

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वाभिमूर्ति प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 31.08.2016

Date of Reporting : 01.09.2016



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
42462	805	43267	50.18	39063	254	39317	50.13	939.5	8.94

* 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	33.49	10.92		44.40	120.35	122.95	2.60	167.36	0.00
Haryana	5.45	0.83		6.28	125.95	122.05	-3.90	128.33	0.00
Rajasthan	70.00	7.73	7.31	85.04	68.92	69.56	0.64	154.60	0.00
Delhi	19.17			19.17	74.98	72.75	-2.23	91.93	0.06
UP	134.76	23.77		158.53	137.70	135.00	-2.70	293.53	0.00
Uttarakhand		20.57		23.13	14.54	15.00	0.47	38.13	0.00
HP		25.43		25.43	-1.77	-0.90	0.86	24.53	0.00
J & K		21.96	0.00	21.96	18.41	13.56	-4.85	35.52	8.88
Chandigarh				0.00	6.14	5.57	-0.57	5.57	0.00
Total	262.87	111.21	7.31	383.94	565.24	555.55	-9.68	939.49	8.94

* 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	7479	0	128	1108	6105	0	201	1372	7635	16:00	0
Haryana	6441	0	-184	2344	5667	0	-157	2321	6955	21:00	0
Rajasthan	7309	0	242	403	6188	0	44	315	7391	21:00	0
Delhi	4221	0	-34	164	3827	0	9	175	4314	1:00	0
UP	12049	350	-767	630	13638	0	-718	1497	14247	1:00	0
Uttarakhand	1786	0	81	-8	1534	0	98	-116	1786	20:00	0
HP	1111	0	99	-1721	898	0	47	-1715	1210	8:00	0
J&K	1820	455	-93	-586	1016	254	-295	-1085	1846	21:00	461
Chandigarh	247	0	-35	0	190	0	-18	0	279	15:00	0
Total	42462	805	-563	2332	39063	254	-789	2765	43640	1	461

* 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	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1680	1749	1602	37.42	1559	37.17	0.25
Rihand I STPS (2*500)	1000	943	942	763	18.26	761	18.07	0.18
Rihand II STPS (2*500)	1000	963	931	647	17.78	741	17.79	-0.01
Rihand III STPS (2*500)	1000	963	937	657	17.46	727	17.90	-0.45
Dadri I STPS (4*210)	840	815	341	437	8.12	338	8.30	-0.18
Dadri II STPS (2*490)	980	960	817	698	15.99	666	16.47	-0.47
Unchahar I TPS (2*210)	420	350	276	261	5.82	243	6.07	-0.25
Unchahar II TPS (2*210)	420	400	299	264	6.18	258	6.87	-0.69
Unchahar III TPS (1*210)	210	200	148	134	3.18	132	3.46	-0.28
ISTPP (Jhajjar) (3*500)	1500	1425	304	621	10.36	432	10.58	-0.22
Dadri GPS (4*130.19+2*154.51)	830	792	357	284	7.15	298	7.49	-0.34
Anta GPS (3*88.71+1*153.2)	419	409	249	208	4.94	206	4.94	0.00
Auraiya GPS (4*111.19+2*109.30)	663	624	96	295	5.42	226	6.04	-0.62
Dadri Solar(5)	5	0	0	0	0.01	0	0.01	0.00
Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	0.00
Singrauli Solar(15)	15	2	0	0	0.00	0	0.05	-0.05
KHEP(4*200)	800	855	856	855	20.64	860	20.52	0.12
Sub Total (A)	12112	11384	8302	7726	179	7448	182	-3.00
B. NPC								
NAPS (2*220)	440	192	208	211	4.33	180	4.61	-0.28
RAPS- B (2*220)	440	365	418	415	8.86	369	8.76	0.10
RAPS- C (2*220)	440	390	436	430	9.31	388	9.36	-0.05
Sub Total (B)	1320	947	1062	1056	22.50	938	22.73	-0.23
C. NHPC								
Chamera I HPS (3*180)	540	540	547	547	13.21	550	12.96	0.25
Chamera II HPS (3*100)	300	301	309	304	7.28	304	7.22	0.06
Chamera III HPS (3*77)	231	225	227	230	5.42	226	5.40	0.03
Bairasuli HPS(3*60)	180	179	184	50	3.13	130	3.05	0.08
Salal-HPS (6*115)	690	662	678	678	16.31	680	15.89	0.43
Tanakpur-HPS (3*31.4)	94	91	94	96	2.28	95	2.20	0.09
Uri-I HPS (4*120)	480	447	448	465	10.89	454	10.72	0.16
Uri-II HPS (4*60)	240	237	241	241	5.75	240	5.69	0.06
Dhauliganga-HPS (4*70)	280	210	209	209	5.06	211	5.04	0.02
Dulhasti-HPS (3*130)	390	383	395	361	9.19	383	9.18	0.00
Sewa-II HPS (3*40)	120	119	115	0	2.08	87	2.05	0.04
Parbati 3 (4*130)	520	283	263	126	5.64	235	5.59	0.05
Sub Total (C)	4065	3677	3709	3307	86	3594	85	1.26
D. SJVNL								
NJPC (6*250)	1500	1605	1596	1585	38.45	1602	38.52	-0.07
Rampur HEP (6*68.67)	412	442	439	449	10.69	445	10.61	0.08
Sub Total (D)	1912	2047	2035	2034	49.14	2047	49.13	0.01
E. THDC								
Tehri HPS (4*250)	1000	1071	1044	0	12.45	519	12.00	0.45
Koteshwar HPS (4*100)	400	175	394	179	4.21	176	4.20	0.01
Sub Total (E)	1400	1246	1438	179	16.66	694	16.20	0.46
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	577	994	368	13.87	578	13.85	0.02
Dehar HPS (6*165)	990	588	825	560	14.06	586	14.11	-0.05
Pong HPS (6*66)	396	20	132	0	0.45	19	0.48	-0.03
Sub Total (F)	2765	1185	1951	928	28.37	1182	28.43	-0.06
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	222	231	5.03	210	4.61	0.43
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	890	25.38	1057	25.58	-0.21
Malana Stg-II HPS (2*50)	100	0	110	111	2.61	109	2.43	0.18
Shree Cement TPS (2*150)	300	0	268	239	5.83	243	6.00	-0.17
Budhil HPS(IPP) (2*35)	70	0	75	74	1.77	74	1.75	0.01
Sub Total (G)	1662	0	1775	1544	40.61	1692	40.37	0.25
H. Total Regional Entities (A-G)	25237	20486	20272	16775	422.29	17596	423.61	-1.31

