

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 31.10.2016

Date of Reporting : 01.11.2016



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
37652	441	38093	50.10	30630	332	30961	50.07	784.1	8.98

* 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	30.73	10.20	0.75	41.68	41.67	42.36	0.69	84.04	0.00
Haryana	33.24	0.60	0.00	33.83	61.06	59.07	-1.99	92.90	0.00
Rajasthan	106.85	4.08	9.33	120.26	54.17	57.47	3.30	177.73	0.00
Delhi	9.13		0.00	9.13	47.37	48.39	1.02	57.53	0.00
UP	172.21	11.70	0.00	183.90	109.75	106.70	-3.05	290.60	0.00
Uttarakhand		9.77	0.00	14.17	13.41	12.31	-1.11	26.48	0.00
HP		4.89	2.59	7.49	9.06	8.70	-0.36	16.18	0.00
J & K		6.95	0.00	6.95	31.95	28.95	-3.00	35.90	8.98
Chandigarh				0.00	3.28	2.72	-0.55	2.72	0.00
Total	352.16	48.18	12.67	417.41	371.71	366.67	-5.04	784.08	8.98

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

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

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	4026	0	47	-483	3117	0	211	-98	4026	19:00	0
Haryana	5335	0	-241	296	3134	0	56	107	5335	19:00	0
Rajasthan	7209	0	-86	-4	7466	0	154	168	8481	7:00	0
Delhi	2758	0	-99	-245	2197	2	131	-290	2813	20:00	0
UP	13988	0	-782	1662	11948	0	-252	93	15388	21:00	0
Uttarakhand	1502	0	7	212	903	0	-17	233	1502	19:00	0
HP	917	0	59	-519	453	0	-23	1	917	19:00	0
J&K	1765	441	-154	367	1319	330	-97	280	1765	19:00	441
Chandigarh	152	0	-89	0	93	0	0	0	152	19:00	0
Total	37652	441	-1338	1286	30630	332	164	495	38132	20:00	424

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

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	1833	1732	1391	34.42	1434	33.50		0.91
Rihand I STPS (2*500)	1000	943	775	618	14.71	613	15.91		-1.20
Rihand II STPS (2*500)	1000	963	735	607	15.11	629	16.20		-1.09
Rihand III STPS (2*500)	1000	963	675	602	15.44	643	16.36		-0.92
Dadri I STPS (4*210)	840	815	310	277	6.72	280	6.88		-0.15
Dadri II STPS (2*490)	980	980	710	686	15.88	662	16.49		-0.61
Unchahar I TPS (2*210)	420	360	271	260	5.96	248	6.03		-0.07
Unchahar II TPS (2*210)	420	402	301	306	6.55	273	6.91		-0.36
Unchahar III TPS (1*210)	210	201	142	137	3.08	128	3.33		-0.25
ISTPP (Jhajjar) (3*500)	1500	1425	360	316	6.94	289	7.08		-0.14
Dadri GPS (4*130.19+2*154.51)	830	789	265	361	7.19	300	7.58		-0.39
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	624	0	0	0.00	0	0.00		0.00
Dadri Solar(5)	5	1	0	0	0.02	1	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	0.01	0	0.05		-0.04
KHEP(4*200)	800	860	856	220	4.25	177	4.00		0.25
Sub Total (A)	12112	11550	7133	5781	136	5679	140		-4.07
B. NPC									
NAPS (2*220)	440	399	440	440	9.61	400	9.58		0.03
RAPS- B (2*220)	440	386	425	433	9.27	386	9.26		0.01
RAPS- C (2*220)	440	195	217	218	4.55	190	4.68		-0.13
Sub Total (B)	1320	980	1082	1091	23.43	976	23.52		-0.09
C. NHPC									
Chamera I HPS (3*180)	540	540	438	0	2.72	113	2.50		0.22
Chamera II HPS (3*100)	300	301	309	0	1.58	66	1.42		0.16
Chamera III HPS (3*77)	231	231	224	0	0.86	36	0.80		0.06
Bairasuli HPS(3*60)	180	179	183	0	0.75	31	0.72		0.03
Salal-HPS (6*115)	690	142	230	200	3.82	159	3.40		0.42
Tanakpur-HPS (3*31.4)	94	44	44	61	1.17	49	1.06		0.12
Uri-I HPS (4*120)	480	85	233	27	2.20	92	2.05		0.15
Uri-II HPS (4*60)	240	58	38	78	1.41	59	1.40		0.01
Dhauliganga-HPS (4*70)	280	280	280	0	1.67	69	1.54		0.13
Dulhasti-HPS (3*130)	390	383	393	22	5.65	235	5.40		0.25
Sewa-II HPS (3*40)	120	119	116	0	0.34	14	0.36		-0.03
Parbati 3 (4*130)	520	260	263	0	0.81	34	0.78		0.03
Sub Total (C)	4065	2621	2750	389	23	957	21		1.55
D.SJVNL									
NJPC (6*250)	1500	1605	1616	0	11.56	482	11.47		0.08
Rampur HEP (6*68.67)	412	442	446	0	3.31	138	3.19		0.12
Sub Total (D)	1912	2047	2062	0	14.87	620	14.67		0.21
E. THDC									
Tehri HPS (4*250)	1000	1071	1012	0	5.89	246	5.74		0.15
Koteshwar HPS (4*100)	400	91	100	90	2.20	92	2.19		0.01
Sub Total (E)	1400	1163	1112	90	8.09	337	7.93		0.16
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	541	1050	396	13.21	550	12.99		0.22
Dehar HPS (6*165)	990	211	495	145	5.24	218	5.07		0.17
Pong HPS (6*66)	396	271	330	264	6.53	272	6.50		0.03
Sub Total (F)	2765	1023	1875	805	24.98	1041	24.56		0.42
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.00	0	0.75		-0.75
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	5.84	243	5.81		0.03
Malana Stg-II HPS (2*50)	100	0	0	0	0.48	20	0.45		0.03
Shree Cement TPS (2*150)	300	0	0	0	0.00	0	0.00		0.00
Budhil HPS(IPP) (2*35)	70	0	38	0	0.28	12	0.30		-0.02
Sub Total (G)	1662	0	863	0	6.60	275	7.31		-0.70
H. Total Regional Entities (A-G)	25237	19384	16877	8156	237.25	9885	239.77		-2.52

