

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 23.10.2016

Date of Reporting : 24.10.2016



I. Regional Availability/Demand:

Evening Peak (19:00 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
40703	458	41161	50.10	35098	344	35442	0.00	875.6	8.84

* 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:

UI [OD:(+ve), UD: (-ve)]

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	43.12	10.42	0.21	53.75	59.26	57.83	-1.43	111.57	0.00
Haryana	34.07	0.68	0.00	34.75	90.12	87.96	-2.16	122.71	0.00
Rajasthan	109.00	4.53	17.93	131.45	59.92	62.47	2.55	193.92	0.00
Delhi	15.09		0.00	15.09	55.33	60.41	5.08	75.50	0.00
UP	175.64	14.61	0.00	190.25	90.02	88.23	-1.80	278.47	0.00
Uttarakhand		10.32	0.00	12.18	19.47	19.75	0.28	31.93	0.00
HP		5.49	3.05	8.54	13.96	14.66	0.70	23.20	0.07
J & K		9.73	0.00	9.73	28.66	25.33	-3.33	35.06	8.77
Chandigarh				0.00	3.40	3.23	-0.17	3.23	0.00
Total	376.92	55.77	21.19	455.73	420.14	419.86	-0.28	875.60	8.84

* Shortage furnished by the respective constituent's Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 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	4916	0	-259	-57	4214	0	-27	-57	4916	19:00	0
Haryana	6407	0	-169	542	4336	0	-31	121	6407	19:00	0
Rajasthan	8187	0	62	460	8149	0	-274	524	8842	8:00	0
Delhi	3704	0	219	-132	2711	0	161	-247	3776	20:00	0
UP	12815	10	-264	-61	12353	35	-117	34	12902	20:00	200
Uttarakhand	1600	0	-37	248	1195	0	20	312	1600	19:00	0
HP	1112	0	20	-333	794	0	79	81	1213	10:00	0
J&K	1793	448	-3	260	1236	309	-110	176	1793	19:00	448
Chandigarh	170	0	-1	-10	110	0	-4	0	170	19:00	0
Total	40703	458	-431	918	35098	344	-303	945	40703	19:00	458

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

Diversity is 1.02

UI [OD:(+ve), UD: (-ve)]

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	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1830	1997	1986	43.34	1806	43.31	0.02	
Rihand I STPS (2*500)	1000	943	975	1012	20.91	871	21.22	-0.31	
Rihand II STPS (2*500)	1000	943	972	964	20.76	865	21.05	-0.29	
Rihand III STPS (2*500)	1000	395	407	405	9.01	375	8.94	0.07	
Dadri I STPS (4*210)	840	815	313	289	6.94	289	7.01	-0.07	
Dadri II STPS (2*490)	980	980	720	697	16.07	670	16.55	-0.48	
Unchahar I TPS (2*210)	420	353	285	292	6.48	270	6.88	-0.40	
Unchahar II TPS (2*210)	420	400	245	279	6.17	257	7.15	-0.98	
Unchahar III TPS (1*210)	210	200	145	145	3.20	133	3.58	-0.39	
ISTPP (Jhajjar) (3*500)	1500	950	345	317	6.74	281	6.83	-0.10	
Dadri GPS (4*130.19+2*154.51)	830	785	311	362	7.65	319	7.93	-0.29	
Anta GPS (3*88.71+1*153.2)	419	388	0	0	0.00	0	0.00	0.00	
Auraiya GPS (4*111.19+2*109.30)	663	629	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	0.04	2	0.04	0.00	
Singrauli Solar(15)	15	2	0	0	0.01	0	0.05	-0.04	
KHEP(4*200)	800	858	860	220	2.99	125	2.89	0.10	
Sub Total (A)	12112	10473	7575	6968	150	6263	153	-3.16	
B. NPC									
NAPS (2*220)	440	195	222	221	4.72	197	4.68	0.04	
RAPS- B (2*220)	440	383	425	430	9.22	384	9.19	0.03	
RAPS- C (2*220)	440	98	0	212	1.83	76	2.35	-0.52	
Sub Total (B)	1320	676	647	863	15.77	657	16.22	-0.45	
C. NHPC									
Chamera I HPS (3*180)	540	540	366	0	2.11	88	1.93	0.17	
Chamera II HPS (3*100)	300	301	309	0	2.42	101	2.25	0.17	
Chamera III HPS (3*77)	231	231	228	0	1.38	57	1.30	0.08	
Bairasuil HPS(3*60)	180	179	119	0	0.87	36	0.82	0.05	
Salal-HPS (6*115)	690	197	224	242	5.44	227	4.73	0.72	
Tanakpur-HPS (3*31.4)	94	52	54	53	1.36	57	1.25	0.11	
Uri-I HPS (4*120)	480	88	231	42	2.41	101	2.10	0.31	
Uri-II HPS (4*60)	240	62	98	37	1.52	63	1.49	0.03	
Dhauliganga-HPS (4*70)	280	280	282	0	2.01	84	1.96	0.05	
Dulhasti-HPS (3*130)	390	383	395	262	7.22	301	7.00	0.22	
Sewa-II HPS (3*40)	120	119	110	0	0.32	13	0.36	-0.04	
Parbati 3 (4*130)	520	303	310	0	0.96	40	0.91	0.05	
Sub Total (C)	4065	2734	2723	636	28	1168	26	1.92	
D.SJVNL									
NJPC (6*250)	1500	1605	1598	0	12.02	501	12.00	0.02	
Rampur HEP (6*68.67)	412	442	447	0	3.45	144	3.35	0.10	
Sub Total (D)	1912	2047	2045	0	15.47	645	15.35	0.12	
E. THDC									
Tehri HPS (4*250)	1000	1071	1048	0	5.99	250	5.74	0.25	
Koteshwar HPS (4*100)	400	75	99	72	1.80	75	1.80	0.00	
Sub Total (E)	1400	1146	1147	72	7.79	324	7.54	0.25	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	724	1070	504	17.83	743	17.39	0.44	
Dehar HPS (6*165)	990	242	495	165	5.92	247	5.81	0.11	
Pong HPS (6*66)	396	157	330	66	3.79	158	3.78	0.01	
Sub Total (F)	2765	1124	1895	735	27.53	1147	26.97	0.56	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	109	0	0.96	40	0.92	0.04	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	6.53	272	6.26	-1.74	
Malana Stg-II HPS (2*50)	100	0	56	0	0.47	20	0.46	0.02	
Shree Cement TPS (2*150)	300	0	-1	-1	-0.03	-1	0.00	-0.03	
Budhil HPS(IPP) (2*35)	70	0	25	10	0.35	15	0.36	-0.01	
Sub Total (G)	1662	0	1013	9	8.28	345	9.99	-1.71	
H. Total Regional Entities (A-G)	25237	18200	17045	9283	253.17	10549	255.65	-2.48	

