

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 27.11.2016

Date of Reporting : 28.11.2016



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
37091	879	37970	50.05	28712	374	29086	50.06	787.49	10.30

* 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	36.14	8.48	0.33	44.95	48.39	49.67	1.28	94.62	0.00
Haryana	22.67	0.47	0.00	23.13	80.63	79.80	-0.84	102.93	0.00
Rajasthan	117.04	3.50	5.04	125.58	71.95	72.97	1.01	198.55	0.76
Delhi	14.37	0.00	0.00	14.37	37.43	38.06	0.63	52.43	0.01
UP	158.21	6.40	0.00	164.61	84.88	81.45	-3.43	246.06	0.02
Uttarakhand		7.70	0.00	14.61	15.43	14.81	-0.62	29.43	0.00
HP		3.78	1.58	5.36	17.60	17.35	-0.25	22.71	0.03
J & K		6.37	0.00	6.37	35.82	31.52	-4.30	37.89	9.47
Chandigarh				0.00	3.11	2.88	-0.22	2.88	0.00
Total	348.43	36.69	6.96	398.98	395.24	388.51	-6.73	787.49	10.30

* 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	4892	0	-112	-456	3271	0	-15	-455	4892	19:00	0
Haryana	5388	0	-289	-50	3054	0	17	-284	5527	7:00	0
Rajasthan	8565	0	5	474	7774	0	-8	489	9899	8:00	148
Delhi	2719	0	15	-433	1439	0	104	-579	2991	12:00	0
UP	10983	430	-94	-85	9766	0	-159	119	11749	8:00	0
Uttarakhand	1495	0	-242	50	1067	0	-67	233	1554	18:00	0
HP	1098	0	-250	133	761	0	-10	401	1242	9:00	0
J&K	1797	449	-367	336	1496	374	-160	353	1797	19:00	449
Chandigarh	154	0	-54	-30	84	0	2	-30	160	9:00	0
Total	37091	879	-1388	-62	28712	374	-297	249	37370	8:00	556

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

Diversity is 1.07

UI [OD:(+ve), UG: (-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	1827	1973	1939	44.09	1837	43.62	0.47	
Rihand I STPS (2*500)	1000	898	1023	806	21.31	888	21.19	0.12	
Rihand II STPS (2*500)	1000	948	951	931	22.44	935	22.19	0.24	
Rihand III STPS (2*500)	1000	948	915	908	21.89	912	21.59	0.29	
Dadri I STPS (4*210)	840	815	164	152	3.94	164	4.10	-0.15	
Dadri II STPS (2*490)	980	980	439	349	9.35	390	9.95	-0.60	
Unchahar I TPS (2*210)	420	360	268	284	6.86	286	7.10	-0.24	
Unchahar II TPS (2*210)	420	404	289	301	7.44	310	7.91	-0.47	
Unchahar III TPS (1*210)	210	202	151	142	3.69	154	3.91	-0.22	
ISTPP (Jhajihar) (3*500)	1500	1440	610	633	17.48	729	17.79	-0.30	
Dadri GPS (4*130.19+2*154.51)	830	796	263	286	7.51	313	8.11	-0.60	
Anta GPS (3*88.71+1*153.2)	419	409	-1	-1	0.00	0	0.00	0.00	
Auraiya GPS (4*111.19+2*109.30)	663	625	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	0.03	1	0.04	-0.01	
Singrauli Solar(15)	15	2	0	0	0.05	2	0.05	0.00	
KHEP(4*200)	800	865	784	0	2.85	119	2.60	0.25	
Sub Total (A)	12112	11521	7829	6730	169	7040	170	-1.23	
B. NPC									
NAPS (2*220)	440	402	402	402	9.65	402	9.65	0.00	
RAPS- B (2*220)	440	382	424	427	9.19	383	9.17	0.02	
RAPS- C (2*220)	440	220	235	238	5.01	209	5.28	-0.27	
Sub Total (B)	1320	1004	1061	1067	23.85	1094	24.10	-0.25	
C. NHPC									
Chamera I HPS (3*180)	540	540	227	0	1.99	83	1.80	0.19	
Chamera II HPS (3*100)	300	301	308	0	1.43	60	1.25	0.18	
Chamera III HPS (3*77)	231	231	151	0	0.75	31	0.70	0.05	
Bairasuli HPS(3*60)	180	120	122	0	0.51	21	0.50	0.01	
Salal-HPS (6*115)	690	111	310	35	2.97	124	2.66	0.31	
Tanakpur-HPS (3*31.4)	94	28	18	31	0.80	33	0.66	0.14	
Uri-I HPS (4*120)	480	79	233	26	2.10	87	1.90	0.20	
Uri-II HPS (4*60)	240	56	40	78	1.44	60	1.34	0.10	
Dhauliganga-HPS (4*70)	280	210	212	0	1.14	48	1.05	0.09	
Dulhasti-HPS (3*130)	390	383	395	0	3.12	130	2.87	0.26	
Sewa-II HPS (3*40)	120	80	74	0	0.20	8	0.25	-0.05	
Parbati 3 (4*130)	520	130	118	0	0.43	18	0.39	0.04	
Sub Total (C)	4065	2268	2208	171	17	703	15	1.50	
D.SJVNL									
NJPC (6*250)	1500	1610	1606	0	7.71	321	7.62	0.09	
Rampur HEP (6*68.67)	412	442	441	0	2.16	90	2.11	0.04	
Sub Total (D)	1912	2052	2047	0	9.87	411	9.74	0.13	
E. THDC									
Tehri HPS (4*250)	1000	1075	1024	0	6.95	290	6.80	0.15	
Koteshwar HPS (4*100)	400	94	206	91	2.28	95	2.26	0.02	
Sub Total (E)	1400	1169	1230	91	9.23	385	9.06	0.17	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	561	1020	391	13.66	569	13.47	0.20	
Dehar HPS (6*165)	990	139	495	145	3.36	140	3.33	0.03	
Pong HPS (6*66)	396	169	396	66	4.03	168	4.05	-0.02	
Sub Total (F)	2765	868	1911	602	21.04	877	20.84	0.20	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	48	0	0.57	24	0.51	0.05	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	4.44	185	4.27	0.17	
Malana Stg-II HPS (2*50)	100	0	0	0	0.26	11	0.25	0.01	
Shree Cement TPS (2*150)	300	0	0	0	0.00	0	0.00	0.00	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.23	9	0.23	0.00	
Sub Total (G)	1662	0	678	0	5.49	229	5.26	0.23	
H. Total Regional Entities (A-G)	25237	18882	16964	8661	255.30	10637	254.53	0.77	