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	0	0	-0.16	-7	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.05	-2	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.10	-4	
	Goindwal(GVK) (2*270)	540	0	0	-0.04	-1	
	Rajpura (2*700)	1400	1320	660	24.48	1020	
	Talwandi Saboo (3*660)	1980	569	308	9.36	390	
	Thermal (Total)	6560	1889	968	33.49	1395	
	Total Hydro	1000	508	423	10.92	455	
	Total Punjab	7560	2397	1391	44.40	1850	
	Haryana	Panipat TPS (2*210+2*250)	920	183	0	1.71	71
DCRTPP (Yamuna nagar) (2*300)		600	0	0	0.00	0	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	184	158	3.74	156	
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	367	158	5.45	227	
Total Hydro		62	36	35	0.83	35	
Total Haryana		4559	403	193	6.28	262	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	294	396	7.51	313
	suratgarh TPS (6*250)	1500	0	0	0.00	0	
	Chabra TPS (4*250)	1000	545	350	12.66	527	
	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	138	147	3.33	139	
	RAPS A (NPC) (1*100+1*200)	300	165	163	4.04	168	
	Barsingsar (NLC) (2*125)	250	225	225	5.23	218	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	704	440	12.69	529	
	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	1161	870	24.54	1023	
	Thermal (Total)	8876	3232	2591	70	2917	
	Total Hydro	550	296	308	7.73	322	
	Wind power	3214	303	429	6.94	289	
	Biomass	99	15	15	0.37	15	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	318	444	7.31	305	
	Total Rajasthan	13469	3846	3343	85.04	3543	
	UP	Anpara TPS (3*210+2*500)	1630	1081	1065	24.15	1006
Obra TPS (2*50+2*94+5*200)		1194	334	330	7.81	326	
Paricha TPS (2*110+2*220+2*250)		1160	654	832	16.35	681	
Panki TPS (2*105)		210	131	126	3.15	131	
Harduaganj TPS (1*60+1*105+2*250)		665	388	465	9.73	406	
Tanda TPS (NTPC) (4*110)		440	380	354	7.35	306	
Roza TPS (IPP) (4*300)		1200	752	820	18.72	780	
Anpara-C (IPP) (2*600)		1200	644	999	16.86	702	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	283	167	5.81	242	
Anpara-D(2*500)		1000	131	188	4.26	177	
Lalitpur TPS(3*660)		1980	356	462	8.82	368	
Bara(2*660)		1320	504	547	10.56	440	
Thermal (Total)		12449	5638	6355	134	5565	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.47	436	
Alaknanda(4*82.5)		330	336	337	8.08	337	
Other Hydro		527	228	232	5.22	217	
Cogeneration		981	50	50	1.20	50	
Total UP		14727	6687	7409	159	6605	
Uttarakhand		Total Hydro	1398	846	866	20.57	857
		Total Gas	225	126	102	2.56	107
	Total Uttarakhand	1623	972	968	23	964	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	37	74	1.27	53	
	Pragati Gas Turbine (2x104+ 1x122)	330	150	261	4.78	199	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	288	253	6.06	253	
	Badarpur TPS (NTPC) (3*95+2*210)	705	318	332	7.07	294	
	Thermal (Total)	2917	793	920	19.17	799	
	Total Delhi	2917	793	920	19.17	799	
HP	Baspa HPS (IPP) (3*100)	300	303	334	7.55	314	
	Malana HPS (IPP) (2*43)	86	106	106	2.53	106	
	Other Hydro	878	639	645	15.35	639	
	Total HP	1264	1048	1085	25.43	1059	
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	21.96	915	
Total State Control Area Generation		47619	17063	16227	383.94	15998	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6457.7	6563.68	153.79	6408	
Total Regional Availability(Gross)		72856	43792	39565	960.03	40001	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11421	8534	234.07	9753
State Control Area Hydro		7106	4776	4741	111.21	4740
Total Regional Hydro		19340	16197	13275	345.28	14493