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	160	3.43	143	
	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	192	194	4.24	177	
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1	
	Rajpura (2*700)	1400	660	660	15.66	652	
	Talwandi Saboo (3*660)	1980	308	308	7.46	311	
	Thermal (Total)	6560	1320	1322	30.73	1281	
	Total Hydro	1000	430	393	10.20	425	
	Wind Power	0	0	0	0.00	0	
	Biomass	288	20	20	0.48	20	
	Solar	560	0	0	0.26	11	
	Renewable(Total)	848	20	20	0.75	31	
	Total Punjab	8408	1770	1735	41.68	1737	
	Haryana	Panipat TPS (2*210+2*250)	920	198	200	4.90	204
		DCRTPP (Yamuna nagar) (2*300)	600	459	456	10.83	451
Faridabad GPS (NTPC)(2*137.75+1*1156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	707	760	17.51	730	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1364	1416	33.24	1385	
Total Hydro		62	15	35	0.60	25	
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	1379	1451	33.83	1410	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	943	990	24.12	1005
		suratgarh TPS (6*250)	1500	775	763	18.16	756
	Chabra TPS (4*250)	1000	752	809	19.84	827	
	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	134	143	3.69	154	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	227	227	5.32	222	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	320	620	11.67	486	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	406	439	10.64	443	
	Kawai(Adani) (2*660)	1320	476	605	13.42	559	
	Thermal (Total)	8876	4033	4596	106.85	4452	
	Total Hydro	550	192	150	4.08	170	
	Wind power	4017	115	338	6.05	252	
	Biomass	99	20	20	0.47	20	
	Solar	1295	0	0	2.82	117	
	Renewable/Others (Total)	5411	135	358	9.33	389	
	Total Rajasthan	14837	4360	5104	120.26	5011	
UP	Anpara TPS (3*210+2*500)	1630	1237	1202	29.30	1221	
	Obra TPS (2*50+2*94+5*200)	1194	224	272	6.10	254	
	Paricha TPS (2*110+2*220+2*250)	1160	709	530	15.70	654	
	Panki TPS (2*105)	210	135	126	3.10	129	
	Harduaganj TPS (1*60+1*110+2*250)	665	452	379	9.40	392	
	Tanda TPS (NTPC) (4*110)	440	390	357	7.83	326	
	Roza TPS (IPP) (4*300)	1200	909	756	21.03	876	
	Anpara-C (IPP) (2*600)	1200	842	918	21.21	884	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	404	282	6.78	283	
	Anpara-D(2*500)	1000	627	865	18.68	778	
	Lalitpur TPS(3*660)	1980	885	723	17.82	743	
	Bara(2*660)	1320	542	534	12.86	536	
	Thermal (Total)	12449	7356	6944	169.81	7075	
	Vishnuparyag HPS (IPP)(4*110)	440	157	157	6.78	283	
	Alaknada(4*82.5)	330	83	84	3.10	129	
	Other Hydro	527	262	31	1.81	76	
	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	7958	7316	183.90	7663	
	Uttarakhand	Other Hydro	1250	583	360	9.77	407
Total Gas		225	178	186	4.35	181	
Wind Power		0	0	0	0.00	0	
Biomass		127	0	0	0.00	0	
Solar		20	0	0	0.05	2	
Small Hydro (< 25 MW)		180	0	0	0.00	0	
Renewable(Total)		327	0	0	0.05	2	
Total Uttarakhand		1802	761	546	14.17	590	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	76	77	1.86	78	
	Pragati Gas Turbine (2x104+ 1x122)	330	154	156	3.78	157	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-5	-5	-0.11	-5	
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.62	151	
	Thermal (Total)	2917	390	393	9.13	381	
	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	390	393	9.13	381		