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	-0.14	-6	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.10	-4	
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1	
	Rajpura (2*700)	1400	660	920	21.19	883	
	Talwandi Saboo (3*660)	1980	924	924	22.21	925	
	Thermal (Total)	6560	1584	1844	43.12	1797	
	Total Hydro	1000	437	397	10.42	434	
	Wind Power	0	0	0	0.00	0	
	Biomass	288	5	5	0.11	5	
	Solar	560	0	0	0.09	4	
	Renewable(Total)	848	5	5	0.21	9	
	Total Punjab	8408	2026	2246	53.75	2239	
	Haryana	Panipat TPS (2*210+2*250)	920	198	201	4.85	202
		DCRTPP (Yamuna nagar) (2*300)	600	456	482	11.06	461
Faridabad GPS (NTPC)(2*137.75+1*1156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	769	763	18.16	757	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1423	1446	34.07	1420	
Total Hydro		62	25	24	0.68	28	
Wind Power		0	0	0	0.00	0	
Biomass		40	0	0	0.00	0	
Solar		0	0	0	0.00	0	
Renewable(Total)		40	0	0	0.00	0	
Total Haryana		4599	1448	1470	34.75	1448	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1051	1094	24.39	1016
		suratgarh TPS (6*250)	1500	606	651	14.06	586
	Chabra TPS (4*250)	1000	921	912	20.91	871	
	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	111	113	2.75	115	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	226	228	5.34	223	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	636	692	15.52	647	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	468	520	11.71	488	
	Kawai(Adani) (2*660)	1320	607	611	14.31	596	
	Thermal (Total)	8876	4626	4821	109.00	4542	
	Total Hydro	550	184	151	4.53	189	
	Wind power	4017	193	934	14.49	604	
	Biomass	99	21	21	0.51	21	
	Solar	1295	0	0	2.94	122	
	Renewable/Others (Total)	5411	214	955	17.93	747	
	Total Rajasthan	14837	5024	5927	131.45	5477	
	UP	Anpara TPS (3*210+2*500)	1630	1200	1194	29.10	1213
Obra TPS (2*50+2*94+5*200)		1194	334	323	7.80	325	
Paricha TPS (2*110+2*220+2*250)		1160	514	630	12.30	513	
Panki TPS (2*105)		210	135	153	3.30	138	
Harduaganj TPS (1*60+1*105+2*250)		665	381	518	9.90	413	
Tanda TPS (NTPC) (4*110)		440	367	382	8.54	356	
Roza TPS (IPP) (4*300)		1200	1076	1063	22.50	938	
Anpara-C (IPP) (2*600)		1200	995	995	24.70	1029	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	257	403	6.70	279	
Anpara-D(2*500)		1000	465	454	11.00	458	
Lalitpur TPS(3*660)		1980	1130	1135	24.40	1017	
Bara(2*660)		1320	541	542	13.00	542	
Thermal (Total)		12449	7395	7792	173.24	7218	
Vishnuparyag HPS (IPP)(4*110)		440	246	216	6.70	279	
Alaknada(4*82.5)		330	82	164	3.30	138	
Other Hydro		527	167	202	4.61	192	
Cogeneration		981	100	100	2.40	100	
Wind Power		0	0	0	0.00	0	
Biomass		26	0	0	0.00	0	
Solar		102	0	0	0.00	0	
Renewable(Total)		128	0	0	0.00	0	
Total UP		14855	7990	8474	190.25	7927	
Uttarakhand		Other Hydro	1250	534	393	10.32	430
	Total Gas	225	91	95	1.81	75	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	20	0	0	0.06	3	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	327	0	0	0.06	3	
	Total Uttarakhand	1802	625	488	12.18	508	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	74	74	1.83	76	
	Pragati Gas Turbine (2x104+ 1x122)	330	147	147	3.69	154	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	251	251	6.03	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	162	165	3.54	147	
	Thermal (Total)	2917	634	637	15.09	629	
	Wind Power	0	0	0	0.00	0	
	Biomass	16	0	0	0.00	0	
	Solar	2	0	0	0.00	0	
	Renewable(Total)	18	0	0	0.00	0	
Total Delhi	2935	634	637	15.09	629		

