

पाँवर 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 08.11.2016

Date of Reporting : 09.11.2016



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
40261	577	40839	50.10	30976	623	31599	50.07	844.6	11.18

* 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	45.78	9.81	0.24	55.84	43.21	43.03	-0.18	98.87	0.00
Haryana	33.75	0.61	0.00	34.36	75.98	74.87	-1.10	109.23	0.00
Rajasthan	117.03	4.31	7.52	128.85	75.11	79.03	3.91	207.88	2.04
Delhi	8.03	0.00	0.00	8.03	52.50	53.06	0.56	61.08	0.03
UP	174.73	11.80	0.00	186.53	84.05	82.19	-1.85	268.72	1.74
Uttarakhand	8.64	0.00	0.00	12.99	20.52	21.07	0.55	34.06	0.00
HP	4.41	2.28	6.70	17.78	18.33	18.33	0.55	25.02	0.02
J & K	7.04	0.00	0.00	7.04	33.16	29.43	-3.74	36.47	7.35
Chandigarh	0.00	0.00	0.00	0.00	3.39	3.30	-0.09	3.30	0.00
Total	379.31	46.62	10.04	440.32	405.71	404.31	-1.40	844.63	11.18

* 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	4749	0	-36	-345	3308	0	61	-345	4766	8:00	0
Haryana	6227	0	-131	44	3283	0	-72	-394	6227	19:00	0
Rajasthan	8582	128	99	573	8374	70	343	592	10143	8:00	0
Delhi	3272	0	-36	-99	1686	0	-8	-591	3272	19:00	0
UP	12452	0	176	-208	10951	210	321	132	12452	19:00	0
Uttarakhand	1751	0	54	151	1136	0	-44	238	1751	19:00	0
HP	1258	0	-72	-108	775	0	-12	438	1397	8:00	0
J&K	1798	449	-79	430	1371	343	-69	351	1798	19:00	449
Chandigarh	173	0	-41	-30	92	0	1	-30	174	12:00	0
Total	40261	577	-67	406	30976	623	521	392	40261	19:00	577

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

III. Regional Entities :

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UI (DG:(+ve), UG: (-ve))

Region	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
	Rihand I STPS (2*500)	1000	943	876	886	20.06	836	19.91	0.14
	Rihand II STPS (2*500)	1000	963	787	876	20.10	837	19.81	0.29
	Rihand III STPS (2*500)	1000	963	786	837	19.73	822	19.84	-0.11
	Dadri I STPS (4*210)	840	815	166	167	3.97	166	4.02	-0.05
	Dadri II STPS (2*490)	980	980	712	708	17.04	710	18.05	-1.01
	Unchahar I TPS (2*210)	420	355	290	276	7.09	295	7.17	-0.08
	Unchahar II TPS (2*210)	420	402	304	305	7.49	312	7.83	-0.34
	Unchahar III TPS (1*210)	210	201	148	153	3.67	153	3.86	-0.19
	ISTPP (Jhajjar) (3*500)	1500	1425	294	309	7.63	318	7.81	-0.18
	Dadri GPS (4*130.19+2*154.51)	830	796	396	412	10.39	433	11.20	-0.81
	Anta GPS (3*88.71+1*153.2)	419	393	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	0.02	0.00
	Unchahar Solar(10)	10	1	0	0	0.03	1	0.03	-0.01
	Singrauli Solar(15)	15	2	0	0	0.01	0	0.05	-0.05
	KHEP(4*200)	800	860	852	0	3.26	136	3.00	0.26
	Sub Total (A)	12112	11437	7414	6718	160	6665	161	-1.45
B. NPC	NAPS (2*220)	440	354	444	445	9.63	401	8.48	1.14
	RAPS- B (2*220)	440	385	426	428	9.20	383	9.24	-0.04
	RAPS- C (2*220)	440	214	235	235	4.93	206	5.14	-0.20
	Sub Total (B)	1320	953	1105	1108	23.76	990	22.86	0.90
C. NHPC	Chamera I HPS (3*180)	540	458	548	0	2.24	93	2.00	0.24
	Chamera II HPS (3*100)	300	301	309	0	1.63	68	1.55	0.08
	Chamera III HPS (3*77)	231	231	225	0	0.89	37	0.80	0.09
	Bairasuil HPS(3*60)	180	179	180	0	0.64	27	0.60	0.04
	Salal-HPS (6*115)	690	124	230	224	3.68	153	2.98	0.69
	Tanakpur-HPS (3*31.4)	94	35	51	45	1.03	43	0.83	0.19
	Uri-I HPS (4*120)	480	74	228	21	2.07	86	1.77	0.30
	Uri-II HPS (4*60)	240	54	121	78	1.36	57	1.29	0.07
	Dhauliganga-HPS (4*70)	280	280	284	0	1.40	58	1.33	0.07
	Dulhasti-HPS (3*130)	390	383	384	0	4.41	184	4.20	0.21
	Sewa-II HPS (3*40)	120	119	123	0	0.34	14	0.36	-0.02
	Parbati 3 (4*130)	520	260	260	0	0.70	29	0.65	0.05
	Sub Total (C)	4065	2496	2943	368	20	849	18	2.01
D. SJVNL	NJPC (6*250)	1500	1605	1492	0	9.67	403	9.50	0.17
	Rampur HEP (6*68.67)	412	442	429	0	2.79	116	2.65	0.14
	Sub Total (D)	1912	2047	1921	0	12.46	519	12.15	0.31
E. THDC	Tehri HPS (4*250)	1000	1075	1051	0	7.28	303	7.00	0.28
	Koteshwar HPS (4*100)	400	91	96	90	2.22	93	2.19	0.03
	Sub Total (E)	1400	1166	1147	90	9.51	396	9.19	0.32
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	544	1065	398	13.43	560	13.05	0.38
	Dehar HPS (6*165)	990	181	495	145	4.42	184	4.35	0.07
	Pong HPS (6*66)	396	207	330	132	4.98	208	4.97	0.01
	Sub Total (F)	2765	932	1890	675	22.83	951	22.37	0.47
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.71	29	0.67	0.03
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	5.38	224	5.22	0.17
	Malana Stg-II HPS (2*50)	100	0	0	0	0.33	14	0.31	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	37	0	0.30	12	0.30	-0.01
	Sub Total (G)	1662	0	861	-1	6.68	278	6.50	0.18
H. Total Regional Entities (A-G)		25237	19031	17282	8958	255.57	10649	252.84	2.73