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	-0.11	-5
	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	-0.07	-3
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	610	660	15.44	643
	Talwandi Saboo (3*660)	1980	752	616	20.93	872
	Thermal (Total)	6560	1362	1276	36.14	1506
	Total Hydro	1000	353	374	8.48	353
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.27	11
	Solar	560	0	0	0.06	3
	Renewable(Total)	848	0	0	0.33	14
	Total Punjab	8408	1715	1650	44.95	1873
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	557	459	11.92	497
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
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	526	370	10.75	448
Thermal (Total)		4497	1083	829	22.67	944
Total Hydro		62	10	13	0.47	19
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	1093	842	23.13	964
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1065	1148	25.05
	suratgarh TPS (6*250)	1500	405	456	10.19	424
	Chabra TPS (4*250)	1000	909	856	21.11	880
	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	150	152	3.89	162
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingar (NLC) (2*125)	250	226	114	3.85	161
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	822	778	18.49	770
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1047	1130	24.90	1037
	Kawai(Adani) (2*660)	1320	403	402	9.57	399
	Thermal (Total)	8876	5027	5036	117.04	4877
	Total Hydro	550	149	141	3.50	146
	Wind power	4017	71	79	1.99	83
	Biomass	99	21	21	0.50	21
	Solar	1295	8	0	2.56	107
	Renewable/Others (Total)	5411	100	100	5.04	210
	Total Rajasthan	14837	5276	5277	125.58	5233
UP	Anpara TPS (3*210+2*500)	1630	1164	1008	25.20	1050
	Obra TPS (2*50+2*94+5*200)	1194	249	270	6.60	275
	Paricha TPS (2*110+2*220+2*250)	1160	592	585	15.70	654
	Panki TPS (2*105)	210	135	95	3.10	129
	Harduaganj TPS (1*60+1*105+2*250)	665	329	239	8.00	333
	Tanda TPS (NTPC) (4*110)	440	210	209	5.81	242
	Roza TPS (IPP) (4*300)	1200	368	376	10.90	454
	Anpara-C (IPP) (2*600)	1200	797	954	23.30	971
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	282	282	7.30	304
	Anpara-D(2*500)	1000	448	456	10.80	450
	Lalitpur TPS(3*660)	1980	356	350	10.40	433
	Bara(2*660)	1320	572	564	14.30	596
	Thermal (Total)	12449	5502	5388	141.41	5892
	Vishnuparyag HPS (IPP)(4*110)	440	107	97	2.50	104
	Alaknada(4*82.5)	330	76	76	1.50	63
	Other Hydro	527	112	63	2.40	100
	Cogeneration	981	700	700	16.80	700
	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	6497	6324	164.61	6859
	Uttarakhand	Other Hydro	1250	644	202	7.70
Total Gas		225	281	292	6.88	287
Wind Power		0	0	0	0.00	0
Biomass		127	0	0	0.00	0
Solar		20	0	0	0.04	2
Small Hydro (< 25 MW)		180	0	0	0.00	0
Renewable(Total)		327	0	0	0.04	2
Total Uttarakhand		1802	925	494	14.61	609
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	47	75	1.90	79
	Pragati Gas Turbine (2x104+ 1x122)	330	264	262	6.44	268
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	256	280	6.03	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	567	616	14.37	599
	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	567	616	14.37	599	

