

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 10.07.2016
Date of Reporting : 11.07.2016



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
45139	600	45738	50.05	44617	132	44749	50.03	1070.0	8.05

*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 *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	60.81	15.57		76.38	114.64	116.12	1.48	192.50	0.00
Haryana	44.96	0.83		45.80	133.60	131.93	-1.67	177.72	0.00
Rajasthan	102.60	0.41	16.80	119.82	60.81	64.13	3.33	183.95	0.00
Delhi	21.93			21.93	84.78	82.97	-1.82	104.90	0.02
UP	146.30	20.15		166.44	144.42	145.94	1.52	312.38	1.52
Uttarakhand		18.00		18.00	19.58	19.91	0.33	37.91	0.05
HP		20.39		20.39	3.32	3.65	0.33	24.04	0.00
J & K		22.48	0.00	22.48	13.32	8.22	-5.10	30.70	6.45
Chandigarh				0.00	5.79	5.90	0.12	5.90	0.00
Total	376.60	97.82	16.80	491.23	580.25	578.78	-1.47	1070.01	8.05

* 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	8733	0	94	1924	6587	0	-100	1878	9222	23:00	0
Haryana	7991	0	-178	1997	7827	0	94	2152	8612	21:00	0
Rajasthan	6764	0	159	-4	7978	0	218	19	8187	1:00	0
Delhi	4122	0	-247	523	4714	0	167	330	5192	24:00	0
UP	13153	210	-36	773	14175	0	114	1164	14530	2:00	0
Uttarakhand	1772	35	53	131	1624	0	43	44	1930	21:00	35
HP	925	0	-8	-1402	945	0	39	-1476	1142	10:00	0
J&K	1418	355	1	-660	528	132	-560	-872	1457	21:00	364
Chandigarh	261	0	-3	-20	239	0	25	0	312	23:00	0
Total	45139	600	-164	3261	44617	132	39	3239	48792	23:00	283