HP	Baspa HPS (IPP) (3*100)	300	63	73	1.83	76
	Malana HPS (IPP) (2*43)	86	75	0	0.46	19
	Other Hydro	372	146	125	3.21	134
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)	486	133	124	3.05	127
	Renewable(Total)	486	133	124	3.05	127
	Total HP	1244	417	322	8.54	356
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	290	290	6.96
Other Hydro/IPP(including 98 MW Small Hydro)		308	138	93	2.77	115
Gas/Diesel/Others		190	0	0	0.00	0
Wind Power		0	0	0	0.00	0
Biomass		0	0	0	0.00	0
Solar		0	0	0	0.00	0
Small Hydro (< 25 MW)Included in Other Hydro Above		98	0	0	0.00	0
Renewable(Total)		98	0	0	0.00	0
Total J & K		1398	428	383	10	405
Total State Control Area Generation		50078	18591	19946	455.73	18989
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6201	7069	177.11	7380	
Total Regional Availability(Gross)	75315	41838	36298	886.01	36917	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9660	1663	89.76	3740
State Control Area Hydro	7163	2611	2347	58.82	2528
Total Regional Hydro	19397	12270	4010	148.57	6268

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.06	3
State Control Area Renewable	7356	352	1084	21.25	885
Total Regional Renewable	7386	352	1084	21.31	888

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhyhall(HVDC B/B)	-250	-250	0	250	0.00	6.00	-6.00
765 KV Gwalior-Agra (D/C)	2010	2072	2360	0	57.11	0.00	57.11
400 KV Zerda-Kankroli	69	-111	70	145	0.00	1.26	-1.26
400 KV Zerda-Bhinmal	98	-110	136	126	0.00	0.48	-0.48
220 KV Auraiya-Malanpur	-53	-50	0	90	0.00	1.09	-1.09
220 KV Badod-Kota/Morak	52	-3	86	54	0.37	0.00	0.37
Mundra-Mohindergerh(HVDC Bipole)	1999	2004	2006	0.00	48.38	0.00	48.38
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	697	1237	965	0	26.28	0.00	26.28
Sub Total WR	4622	4789			132.14	8.82	123.32
Pusauli Bypass/HVDC	-169	-258	0	312	0.00	3.80	-3.80
400 KV MZP- GKP (D/C)	197	456	626	0	9.82	0.00	9.82
400 KV Patna-Balia(D/C) X 2	400	348	563	0	10.35	0.00	10.35
400 KV B Sharif-Balia (D/C)	14	169	223	0	3.26	0.00	3.26
765 KV Gaya-Balia	135	252	278	0	4.57	0.00	4.57
765 KV Gaya-Varanasi (D/C)	286	446	505	0	8.73	0.00	8.73
220 KV Pusauli-Sahupuri	126	186	190	0	4.04	0.00	4.04
132 KV K'nasa-Sahupuri	-38	-48	0	52	0.00	0.93	-0.93
132 KV Son Ngr-Rihand	-41	-36	0	41	0.00	0.83	-0.83
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	11	26	178	9	1.70	0.00	1.70
400 KV Barh -GKP (D/C)	352	304	376	0	7.56	0.00	7.56
400 kV B Sharif - Varanasi (D/C)	19	-46	155	31	1.16	0.00	1.16
Sub Total ER	1292	1799			51.19	5.55	45.64
+/- 800 KV BiswanathChariali-Agra	287	481	481	0.00	8.15	0.00	8.15
Sub Total NER	287	481			8.15	0.00	8.15
Total IR Exch	6201	7069			191.49	14.38	177.11