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.30	54
	Malana HPS (IPP) (2*43)	86	44	0	0.28	12
	Other Hydro	372	108	75	2.20	92
	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	72	63	1.58	66
	Renewable(Total)	486	72	63	1.58	66
	Total HP	1244	223	138	5.36	223
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	252	123	3.60
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	390	216	6	265
Total State Control Area Generation		50078	16686	15557	398.98	16624
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5666.42	6026.38	163.11	6796	
Total Regional Availability(Gross)	75315	39316	30244	817.39	34058	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8858	863	65.12	2713
State Control Area Hydro	7163	2345	1612	38.27	1883
Total Regional Hydro	19397	11203	2475	103.39	4596

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.11	5
State Control Area Renewable	7356	172	163	6.99	291
Total Regional Renewable	7386	172	163	7.10	296

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	
Vindhyachal(HVDC B/B)	-300	-300	0	500	0.00	8.25	-8.25
765 KV Gwalior-Agra (D/C)	1808	1610	2655	0	50.03	0.00	50.03
400 KV Zerda-Kankroli	4	-145	61	145	0.00	0.62	-0.62
400 KV Zerda-Bhinmal	88	-39	250	55	1.93	0.00	1.93
220 KV Auraiya-Malanpur	-104	-105	0	117	0.00	1.89	-1.89
220 KV Badod-Kota/Morak	-43	-96	14	103	0.00	0.30	-0.30
Mundra-Mohindergarh(HVDC Bipole)	1201	2198	2206	0.00	36.50	0.00	36.50
400 KV RAPP-C-Sujalpur	360	370	537	0	9.40	0.00	9.40
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kv Phagi-Gwalior (D/C)	915	957	1640	0	30.85	0.00	30.85
Sub Total WR	3929	4450			128.71	11.06	117.65
400 kv Sasaram - Varanasi	112	-66	70	125	0.00	0.16	-0.16
400 kv Sasaram - Allahabad	187	61	0	222	0.00	2.81	-2.81
400 KV MZP- GKP (D/C)	209	398	523	0	9.58	0.00	9.58
400 KV Patna-Balia(D/C) X 2	454	476	608	0	12.31	0.00	12.31
400 KV B'Sharif-Balia (D/C)	137	148	275	0	4.68	0.00	4.68
765 KV Gaya-Balia	200	228	328	0	6.15	0.00	6.15
765 KV Gaya-Varanasi (D/C)	342	394	741	0	12.22	0.00	12.22
220 KV Pusauli-Sahupuri	215	168	215	0	4.22	0.00	4.22
132 KV K'nasa-Sahupuri	-28	-30	0	33	0.00	0.57	-0.57
132 KV Son Ngr-Rihand	-36	-33	0	41	0.00	0.87	-0.87
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	67	-44	258	70	1.99	0.00	1.99
400 KV Barh -GKP (D/C)	348	370	414	0	8.65	0.00	8.65
400 kv B'Sharif - Varanasi (D/C)	30	6	204	0	2.43	0.00	2.43
Sub Total ER	2237	2076			62.20	4.40	57.81
+/- 800 KV Biswanath Charialli-Agra	-500	-500	0	500.00	0.00	12.35	-12.35
Sub Total NER	-500	-500			0.00	12.35	-12.35
Total IR Exch	5666	6026			190.91	27.81	163.11

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
46.84	1.28	48.13	-0.95	-9.78	13.19	6.45	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
60.37	99.95	160.32	45.46	117.65	163.11	-14.91	17.70	2.79

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	-28	-31	0	32	0	1	-0.64

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	0.27	9.19	56.68	73.94	12.50	4.17	0.27	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)		
50.27	18.02	49.77	7.36	49.99	0.047	0.067	0.00	0.00	26.06

