

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 01.08.2016
Date of Reporting : 02.08.2016



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
44617	613	45230	50.05	42534	239	42774	50.03	1019.9	8.95

* 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	83.68	16.72		100.39	130.16	130.70	0.54	231.09	0.00
Haryana	18.07	0.47		18.54	148.48	146.83	-1.66	165.36	0.00
Rajasthan	66.68	1.03	31.90	99.61	63.03	63.76	0.73	163.37	0.00
Delhi	18.02			18.02	76.63	74.70	-1.94	92.71	0.01
UP	107.77	19.70		127.47	144.07	143.48	-0.58	270.95	0.00
Uttarakhand		18.04		18.04	13.79	14.60	0.82	32.64	0.00
HP		24.52		24.52	-0.86	-0.15	0.71	24.36	0.45
J & K		22.24	0.00	22.24	15.69	11.70	-3.99	33.94	8.49
Chandigarh				0.00	6.29	5.50	-0.79	5.50	0.00
Total	294.21	102.71	31.90	428.82	597.28	591.12	-6.16	1019.94	8.95

* 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	9695	0	-203	1549	9131	0	44	1543	10102	16:00	0
Haryana	7624	0	-9	1922	6771	0	-126	2218	8365	21:00	0
Rajasthan	6728	0	-227	381	6655	0	-46	406	7050	23:00	0
Delhi	3939	0	-205	323	3626	0	-121	195	4526	16:00	0
UP	11805	200	123	679	13007	0	-152	978	13236	1:00	0
Uttarakhand	1643	0	210	-3	1179	0	-121	-45	1643	20:00	0
HP	1081	0	136	-1624	867	0	15	-1742	1182	10:00	2
J&K	1863	413	-51	-647	1098	239	-203	-1032	1711	21:00	428
Chandigarh	239	0	-33	0	201	0	-26	0	276	15:00	0
Total	44617	613	-260	2579	42534	239	-737	2521	45828	21:00	428

