	Kawai(Adani) (2*660)	1320	268	343	7.16	298	
	Thermal (Total)	8876	3064	3542	83	3445	
	Total Hydro	550	304	350	7.85	327	
	Wind power	3214	1006	128	5.86	244	
	Biomass	99	17	17	0.42	17	
	Solar	730	0	0	1.99	83	
	Renewable/Others (Total)	4043	1023	145	8.26	344	
	Total Rajasthan	13469	4391	4037	98.79	4116	
	UP	Anpara TPS (3*210+2*500)	1630	759	706	16.90	704
		Obra TPS (2*50+2*94+5*200)	1194	227	268	5.40	225
Paricha TPS (2*110+2*220+2*250)		1160	884	816	20.10	838	
Panki TPS (2*105)		210	140	144	3.30	138	
Harduaganj TPS (1*60+1*105+2*250)		665	537	512	12.50	521	
Tanda TPS (NTPC) (4*110)		440	350	360	8.36	348	
Roza TPS (IPP) (4*300)		1200	1094	1098	26.30	1096	
Anpara-C (IPP) (2*600)		1200	297	0	2.40	100	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	405	9.60	400	
Anpara-D(2*500)		1000	0	0	0.00	0	
Lalitpur TPS(3*660)		1980	441	444	10.90	454	
Bara(2*660)		1320	0	0	0.00	0	
Thermal (Total)		12449	5134	4753	116	4823	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438	
Alaknanda(4*82.5)		330	335	338	8.10	338	
Other Hydro		527	302	300	6.78	283	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	6256	5876	142	5931	
Uttarakhand		Total Hydro	1398	842	824	19.56	815
		Total Gas	225	18	35	0.71	30
	Total Uttarakhand	1623	860	859	20	845	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	72	71	1.72	72	
	Pragati Gas Turbine (2x104+ 1x122)	330	265	255	6.39	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	253	253	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	310	328	7.06	294	
	Thermal (Total)	2917	900	907	21.19	883	
	Total Delhi	2917	900	907	21.19	883	
HP	Baspa HPS (IPP) (3*100)	300	331	321	7.50	312	
	Malana HPS (IPP) (2*43)	86	104	104	2.42	101	
	Other Hydro	878	675	683	16.20	675	
	Total HP	1264	1110	1108	26.12	1088	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733	
	Other Hydro/IPP	560	181	185	4.38	182	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	914	918	21.97	915	
Total State Control Area Generation		47619	18432	19580	442.86	18452	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6630	9887	196.43	8185	
Total Regional Availability(Gross)		72856	45152	44520	1026.57	42774	
IV. Total Hydro Generation:							
Regional Entities Hydro		12234	10142	6182	187.65	7819	
State Control Area Hydro		7106	4875	4953	117.32	4888	
Total Regional Hydro		19340	15017	11135	304.97	12707	

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	-100	200	500	0.80	5.40	-4.60
765 KV Gwalior-Agra (D/C)	1891	2582	3019	0	53.86	0.00	53.86
400 KV Zerda-Kankroli	-22	81	226	105	1.66	0.00	1.66
400 KV Zerda-Bhinmal	-13	100	281	164	2.02	0.00	2.02
220 KV Auraiya-Malanpur	-53	3	0	53	0.00	0.16	-0.16
220 KV Badod-Kota/Morak	83	115	172	44	2.30	0.00	2.30
Mundra-Mohinderghar(HVDC Bipole)	1998	2496	2506	0.00	47.26	0.00	47.26
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	974	1159	1400	883	26.39	0.00	26.39
Sub Total WR	4608	6436			134.29	5.56	128.73
Pusauli Bypass/HVDC	250	250	250	0	6.05	0.00	6.05
400 KV MZP- GKP (D/C)	76	260	672	0	7.54	0.00	7.54
400 KV Patna-Balia(D/C) X 2	286	713	713	0	12.58	0.00	12.58
400 KV B'Sharif-Balia (D/C)	-21	94	219	0	2.27	0.00	2.27
765 KV Gaya-Balia	209	319	378	0	3.45	0.00	3.45
765 KV Gaya-Varanasi (D/C)	259	556	716	0	11.52	0.00	11.52
220 KV Pusauli-Sahupuri	233	163	239	0	4.38	0.00	4.38
132 KV K'nasa-Sahupuri	-20	-32	0	36	0.00	0.61	-0.61
132 KV Son Ngr-Rihand	-28	-30	0	40	0.00	0.60	-0.60
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-328	-234	0	376	0.00	5.10	-5.10
400 KV Barh -GKP (D/C)	304	540	540	0	9.51	0.00	9.51
400 kV B'Sharif - Varanasi (D/C)	102	-48	187	116	1.21	0.00	1.21
Sub Total ER	1322	2551			58.50	6.31	52.19
+/- 800 KV BiswanathCharialli-Agra	700	900	900	0.00	15.52	0.00	15.52
Sub Total NER	700	900			15.52	0.00	15.52
Total IR Exch	6630	9887			208.31	11.87	196.43