HP	Baspa HPS (IPP) (3*100)	300	44	66	1.74	73
	Malana HPS (IPP) (2*43)	86	44	0	0.50	21
	Other Hydro	372	122	61	2.65	110
	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	116	98	2.59	108
	Renewable(Total)	486	116	98	2.59	108
	Total HP	1244	326	225	7.49	312
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	251	142	4.18
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	389	235	7	289
Total State Control Area Generation		50078	17333	17005	417.41	17392
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5846	6512	144.79	6033	
Total Regional Availability(Gross)	75315	40056	31673	799.45	33310	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9481	1504	81.48	3395
State Control Area Hydro	7163	2615	1856	50.78	2299
Total Regional Hydro	19397	12095	3360	132.25	5694

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.06	3
State Control Area Renewable	7356	271	476	12.73	530
Total Regional Renewable	7386	271	476	12.79	533

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	
Vindhychall(HVDC B/B)	-500	-500	0	500	0.00	12.14	-12.14
765 KV Gwalior-Agra (D/C)	2222	2130	2496	0	46.80	0.00	46.80
400 KV Zerda-Kankroli	160	108	160	46	1.64	0.00	1.64
400 KV Zerda-Bhinmal	212	166	259	20	3.38	0.00	3.38
220 KV Auraiya-Malanpur	-38	-46	0	81	0.00	1.12	-1.12
220 KV Badod-Kota/Morak	-1	-20	38	83	0.99	0.99	0.00
Mundra-Mohindergerh(HVDC Bipole)	1000	999	1404	0.00	25.03	0.00	25.03
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1125	1181	665	0	27.32	0.00	27.32
Sub Total WR	4180	4018			105.16	14.25	90.91
Pusauli Bypass/HVDC	17	45	300	284	7.18	5.96	1.22
400 KV MZP- GKP (D/C)	-23	196	265	122	2.59	0.00	2.59
400 KV Patna-Balia(D/C) X 2	377	498	536	0	11.74	0.00	11.74
400 KV B Sharif-Balia (D/C)	-25	35	93	25	0.97	0.00	0.97
765 KV Gaya-Balia	218	262	308	0	5.61	0.00	5.61
765 KV Gaya-Varanasi (D/C)	260	386	465	0	7.87	0.00	7.87
220 KV Pusauli-Sahupuri	197	237	201	0	4.19	0.00	4.19
132 KV K'nasa-Sahupuri	-25	-22	0	30	0.00	0.53	-0.53
132 KV Son Ngr-Rihand	-45	-34	0	45	0.00	0.91	-0.91
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-275	-185	0	312	0.00	3.89	-3.89
400 KV Barh -GKP (D/C)	432	440	448	0	9.44	0.00	9.44
400 kV B Sharif - Varanasi (D/C)	-118	-39	13	171	0.00	0.99	-0.99
Sub Total ER	990	1819			49.57	12.27	37.30
+/- 800 KV BiswanathChariali-Agra	676	675	682	0.00	16.59	0.00	16.59
Sub Total NER	676	675			16.59	0.00	16.59
Total IR Exch	5846	6512			171.31	26.52	144.79

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
79.51	0.00	79.51	0.00	0.00	0.00	0.00	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
79.51	132.42	211.93	53.89	90.91	144.79	-25.62	-41.51	-67.14