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)	-300	-300	0	500	0.00	7.93	-7.93
765 KV Gwalior-Agra (D/C)	2819	2368	2902	0	54.59	0.00	54.59
400 KV Zerda-Kankroli	192	-9	192	88	0.14	0.00	0.14
400 KV Zerda-Bhinmal	0	-2	89	96	0.00	0.07	-0.07
220 KV Auraiya-Malanpur	-14	-23	0	55	0.00	0.55	-0.55
220 KV Badod-Kota/Morak	97	63	119	28	1.09	0.00	1.09
Mundra-Mohindergarh(HVDC Bipole)	1602	2302	2307	0.00	44.63	0.00	44.63
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1118	920	1212	0	22.88	0.00	22.88
Sub Total WR	5514	5319			123.31	8.56	114.76
Pusauli Bypass/HVDC	250	250	250	0	6.07	0.00	6.07
400 KV MZP- GKP (D/C)	270	502	594	0	10.83	0.00	10.83
400 KV Patna-Balia(D/C) X 2	353	256	380	0	6.65	0.00	6.65
400 KV B'Sharif-Balia (D/C)	73	87	175	0	2.25	0.00	2.25
765 KV Gaya-Balia	272	252	330	0	2.89	0.00	2.89
765 KV Gaya-Varanasi (D/C)	-462	-285	504	0	7.25	0.00	7.25
220 KV Pusauli-Sahupuri	183	196	205	0	4.47	0.00	4.47
132 KV K'nasa-Sahupuri	-24	-26	0	34	0.00	0.31	-0.31
132 KV Son Ngr-Rihand	-36	-34	0	38	0.00	0.81	-0.81
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-258	-311	0	322	0.00	6.12	-6.12
400 KV Barh -GKP (D/C)	316	316	364	0	6.61	0.00	6.61
400 kV B'Sharif - Varanasi (D/C)	7	42	49	101	0.00	0.75	-0.75
Sub Total ER	944	1245			47.02	7.99	39.03
+/- 800 KV BiswanathCharialli-Agra	0	0	0	0.00	0.00	0.00	0.00
Sub Total NER	0	0			0.00	0.00	0.00
Total IR Exch	6458	6564			170.33	16.54	153.79

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
27.99	3.50	31.50	38.14	12.79	-11.22	-0.13	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
58.41	102.28	160.69	39.03	114.76	153.79	-19.38	12.48	-6.90

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	28	0	0	30	0	0	-0.37

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	0.79	37.97	73.22	22.15	3.74	0.19	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)		
50.22	6.03	49.82	18.12	50.02	0.029	0.052	50.19	50.00	26.78