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
39.19	3.67	42.86	38.71	14.01	2.44	7.69	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
84.01	128.25	212.26	67.70	128.73	196.43	-16.30	0.48	-15.82

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	-22	0	30	0	1	-0.61

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	1.03	6.28	46.12	70.54	18.48	4.73	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)		
50.20	18.02	49.71	19.14	50.00	0.044	50.20	0.00	29.46	

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	417	5:37	407	11:38	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	5:48	398	14:15	0.0	0.0	0.6	0.0	0.6
Bareilly(PG)400kV	400	418	6:02	398	14:17	0.0	0.0	0.0	0.0	0.0
Kanpur	400	423	5:36	402	14:15	0.0	0.0	4.5	0.0	4.5
Dadri	400	415	5:36	399	11:57	0.3	0.3	0.0	0.0	0.3
Ballabgarh	400	425	5:59	402	14:16	0.0	0.0	12.5	0.0	12.5
Bawana	400	419	6:03	401	14:17	0.0	0.0	0.0	0.0	0.0
Bassi	400	425	6:05	403	11:54	0.0	0.0	12.4	0.0	12.4
Hissar	400	417	17:32	397	11:51	0.0	0.0	0.0	0.0	0.0
Moga	400	418	17:23	403	0:09	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	422	5:45	404	11:45	0.0	0.0	1.3	0.0	1.3
Nalagarh	400	425	5:51	412	0:00	0.0	0.0	31.5	0.0	31.5
Kishenpur	400	414	18:01	406	9:07	0.0	0.0	0.0	0.0	0.0
Wagoora	400	409	23:38	391	6:56	0.0	0.0	0.0	0.0	0.0
Amritsar	400	650	19:20	102	10:26	5.7	5.7	2.0	0.2	7.7
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	16:41	404	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	414	6:04	393	14:17	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	800	5:42	747	14:18	0.0	0.0	0.0	0.0	0.0
Balia	765	796	5:47	760	14:16	0.0	0.0	0.0	0.0	0.0
Moga	765	804	17:23	772	11:48	0.0	0.0	7.8	0.0	7.8
Agra	765	801	5:38	750	14:15	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Unnao	765	783	6:05	747	14:15	0.0	0.0	0.0	0.0	0.0
Lucknow	765	796	6:05	757	14:16	0.0	0.0	0.0	0.0	0.0
Meerut	765	807	6:02	768	14:17	0.0	0.0	15.9	0.0	15.9
Jhatikara	765	800	6:02	758	14:15	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	786	18:03	755	13:54	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	802	5:31	766	14:15	0.0	0.0	2.9	0.0	2.9

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	498.95	1053.16	510.10	1560.04	1110.19	653.78
Pong	426.72	384.05	415.32	693.24	422.62	1020.81	639.76	476.09
Tehri	829.79	740.04	814.65	895.26	815.05	902.26	468.54	416.00
Koteshwar	612.50	598.50	610.20	4.66	610.34	4.69	416.00	438.80
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	319.17	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	519.85	3.46	521.87	12.17	341.64	220.64

* 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	1135	3	0	974	36	0	31.44	2.60	34.04
Delhi	421	-181	-18	675	-452	0	15.49	-7.20	8.29
Haryana	1846	388	0	1914	374	0	41.12	5.95	47.07
HP	-1075	-100	0	-1228	-363	0	-24.93	-3.63	-28.55
J&K	-582	-467	0	-632	-15	0	-15.61	-3.14	-18.75
CHD	0	-30	0	0	-20	0	0.36	-0.26	0.09
Rajasthan	-129	511	0	-129	491	0	-3.08	12.06	8.97
UP	1087	603	0	739	0	0	19.03	6.29	25.32
Uttarakhand	-126	1	0	-126	106	0	-3.02	0.97	-2.05
Total	2578	728	-18	2188	158	0	60.80	13.63	74.43

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1711	957	569	0	0	0
Delhi	949	421	54	-561	0	-18
Haryana	2204	1182	423	-177	0	0
HP	-713	-1370	-28	-390	0	0
J&K	-582	-813	-15	-467	0	0
CHD	44	0	0	-35	0	0
Rajasthan	-129	-129	522	486	0	0
UP	1117	630	785	0	0	0
Uttarakhand	-126	-126	180	-150	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	0.69%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	15.63%
ER	0.00%
Simultaneous	4.86%

(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 24.08.2016 :

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

1. First time 220 kV Lucknow (PG)-Lucknow(UP) 1 & 2 charged at 1918 Hrs & 1920 Hrs respectively on 24.08.2016.
2. First time 220 kV Shahjahanpur(PG)-Hardoi (UP) charged at 1905 Hrs/24.08.2016.

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.