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

Diversity is: 1.04

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI [OG:(+ve), UG:(-ve)]	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1884	1877	1901	42.21	1759	42.84	-0.63	
Rihand I STPS (2*500)	1000	905	805	807	17.73	739	18.55	-0.82	
Rihand II STPS (2*500)	1000	961	735	1012	17.86	744	19.13	-1.28	
Rihand III STPS (2*500)	1000	961	829	909	18.74	781	20.77	-2.04	
Dadri I STPS (4*210)	840	805	458	462	10.17	424	10.39	-0.22	
Dadri II STPS (2*490)	980	960	765	725	16.25	677	16.78	-0.53	
Unchahar I TPS (2*210)	420	350	288	265	5.77	240	6.39	-0.62	
Unchahar II TPS (2*210)	420	400	321	304	6.31	263	7.18	-0.86	
Unchahar III TPS (1*210)	210	200	148	134	2.99	125	3.52	-0.53	
ISTPP (Jhajjar) (3*500)	1500	1425	941	972	20.95	873	21.30	-0.35	
Dadri GPS (4*130.19+2*154.51)	830	786	383	297	7.06	294	7.37	-0.31	
Anta GPS (3*88.71+1*153.2)	419	398	0	0	0.00	0	0.00	0.00	
Auraiya GPS (4*111.19+2*109.30)	663	632	0	0	0.00	0	0.00	0.00	
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00	
Unchahar Solar(10)	10	2	0	0	0.05	2	0.05	0.00	
Singrauli Solar(15)	15	3	0	0	0.06	3	0.07	-0.01	
KHEP(4*200)	800	855	851	851	20.53	855	20.52	0.01	
Sub Total (A)	12112	11528	8401	8639	187	7779	195	-8.20	
B. NPC									
NAPS (2*220)	440	380	423	418	9.22	384	9.12	0.10	
RAPS- B (2*220)	440	365	411	414	8.86	369	8.76	0.10	
RAPS- C (2*220)	440	405	434	439	9.44	393	9.72	-0.28	
Sub Total (B)	1320	1150	1268	1271	27.51	1146	27.60	-0.09	
C. NHPC									
Chamera I HPS (3*180)	540	543	543	0	5.16	215	5.18	-0.01	
Chamera II HPS (3*100)	300	301	308	305	7.25	302	7.22	0.03	
Chamera III HPS (3*77)	231	231	233	233	5.26	219	5.29	-0.03	
Bairasuli HPS(3*60)	180	180	173	60	1.85	77	1.86	-0.01	
Salal-HPS (6*115)	690	662	666	666	16.07	669	15.88	0.18	
Tanakpur-HPS (3*31.4)	94	91	70	94	2.24	93	2.17	0.06	
Uri-I HPS (4*120)	480	406	442	414	9.81	409	9.81	0.01	
Uri-II HPS (4*60)	240	233	237	240	5.67	236	5.59	0.08	
Dhauliganga-HPS (4*70)	280	280	281	281	6.66	278	6.72	-0.06	
Dulhasti-HPS (3*130)	390	258	273	269	6.33	264	6.19	0.14	
Sewa-II HPS (3*40)	120	119	126	0	0.51	21	0.50	0.01	
Parbati 3 (4*130)	520	390	394	0	3.02	126	2.95	0.07	
Sub Total (C)	4065	3692	3745	2562	70	2909	69	0.46	
D. SJVNL									
NJPC (6*250)	1500	1605	1608	1613	38.35	1598	38.52	-0.17	
Rampur HEP (6*68.67)	412	442	446	449	10.76	448	10.61	0.15	
Sub Total (D)	1912	2047	2054	2062	49.11	2046	49.13	-0.01	
E. THDC									
Tehri HPS (4*250)	1000	663	493	328	9.59	400	9.76	-0.17	
Koteshwar HPS (4*100)	400	242	374	184	4.59	191	4.67	-0.08	
Sub Total (E)	1400	905	867	512	14.18	591	14.43	-0.25	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	1044	1302	901	25.02	1043	25.06	-0.04	
Dehar HPS (6*165)	990	605	660	600	14.54	606	14.53	0.01	
Pong HPS (6*66)	396	90	208	0	2.14	89	2.16	-0.02	
Sub Total (F)	2765	1740	2170	1501	41.70	1738	41.75	-0.05	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	173	122	3.13	130	3.22	-0.09	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1100	1100	26.05	1085	26.08	-0.03	
Malana Stg-II HPS (2*50)	100	0	112	85	2.16	90	2.01	0.15	
Shree Cement TPS (2*150)	300	0	290	265	6.35	264	5.36	0.98	
Budhil HPS(IPP) (2*35)	70	0	69	68	1.61	67	1.73	-0.12	
Sub Total (G)	1662	0	1744	1640	39.29	1637	38.40	0.89	
H. Total Regional Entities (A-G)	25237	21061	20248	18186	428.31	17846	435.56	-7.25	