* 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 (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI [OG: (+ve), UG: (-ve)]	
	(Effective) MW							Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1704	1470	1338	35.69	1487	35.68	0.00
	Rihand I STPS (2*500)	1000	940	828	632	16.07	669	16.59	-0.52
	Rihand II STPS (2*500)	1000	952	796	660	15.68	653	16.35	-0.67
	Rihand III STPS (2*500)	1000	945	677	578	15.00	625	16.66	-1.67
	Dadri I STPS (4*210)	840	805	163	162	3.73	155	3.64	0.08
	Dadri II STPS (2*490)	980	960	662	661	15.62	651	16.07	-0.46
	Unchahar I TPS (2*210)	420	350	256	259	5.59	233	5.92	-0.33
	Unchahar II TPS (2*210)	420	400	256	239	5.63	235	6.74	-1.11
	Unchahar III TPS (1*210)	210	200	141	129	2.93	122	3.36	-0.43
	ISTPP (Jhajjar) (3*500)	1500	970	726	457	11.74	489	12.00	-0.26
	Dadri GPS (4*130.19+2*154.51)	830	793	156	149	3.56	148	3.53	0.03
	Anta GPS (3*88.71+1*153.2)	419	400	244	245	5.27	219	5.59	-0.32
	Auraiya GPS (4*111.19+2*109.30)	663	633	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	1	0	0	0.01	0	0.02	-0.01
	Unchahar Solar(10)	10	0	0	0	0.01	1	0.01	0.00
	Singrauli Solar(15)	15	1	0	0	0.03	1	0.03	0.00
	KHEP(4*200)	800	855	852	852	20.49	854	20.52	-0.03
	Sub Total (A)	12112	10908	7227	6361	157	6543	163	-5.67
B. NPC	NAPS (2*220)	440	387	421	428	9.26	386	9.29	-0.03
	RAPS- B (2*220)	440	176	204	203	4.26	178	4.22	0.04
	RAPS- C (2*220)	440	410	443	447	9.50	396	9.84	-0.34
	Sub Total (B)	1320	973	1068	1078	23.02	959	23.35	-0.33
C. NHPC	Chamera I HPS (3*180)	540	540	533	430	12.44	518	12.53	-0.09
	Chamera II HPS (3*100)	300	301	309	300	7.23	301	7.22	0.00
	Chamera III HPS (3*77)	231	229	228	232	5.46	228	5.50	-0.04
	Bairasuli HPS(3*60)	180	180	183	101	2.92	122	2.99	-0.07
	Salal-HPS (6*115)	690	611	565	674	15.19	633	14.67	0.52
	Tanakpur-HPS (3*31.4)	94	63	64	64	1.54	64	1.51	0.03
	Uri-I HPS (4*120)	480	408	432	323	9.77	407	9.80	-0.03
	Uri-II HPS (4*60)	240	234	236	239	5.66	236	5.62	0.04
	Dhauliganga-HPS (4*70)	280	210	210	205	5.03	210	5.04	-0.01
	Dulhasti-HPS (3*130)	390	381	389	384	9.19	383	9.14	0.05
	Sewa-II HPS (3*40)	120	119	124	41	2.43	101	2.50	-0.07
	Parbati 3 (4*130)	520	520	516	123	4.23	176	4.23	0.00
	Sub Total (C)	4065	3797	3789	3116	81	3378	81	0.34
D. SJVNL	NJPC (6*250)	1500	1605	1590	1563	38.08	1587	38.38	-0.29
	Rampur HEP (6*68.67)	412	442	439	444	10.57	440	10.61	-0.04
	Sub Total (D)	1912	2047	2029	2007	48.65	2027	48.98	-0.33
E. THDC	Tehri HPS (4*250)	1000	892	871	709	19.98	833	20.68	-0.70
	Koteswar HPS (4*100)	400	342	395	283	7.88	328	8.20	-0.32
	Sub Total (E)	1400	1234	1266	992	27.86	1161	28.88	-1.02
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	813	1321	635	19.39	808	19.50	-0.11
	Dehar HPS (6*165)	990	603	825	560	14.89	620	14.47	0.42
	Pong HPS (6*66)	396	231	310	186	5.50	229	5.53	-0.04
	Sub Total (F)	2765	1646	2456	1381	39.77	1657	39.51	0.27
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	231	198	5.11	213	4.89	0.22
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	25.80	1075	26.08	-0.28
	Malana Stg-II HPS (2*50)	100	0	112	112	2.64	110	2.50	0.14
	Shree Cement TPS (2*150)	300	0	253	220	5.60	233	5.75	-0.15
	Budhil HPS(IPP) (2*35)	70	0	73	70	0.17	7	1.66	-1.49
	Sub Total (G)	1662	0	1768	1699	39.31	1638	40.88	-1.57
H. Total Regional Entities (A-G)		25237	20605	19603	16635	416.73	17364	425.05	-8.32

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	660	660	14.76	615
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	2.03	84
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	565	389	10.55	440
	Goindwal(GVK) (2*270)	540	226	226	5.42	226
	Rajpura (2*700)	1400	1320	1320	30.42	1268
	Talwandi Saboo (3*660)	1980	1100	863	20.51	855
	Thermal (Total)	6560	3961	3548	83.68	3487
	Total Hydro	1000	724	676	16.72	696
	Total Punjab	7560	4685	4224	100.39	4183
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	461	464	10.50	437
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	308	308	7.58	316
	RGTPP (khardar) (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	769	772	18.07	753
	Total Hydro	62	0	37	0.47	20
	Total Haryana	4559	769	809	18.54	772
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	144	141	3.55	148
	suratgarh TPS (6*250)	1500	181	179	4.43	185
	Chabra TPS (4*250)	1000	609	745	15.76	657
	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	155	154	3.92	163
	RAPS A (NPC) (1*100+1*200)	300	159	151	3.87	161
	Barsingar (NLC) (2*125)	250	108	0	1.24	52
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	504	507	12.60	525
	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	883	871	21.32	888
	Thermal (Total)	8876	2743	2748	67	2778
	Total Hydro	550	62	30	1.03	43
	Wind power	3214	1208	2047	31.54	1314
	Biomass	99	108	0	0.36	15
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	1316	2047	31.90	1329
	Total Rajasthan	13469	4121	4825	99.61	4150
UP	Anpara TPS (3*210+2*500)	1630	1049	1104	23.90	996
	Obra TPS (2*50+2*94+5*200)	1194	351	378	8.70	363
	Paricha TPS (2*110+2*220+2*250)	1160	574	739	14.60	608
	Panki TPS (2*105)	210	131	122	3.10	129
	Harduaganj TPS (1*60+1*105+2*250)	665	395	537	10.20	425
	Tanda TPS (NTPC) (4*110)	440	238	280	5.37	224
	Roza TPS (IPP) (4*300)	1200	596	838	15.60	650
	Anpara-C (IPP) (2*600)	1200	999	1086	18.70	779
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	86	200	2.80	117
	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	3.60	150
	Thermal (Total)	12449	4419	5284	107	4440
	Vishnuparyag HPS (IPP)(4*110)	440	435	435	10.30	429
	Alaknanda(4*82.5)	330	341	340	8.10	338
	Other Hydro	527	58	53	1.30	54
	Cogeneration	981	50	50	1.20	50
	Total UP	14727	5303	6162	127	5311
Uttarakhand	Total Hydro	1398	710	828	18.04	752
	Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	710	828	18	752
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	39	74	1.55	64
	Pragati Gas Turbine (2x104+ 1x122)	330	151	150	3.62	151
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	251	6.03	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	320	320	6.83	285
	Thermal (Total)	2917	763	795	18.02	751
	Total Delhi	2917	763	795	18.02	751
HP	Baspa HPS (IPP) (3*100)	300	330	330	7.58	316
	Malana HPS (IPP) (2*43)	86	98	101	2.35	98
	Other Hydro	878	599	685	14.58	608
	Total HP	1264	1027	1116	24.52	1022
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733
	Other Hydro/IPP	560	211	140	4.65	194
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1500	944	873	22.24	927
Total State Control Area Generation		47619	18322	19632	428.82	17867
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7405.27	6438.32	198.72	8280
Total Regional Availability(Gross)		72856	45329	42705	1044.27	43511