VI(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
41.28	3.43	44.71	8.12	-0.39	5.57	3.63	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
58.40	118.99	177.39	53.79	123.32	177.11	-4.60	4.32	-0.28

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

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-12	0	0	12	0	0	-0.01

VII. 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	1.52	44.83	68.39	22.50	7.19	0.46	0.00

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time						
50.24	18.00	49.83	5.09	50.01	0.039	0.061	0.00	0.00	31.61

VIII(A). 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	0:00	402	15:46	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	6:04	399	14:37	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	404	0:00	404	0:00	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	3:00	401	12:16	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	2:54	398	14:41	0.0	0.0	1.2	0.0	1.2
Ballabgarh	400	429	2:56	402	11:38	0.0	0.0	42.6	0.0	42.6
Bawana	400	423	1:08	400	11:37	0.0	0.0	19.7	0.0	19.7
Bassi	400	423	4:03	400	11:23	0.0	0.0	0.9	0.0	0.9
Hissar	400	420	2:58	397	14:41	0.0	0.0	0.0	0.0	0.0
Moga	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	1:28	404	18:28	0.0	0.0	33.9	0.0	33.9
Nalagarh	400	429	3:05	408	11:43	0.0	0.0	37.0	0.0	37.0
Kishenpur	400	424	2:59	392	18:17	0.0	0.0	8.7	0.0	8.7
Wagoora	400	413	3:00	365	18:17	5.4	39.4	0.0	0.0	5.4
Amritsar	400	428	2:56	405	11:26	0.0	0.0	34.4	0.0	34.4
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	413	4:03	386	14:41	0.0	3.4	0.0	0.0	0.0

VIII(B). 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	779	2:59	746	18:25	0.0	0.0	0.0	0.0	0.0
Balia	765	784	6:02	758	18:11	0.0	0.0	0.0	0.0	0.0
Moga	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Agra	765	792	2:59	753	14:41	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	3:00	767	14:36	0.0	0.0	12.4	0.0	12.4
Unnao	765	765	6:04	736	15:43	0.0	12.8	0.0	0.0	0.0
Lucknow	765	786	6:03	754	14:37	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	2:58	754	11:39	0.0	0.0	8.3	0.0	8.3
Jhatikara	765	803	2:58	764	14:41	0.0	0.0	3.9	0.0	3.9
Bareilly 765 kV	765	784	6:04	749	11:37	0.0	0.0	0.0	0.0	0.0
Anta	765	795	21:44	766	14:33	0.0	0.0	0.0	0.0	0.0
Phagi	765	796	2:49	766	11:52	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	499.70	1076.64	509.78	1530.03	195.27	526.27
Pong	426.72	384.05	415.28	680.86	419.23	848.35	59.83	230.92
Tehri	829.79	740.04	823.95	1085.80	818.90	980.00	98.80	130.00
Koteswar	612.50	598.50	609.54	4.35	610.58	4.95	130.00	118.35
Chamera-I	760.00	748.75	759.61	0.00	0.00	0.00	67.74	57.19
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	514.94	3.18	511.99	3.87	73.37	128.73

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-57	0	0	-57	0	0	-1.35	-0.07	-1.42
Delhi	6	-253	0	-94	-38	0	-0.35	-1.99	-2.34
Haryana	15	106	0	476	66	0	4.64	0.49	5.13
HP	81	0	0	-8	-325	0	2.33	-3.19	-0.87
J&K	126	50	0	126	134	0	4.80	2.22	7.02
CHD	0	0	0	0	0	-10	0.00	-0.12	-0.12
Rajasthan	-5	529	0	-7	467	0	-0.13	11.51	11.38
UP	134	-100	0	39	-100	0	-2.84	-2.22	-5.06
Uttarakhand	12	300	0	25	223	0	0.40	6.54	6.94
Total	314	631	0	500	428	-10	7.49	13.17	20.66

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-49	-62	0	-157	0	0
Delhi	6	-94	13	-399	0	0
Haryana	515	-8	339	-531	0	0
HP	170	-8	265	-782	0	0
J&K	275	118	298	35	0	0
CHD	0	0	0	0	0	-50
Rajasthan	-5	-7	557	450	0	0
UP	186	-441	0	-100	0	0
Uttarakhand	25	12	469	141	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. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	1	14
Haryana	1	23
Rajasthan	4	17
Delhi	4	60
UP	3	25
Uttarakhand	4	37
HP	4	20
J & K	4	31
Chandigarh	2	29

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 23.10.2016 :**
Normal**XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :****XVIII. Tripping of lines in pooling stations :****XIX. 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.