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	630	520	11.92	497	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	270	270	6.05	252	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	213	198	4.60	192	
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1	
	Rajpura (2*700)	1400	1120	660	21.54	898	
	Talwandi Saboo (3*660)	1980	616	616	16.74	697	
	Thermal (Total)	6560	2849	2264	60.81	2534	
	Total Hydro	1000	634	651	15.57	649	
	Total Punjab	7560	3483	2915	76.38	3182	
	Haryana	Panipat TPS (2*210+2*250)	920	546	546	12.90	538
DCRTPP (Yamuna nagar) (2*300)		600	524	460	11.08	462	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	179	162	3.93	164	
RGTPP (khedar) (IPP) (2*600)		1200	745	738	17.05	710	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1994	1906	44.96	1873	
Total Hydro		62	30	37	0.83	35	
Total Haryana		4559	2024	1943	45.80	1908	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	659	784	18.87	786
	suratgarh TPS (6*250)	1500	944	939	23.11	963	
	Chabra TPS (4*250)	1000	625	421	12.69	529	
	Dholpur GPS (3*110)	330	91	105	2.18	91	
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	172	165	4.10	171	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	0	0	0.00	0	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	456	474	15.51	646	
	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	864	1049	26.15	1090	
	Thermal (Total)	8876	3811	3937	103	4275	
	Total Hydro	550	33	0	0.41	17	
	Wind power	3214	502	1420	13.74	573	
	Biomass	99	13	13	0.32	13	
	Solar	730	0	0	2.74	114	
	Renewable/Others (Total)	4043	515	1433	16.80	700	
	Total Rajasthan	13469	4359	5370	119.82	4992	
	UP	Anpara TPS (3*210+2*500)	1630	1353	1348	32.46	1353
Obra TPS (2*50+2*94+5*200)		1194	286	342	7.65	319	
Paricha TPS (2*110+2*220+2*250)		1160	530	512	11.55	481	
Panki TPS (2*105)		210	63	72	1.60	67	
Harduaganj TPS (1*60+1*105+2*250)		665	514	549	11.00	458	
Tanda TPS (NTPC) (4*110)		440	350	361	8.13	339	
Roza TPS (IPP) (4*300)		1200	919	1116	21.73	906	
Anpara-C (IPP) (2*600)		1200	1059	1062	25.33	1055	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	282	405	7.51	313	
Anpara-D(2*500)		1000	218	214	5.19	216	
Lalitpur TPS(3*660)		1980	0	0	0.00	0	
Bara(2*660)		1320	538	543	11.73	489	
Thermal (Total)		12449	6112	6524	144	5996	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.03	418	
Alaknanda(4*82.5)		330	340	339	8.20	342	
Other Hydro		527	64	267	1.92	80	
Cogeneration		981	100	100	2.40	100	
Total UP		14727	7051	7665	166	6935	
Uttarakhand		Total Hydro	1398	760	759	18.00	750
		Total Gas	225	0	0	0.00	0
	Total Uttarakhand	1623	760	759	18	750	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	104	107	2.52	105	
	Pragati Gas Turbine (2x104+ 1x122)	330	266	265	6.39	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	250	6.04	252	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	7.01	292	
	Thermal (Total)	2917	950	952	21.93	914	
	Total Delhi	2917	950	952	21.93	914	
HP	Baspa HPS (IPP) (3*100)	300	302	332	7.61	317	
	Malana HPS (IPP) (2*43)	86	95	86	2.08	87	
	Other Hydro	878	447	444	10.70	446	
	Total HP	1264	844	862	20.39	850	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	733	733	17.59	733	
	Other Hydro/IPP	560	207	210	4.89	204	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	940	943	22.48	937	
Total State Control Area Generation		47619	20411	21409	491.23	20468	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7736	7232	173.76	7240	
Total Regional Availability(Gross)		72856	48395	46827	1093.30	45554	

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11071	8794	226.68	9445
State Control Area Hydro		7106	4080	4293	98	4076
Total Regional Hydro		19340	15151	13087	324.50	13521

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	-250	50	250	0.14	5.46	-5.31
765 KV Gwalior-Agra (D/C)	2400	1804	2680	0	46.66	0.00	46.66
400 KV Zerda-Kankroli	-31	-142	64	229	0.00	2.54	-2.54
400 KV Zerda-Bhinmal	15	-85	138	212	0.00	0.97	-0.97
220 KV Auraiya-Malanpur	-15	-36	0	65	0.00	0.49	-0.49
220 KV Badod-Kota/Morak	39	88	151	46	1.81	0.00	1.81
Mundra-Mohindergarh(HVDC Bipole)	2202	2503	2507	0.00	50.50	0.00	50.50
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	865	929	1236	598	21.66	0.00	21.66
Sub Total WR	5225	4811			120.77	9.45	111.32
Pusauli Bypass/HVDC	250	250	250	0	6.10	0.00	6.10
400 KV MZP- GKP (D/C)	233	301	490	0	8.45	0.00	8.45
400 KV Patna-Balia(D/C) X 2	679	531	758	0	15.75	0.00	15.75
400 KV B'Sharif-Balia (D/C)	40	25	155	0	1.15	0.00	1.15
765 KV Gaya-Balia	150	90	267	0	1.80	0.00	1.80
765 KV Gaya-Varanasi (D/C)	298	251	605	0	6.08	0.00	6.08
220 KV Pusauli-Sahupuri	161	190	206	0	4.32	0.00	4.32
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-262	-191	0	262	0.00	3.45	-3.45
400 KV Barh -GKP (D/C)	462	474	498	0	10.44	0.00	10.44
400 kV B'Sharif - Varanasi (D/C)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2011	1921			54.08	3.45	50.63
+/- 800 KV BiswanathCharialli-Agra	500	500	800	0.00	11.80	0.00	11.80
Sub Total NER	500	500			11.80	0.00	11.80
Total IR Exch	7736	7232			186.65	12.90	173.76

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
27.91	3.38	31.29	12.02	26.59	10.55	1.13	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
53.86	112.62	166.48	62.43	111.32	173.76	8.58	-1.30	7.28