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	414	7:35	406	0:40	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	7:53	399	0:23	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	7:54	393	0:07	0.0	0.0	0.0	0.0	0.0
Kanpur	400	421	7:49	400	0:07	0.0	0.0	0.8	0.0	0.8
Dadri	400	419	6:03	401	19:34	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	426	6:01	406	19:34	0.0	0.0	36.6	0.0	36.6
Bawana	400	424	6:02	403	19:34	0.0	0.0	10.6	0.0	10.6
Bassi	400	424	3:59	399	19:34	0.0	0.0	19.3	0.0	19.3
Hissar	400	423	6:04	398	19:35	0.0	0.0	0.9	0.0	0.9
Moga	400	423	6:09	400	14:30	0.0	0.0	0.7	0.0	0.7
Abdullapur	400	423	6:05	399	19:41	0.0	0.0	0.8	0.0	0.8
Nalagarh	400	418	6:08	402	14:38	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	416	6:04	396	19:27	0.0	0.0	0.0	0.0	0.0
Wagoora	400	410	2:57	382	19:33	0.0	10.1	0.0	0.0	0.0
Amritsar	400	422	6:02	402	14:25	0.0	0.0	1.8	0.0	1.8
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	413	2:27	398	14:48	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	8:03	394	0:07	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	793	7:57	755	14:46	0.0	0.0	0.0	0.0	0.0
Balia	765	793	7:54	759	0:07	0.0	0.0	0.0	0.0	0.0
Moga	765	815	6:04	767	12:40	0.0	0.0	32.0	0.0	32.0
Agra	765	800	7:53	757	21:03	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	804	3:03	770	19:34	0.0	0.0	15.0	0.0	15.0
Unnao	765	780	7:55	746	0:21	0.0	0.0	0.0	0.0	0.0
Lucknow	765	795	7:55	760	0:20	0.0	0.0	0.0	0.0	0.0
Meerut	765	816	6:02	773	14:47	0.0	0.0	35.8	0.0	35.8
Jhatikara	765	807	6:03	767	19:34	0.0	0.0	6.4	0.0	6.4
Bareilly 765 kV	765	789	7:54	751	0:07	0.0	0.0	0.0	0.0	0.0
Anta	765	768	0:00	768	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	802	6:00	764	19:53	0.0	0.0	4.1	0.0	4.1

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	501.28	1153.36	511.16	1605.30	1039.34	411.81
Pong	426.72	384.05	417.18	768.49	422.77	1020.81	520.24	29.22
Tehri	829.79	740.04	818.85	982.26	817.55	962.25	442.57	277.00
Koteswar	612.50	598.50	610.62	4.95	609.67	4.43	277.00	277.78
Chamera-I	760.00	748.75	754.02	0.00	0.00	0.00	323.72	358.02
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	521.24	6.06	519.89	13.00	333.24	255.98

* 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	1346	26	0	1035	73	0	34.95	0.98	35.93
Delhi	436	-261	0	724	-560	0	16.99	-9.16	7.82
Haryana	2067	241	13	2013	317	14	46.33	3.95	50.28
HP	-1379	-335	0	-1130	-591	0	-29.92	-8.14	-38.06
J&K	-572	-513	0	-572	-15	0	-14.88	-3.83	-18.72
CHD	0	0	0	0	0	0	0.36	-0.05	0.30
Rajasthan	-230	542	4	-129	527	4	-4.00	13.16	9.16
UP	1104	393	0	630	0	0	17.48	2.65	20.13
Uttarakhand	-117	1	0	-117	109	0	-2.81	0.25	-2.57
Total	2655	92	18	2454	-140	18	64.48	-0.20	64.28

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1792	1032	82	17	0	0
Delhi	893	436	-102	-641	0	0
Haryana	2217	1752	343	-264	14	13
HP	-1100	-1379	-254	-615	0	0
J&K	-572	-717	0	-513	0	0
CHD	44	0	0	-30	0	0
Rajasthan	-129	-230	562	525	4	4
UP	1131	543	491	0	0	0
Uttarakhand	-117	-117	129	-108	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 31.08.2016 :

XV. Synchronisation of new generating units :

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

1. 125 MVAR Bus Reactor-1 at 765/400 KV Kanpur New GIS Sub Station first time test charged on 31.08.16/1423hrs.

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.