IV. Total Hydro Generation:						
Regional Entities Hydro	12234	11834	9758	251.41	10476	
State Control Area Hydro	7106	4301	4388	102.71	4280	
Total Regional Hydro	19340	16135	14147	354.12	14755	

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)	-200	-500	0	500	0.00	9.00	-9.00
765 KV Gwalior-Agra (D/C)	2988	2349	2988	0	56.08	0.00	56.08
400 KV Zerda-Kankrol	138	-40	264	95	2.09	0.00	2.09
400 KV Zerda-Bhinmal	132	-76	326	118	2.36	0.00	2.36
220 KV Auraiya-Malanpur	57	17	0	30	0.75	0.00	0.75
220 KV Badod-Kota/Morak	133	127	209	0	3.26	0.00	3.26
Mundra-Mohindergarh(HVDC Bipole)	1198	1803	2004	0.00	39.78	0.00	39.78
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1130	826	1307	0	24.26	0.00	24.26
Sub Total WR	5576	4506			128.58	9.00	119.58
Pusauli Bypass/HVDC	-108	-80	0	108	0.00	1.79	-1.79
400 KV MZP- GKP (D/C)	362	420	576	0	10.74	0.00	10.74
400 KV Patna-Balia(D/C) X 2	537	504	602	0	13.02	0.00	13.02
400 KV B'Sharif-Balia (D/C)	230	250	344	0	5.63	0.00	5.63
765 KV Gaya-Balia	388	362	424	0	4.23	0.00	4.23
765 KV Gaya-Varanasi (D/C)	-649	-561	792	0	14.92	0.00	14.92
220 KV Pusauli-Sahupuri	153	229	232	0	4.38	0.00	4.38
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-30	-32	0	42	0.00	0.27	-0.27
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	97	-38	97	161	1.56	0.00	1.56
400 KV Barh -GKP (D/C)	500	500	520	0	10.33	0.00	10.33
400 kV B'Sharif - Varanasi (D/C)	-151	-122	243	0	4.55	0.00	4.55
Sub Total ER	1329	1432			69.34	2.06	67.27
+/- 800 KV BiswanathCharialli-Agra	500	500	500	0.00	11.87	0.00	11.87
Sub Total NER	500	500			11.87	0.00	11.87
Total IR Exch	7405	6438			209.79	11.07	198.72

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdli (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
38.25	3.24	41.49	37.16	14.45	-3.82	-3.78	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
74.83	115.89	190.72	79.14	119.58	198.72	4.31	3.70	8.01

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	-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	0.00	0.00	0.35	19.47	50.24	34.00	15.22	0.31	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	13.03	49.85	19.13	50.05	0.052	0.054	50.29	0.00	49.76