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	0:00	402	8:17	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	420	4:01	403	17:39	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	424	2:01	400	12:18	0.0	0.0	15.7	0.0	15.7
Kanpur	400	420	2:01	400	12:18	0.0	0.0	0.0	0.0	0.0
Dadri	400	430	2:01	401	12:10	0.0	0.0	26.5	0.0	26.5
Ballabgarh	400	434	2:02	403	12:18	0.0	0.0	41.0	16.5	41.0
Bawana	400	431	1:00	403	12:12	0.0	0.0	38.6	1.8	38.6
Bassi	400	424	19:43	396	6:15	0.0	0.0	7.1	0.0	7.1
Hissar	400	424	2:02	394	12:19	0.0	0.0	18.5	0.0	18.5
Moga	400	424	0:59	399	12:13	0.0	0.0	22.3	0.0	22.3
Abdullapur	400	428	0:49	398	11:45	0.0	0.0	23.1	0.0	23.1
Nalagarh	400	434	0:52	401	12:19	0.0	0.0	38.5	18.8	38.5
Kishenpur	400	420	1:35	396	11:10	0.0	0.0	0.0	0.0	0.0
Wagoora	400	399	13:01	364	18:15	57.5	84.5	0.0	0.0	57.5
Amritsar	400	433	4:00	406	8:46	0.0	0.0	42.2	13.0	42.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	428	0:55	397	11:14	0.0	0.0	46.7	0.0	46.7
Rishikesh	400	422	2:01	393	12:18	0.0	0.0	2.5	0.0	2.5

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	776	2:01	745	12:18	0.0	0.0	0.0	0.0	0.0
Balia	765	793	2:00	765	17:40	0.0	0.0	0.0	0.0	0.0
Moga	765	806	21:28	758	12:11	0.0	0.0	5.7	0.0	5.7
Agra	765	792	19:43	753	22:08	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	811	1:59	763	12:12	0.0	0.0	25.9	0.0	25.9
Unnao	765	776	2:01	743	12:18	0.0	0.0	0.0	0.0	0.0
Lucknow	765	805	2:01	771	12:18	0.0	0.0	14.1	0.0	14.1
Meerut	765	810	20:57	761	12:18	0.0	0.0	6.7	0.0	6.7
Jhatikara	765	811	4:00	758	12:18	0.0	0.0	21.5	0.0	21.5
Bareilly 765 kV	765	799	2:00	757	12:18	0.0	0.0	0.0	0.0	0.0
Anta	765	800	21:01	718	14:47	2.5	2.5	0.0	0.0	2.5
Phagi	765	802	3:59	764	11:56	0.0	0.0	5.8	0.0	5.8

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	495.52	926.03	506.76	1396.66	170.38	407.73
Pong	426.72	384.05	411.97	566.84	415.88	705.67	60.85	258.25
Tehri	829.79	740.04	818.15	965.25	812.55	862.27	41.37	155.00
Koteswar	612.50	598.50	610.01	4.57	610.62	4.95	155.00	150.79
Chamera-I	760.00	748.75	759.50	0.00	0.00	0.00	53.50	53.50
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	509.88	2.81	506.60	0.54	51.86	124.75

* 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	-456	1	0	-456	0	0	-13.56	0.43	-13.14
Delhi	-240	-339	0	-363	-70	0	-9.39	-1.93	-11.32
Haryana	-596	313	0	-295	245	0	-9.54	6.58	-2.96
HP	292	110	0	198	-65	0	7.93	-0.67	7.26
J&K	353	0	0	336	0	0	7.87	-0.01	7.85
CHD	-30	0	0	-30	0	0	-0.36	0.00	-0.36
Rajasthan	-7	497	0	-7	481	0	6.70	16.48	23.18
UP	119	0	0	-85	0	0	-6.06	-0.11	-6.17
Uttarakhand	146	86	0	146	-97	0	3.71	1.02	4.73
Total	-418	667	0	-555	493	0	-12.72	21.79	9.07

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-456	-719	130	0	0	0
Delhi	-240	-579	303	-361	0	0
Haryana	-68	-613	318	74	0	0
HP	469	198	110	-518	0	0
J&K	353	305	0	-15	0	0
CHD	0	-30	0	0	0	0
Rajasthan	659	-7	1878	461	0	0
UP	146	-698	0	-100	0	0
Uttarakhand	182	146	212	-198	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	5.21%
ER	0.00%
Simultaneous	9.72%

(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	21
Haryana	1	20
Rajasthan	1	16
Delhi	4	26
UP	0	10
Uttarakhand	3	33
HP	1	20
J & K	3	34
Chandigarh	5	25

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 27.11.2016 :**
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.