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	0	0	0	27	0	0	-0.07

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	3.87	41.32	68.54	21.30	6.39	0.00	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)	
50.19	Time 14.00	49.81	Time 17.39	50.01	0.037	0.060	50.16	50.00	31.46

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	411	1:25	404	20:38	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	13:58	398	18:36	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	1:12	400	18:34	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	1:16	403	18:08	0.0	0.0	0.0	0.0	0.0
Dadri	400	426	1:22	408	18:34	0.1	0.1	48.0	0.0	48.1
Ballabgarh	400	434	2:04	414	18:35	0.0	0.0	93.7	19.7	93.7
Bawana	400	429	2:56	409	18:34	0.0	0.0	64.4	0.0	64.4
Bassi	400	422	15:59	403	23:06	0.0	0.0	2.6	0.0	2.6
Hissar	400	423	1:08	404	18:35	0.0	0.0	20.9	0.0	20.9
Moga	400	426	1:19	407	18:23	0.0	0.0	23.8	0.0	23.8
Abdullapur	400	429	2:28	408	18:24	0.0	0.0	39.9	0.0	39.9
Nalagarh	400	436	0:43	413	18:28	0.0	0.0	86.0	20.3	86.0
Kishenpur	400	423	2:55	396	18:14	0.0	0.0	11.1	0.0	11.1
Wagoora	400	407	3:27	378	7:53	0.8	33.8	0.0	0.0	0.8
Amritsar	400	433	1:18	411	18:22	0.0	0.0	77.6	16.3	77.6
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	418	1:09	395	18:31	2.4	2.4	0.0	0.0	2.4

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	775	3:59	743	18:09	0.0	0.0	0.0	0.0	0.0
Balia	765	790	16:01	759	18:34	0.0	0.0	0.0	0.0	0.0
Moga	765	805	2:55	772	18:22	0.0	0.0	19.3	0.0	19.3
Agra	765	788	1:15	758	18:36	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	810	4:00	783	18:22	0.0	0.0	35.2	0.0	35.2
Unnao	765	771	16:01	746	18:08	0.0	0.0	0.0	0.0	0.0
Lucknow	765	799	16:01	766	18:35	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	1:10	755	18:35	0.0	0.0	5.2	0.0	5.2
Jhatikara	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	792	4:00	758	18:34	0.0	0.0	0.0	0.0	0.0
Anta	765	794	4:00	776	5:53	0.0	0.0	0.0	0.0	0.0
Phagi	765	797	2:29	779	5:49	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	498.70	1041.47	509.38	1515.08	216.60	380.89
Pong	426.72	384.05	414.65	656.23	418.57	821.34	49.75	399.41
Tehri	829.79	740.04	822.95	1064.58	817.60	954.25	57.94	128.00
Koteshwar	612.50	598.50	610.08	4.60	610.19	4.69	128.00	144.79
Chamera-I	760.00	748.75	759.89	0.00	0.00	0.00	68.98	73.37
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	513.21	4.93	511.25	4.33	0.83	198.35

* 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	-100	3	0	-494	11	0	-5.09	0.28	-4.81
Delhi	4	-294	0	-96	-148	0	-1.01	-5.91	-6.92
Haryana	9	97	0	154	142	0	2.91	-2.31	0.60
HP	84	-82	0	-283	-237	0	-0.16	-3.83	-3.98
J&K	180	100	0	168	199	0	4.27	4.33	8.60
CHD	0	0	0	0	0	0	0.00	0.12	0.12
Rajasthan	-5	173	0	-7	3	0	-0.13	3.71	3.58
UP	93	0	0	1175	487	0	10.31	1.46	11.78
Uttarakhand	3	230	0	36	176	0	0.34	6.38	6.72
Total	268	226	0	653	633	0	11.45	4.23	15.68

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-92	-494	21	3	0	0
Delhi	4	-197	-92	-461	0	0
Haryana	231	-28	143	-967	0	0
HP	192	-358	24	-594	0	0
J&K	180	168	299	100	0	0
CHD	0	0	0	0	20	-30
Rajasthan	-5	-7	199	-468	0	0
UP	1348	-227	487	-100	0	0
Uttarakhand	36	3	561	58	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. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	3	25
Haryana	0	9
Rajasthan	4	29
Delhi	4	20
UP	2	20
Uttarakhand	4	24
HP	2	14
J & K	5	48
Chandigarh	4	24

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 31.10.2016 :**
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.