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	404	0:00	401	3:20	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	6:04	396	12:39	0.0	0.0	1.0	0.0	1.0
Bareilly(PG)400kV	400	399	0:00	399	0:00	0.0	0.0	0.0	0.0	0.0
Kanpur	400	416	6:40	390	14:43	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	6:01	389	14:47	0.0	0.4	0.0	0.0	0.0
Ballabgarh	400	424	6:02	388	14:49	0.0	0.4	6.1	0.0	6.1
Bawana	400	417	6:01	390	14:26	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	6:40	396	14:43	0.0	0.0	4.6	0.0	4.6
Hissar	400	416	6:02	388	14:20	0.0	2.8	0.0	0.0	0.0
Moga	400	413	6:08	388	14:19	0.0	3.3	0.0	0.0	0.0
Abdullapur	400	411	23:26	387	14:49	0.0	6.7	0.0	0.0	0.0
Nalagarh	400	419	6:00	391	14:25	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	410	6:35	389	14:19	0.0	0.2	0.0	0.0	0.0
Wagoora	400	410	5:36	384	14:10	0.0	15.5	0.0	0.0	0.0
Amritsar	400	416	4:03	393	12:23	0.0	0.0	0.0	0.0	0.0
Kashipur	400	419	6:03	406	12:40	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	414	4:03	399	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	429	23:55	398	12:11	0.0	0.0	26.7	0.0	26.7

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	784	6:08	733	14:43	0.0	4.0	0.0	0.0	0.0
Balia	765	781	6:04	737	14:43	0.0	3.9	0.0	0.0	0.0
Moga	765	774	16:59	752	15:17	0.0	0.0	0.0	0.0	0.0
Agra	765	794	6:07	743	14:48	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	6:08	746	14:24	0.0	0.0	0.0	0.0	0.0
Unnao	765	778	8:00	731	14:49	0.0	6.7	0.0	0.0	0.0
Lucknow	765	798	6:17	748	14:43	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	6:07	748	14:20	0.0	0.0	3.0	0.0	3.0
Jhatikara	765	796	4:27	742	14:49	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Anta	765	788	5:56	759	14:47	0.0	0.0	3.0	0.0	0.0
Phagi	765	796	6:08	754	14:21	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	486.58	627.57	503.14	1232.31	1187.58	646.84
Pong	426.72	384.05	403.40	296.79	416.31	730.66	1421.93	384.46
Tehri	829.79	740.04	793.15	500.50	793.70	508.00	1106.94	509.00
Koteshwar	612.50	598.50	609.47	4.44	611.03	5.20	509.00	519.99
Chamera-I	760.00	748.75	754.17	0.00	0.00	0.00	312.88	341.03
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	507.75	6.02	523.44	10.78	364.69	258.98

* 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	1430	113	0	1145	403	0	37.82	3.53	41.35
Delhi	626	-431	0	583	-260	0	16.37	-7.38	8.99
Haryana	1963	255	0	1606	317	0	42.03	6.62	48.65
HP	-1500	-243	0	-1222	-403	0	-31.54	-7.02	-38.55
J&K	-582	-450	0	-632	-15	0	-14.78	-3.25	-18.03
CHD	0	0	0	0	0	0	0.35	0.00	0.35
Rajasthan	-137	543	0	-137	518	0	-3.29	12.94	9.65
UP	978	0	0	679	0	0	17.30	0.00	17.30
Uttarakhand	-90	46	0	-89	85	0	-2.15	0.38	-1.77
Total	2689	-168	0	1934	645	0	62.12	5.83	67.95

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1815	1118	778	0	0	0
Delhi	844	567	-29	-604	0	0
Haryana	1991	1560	351	28	0	0
HP	-1218	-1501	-187	-504	0	0
J&K	-582	-733	0	-500	0	0
CHD	44	0	0	0	0	0
Rajasthan	-137	-137	548	518	0	0
UP	994	591	0	0	0	0
Uttarakhand	-88	-92	91	-201	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	0.69%
ER	0.00%
Simultaneous	4.51%

(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 01.08.2016 :

XV. Synchronisation of new generating units :

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

400kV Bus 1 at Rajpura (Punjab) first time charged at 1428 Hrs on 01-08-2016.

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.