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	-21	0	29	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	0.00	0.00	0.12	25.57	64.26	27.92	7.87	0.01	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	19.02	49.87	14.12	50.03	0.032	50.20	50.06	35.74	

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	5:45	403	22:06	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	6:04	399	22:23	0.0	0.0	1.6	0.0	1.6
Bareilly(PG)400kV	400	418	6:58	394	22:26	0.0	0.0	0.0	0.0	0.0
Kanpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	416	6:03	396	22:22	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	423	6:03	398	22:22	0.0	0.0	5.1	0.0	5.1
Bawana	400	417	6:01	398	22:27	0.0	0.0	0.0	0.0	0.0
Bassi	400	424	18:01	400	22:21	0.0	0.0	4.9	0.0	4.9
Hissar	400	416	6:04	394	22:25	0.0	0.0	0.0	0.0	0.0
Moga	400	416	6:02	397	22:23	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	410	5:47	392	21:06	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	421	6:01	407	22:22	0.0	0.0	0.5	0.0	0.5
Kishenpur	400	412	6:01	398	22:06	0.0	0.0	0.0	0.0	0.0
Wagoora	400	407	3:28	394	20:22	0.0	0.0	0.0	0.0	0.0
Amritsar	400	422	6:01	404	22:06	0.0	0.0	1.8	0.0	1.8
Kashipur	400	419	6:57	408	22:14	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	420	4:31	406	22:55	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	411	6:57	386	22:26	0.0	6.7	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	785	5:32	747	22:09	0.0	0.0	0.0	0.0	0.0
Balia	765	793	6:03	754	22:24	0.0	0.0	0.0	0.0	0.0
Moga	765	798	6:01	760	22:25	0.0	0.0	0.0	0.0	0.0
Agra	765	798	6:03	752	22:24	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	802	6:04	761	22:23	0.0	0.0	0.5	0.0	0.5
Unnao	765	778	6:03	739	22:24	0.0	1.5	0.0	0.0	0.0
Lucknow	765	798	6:02	756	22:26	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	6:03	764	22:10	0.0	0.0	5.9	0.0	5.9
Jhatikara	765	770	0:00	770	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	766	0:00	766	0:00	0.0	0.0	0.0	0.0	0.0
Anta	765	792	5:35	760	21:06	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	6:03	762	22:22	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	481.67	495.33	492.29	808.03	1049.76	920.30
Pong	426.72	384.05	394.70	121.45	406.90	397.88	271.78	170.55
Tehri	829.79	740.04	764.70	160.53	758.00	105.63	481.24	307.00
Koteswar	612.50	598.50	608.64	3.98	611.25	5.20	307.00	302.52
Chamera-I	760.00	748.75	752.23	0.00	0.00	0.00	259.88	142.89
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	503.84	6.79	523.31	10.75	305.40	279.31

* 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	1440	438	0	1628	296	0	36.91	9.98	46.88
Delhi	435	-105	0	903	-380	0	19.03	-7.91	11.12
Haryana	1847	305	0	1756	241	0	40.97	3.48	44.45
HP	-1500	24	0	-1247	-155	0	-31.93	-0.96	-32.89
J&K	-822	-50	0	-645	-15	0	-17.91	-0.83	-18.74
CHD	0	0	0	0	-20	0	0.35	-0.04	0.32
Rajasthan	-473	492	0	-473	469	0	-9.84	12.60	2.76
UP	1164	0	0	773	0	0	19.38	0.00	19.38
Uttarakhand	-349	393	0	-348	478	0	-8.38	9.05	0.67
Total	1742	1497	0	2346	915	0	48.58	25.37	73.95

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1628	1291	456	296	0	0
Delhi	952	435	182	-756	0	0
Haryana	2002	1579	311	-330	0	0
HP	-1244	-1501	157	-308	0	0
J&K	-620	-973	0	-101	0	0
CHD	44	0	0	-30	0	0
Rajasthan	-372	-473	662	469	0	0
UP	1184	630	0	0	0	0
Uttarakhand	-348	-351	478	332	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%
----------------	-------

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:
0.00

XIV. Weather Conditions For 10.07.2016 :

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :
I. 765 kV Varanasi-Kanpur-II synchronised for the first time at 1735 hrs. dated 10/07/16

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.