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	-0.17	-7	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.03	-1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.09	-4	
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1	
	Rajpura (2*700)	1400	1120	660	26.48	1103	
	Talwandi Saboo (3*660)	1980	616	616	19.61	817	
	Thermal (Total)	6560	1736	1276	45.78	1908	
	Total Hydro	1000	384	365	9.81	409	
	Wind Power	0	0	0	0.00	0	
	Biomass	288	9	9	0.21	9	
	Solar	560	1	1	0.03	1	
	Renewable(Total)	848	10	10	0.24	10	
	Total Punjab	8408	2130	1651	55.84	2327	
	Haryana	Panipat TPS (2*210+2*250)	920	202	201	4.91	205
		DCRTPP (Yamuna nagar) (2*300)	600	557	464	11.29	471
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	832	722	17.55	731	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1591	1387	33.75	1406	
Total Hydro		62	14	29	0.61	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	1605	1416	34.36	1432	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	916	996	22.48	937
		suratgarh TPS (6*250)	1500	899	846	20.66	861
	Chabra TPS (4*250)	1000	447	655	14.37	599	
	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	116	160	3.16	132	
	RAPS A (NPC) (1*100+1*200)	300	162	165	4.10	171	
	Barsingsar (NLC) (2*125)	250	225	226	5.30	221	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	820	819	19.35	806	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	552	557	13.17	549	
	Kawai(Adani) (2*660)	1320	599	605	14.43	601	
	Thermal (Total)	8876	4736	5029	117.03	4876	
	Total Hydro	550	201	208	4.31	180	
	Wind power	4017	156	125	4.51	188	
	Biomass	99	22	22	0.54	22	
	Solar	1295	0	0	2.47	103	
	Renewable/Others (Total)	5411	178	147	7.52	313	
	Total Rajasthan	14837	5115	5384	128.85	5369	
	UP	Anpara TPS (3*210+2*500)	1630	1238	1128	28.85	1202
Obra TPS (2*50+2*94+5*200)		1194	320	307	7.53	314	
Paricha TPS (2*110+2*220+2*250)		1160	581	581	14.87	620	
Panki TPS (2*105)		210	135	133	2.99	125	
Harduaganj TPS (1*60+1*105+2*250)		665	310	319	8.49	354	
Tanda TPS (NTPC) (4*110)		440	296	207	6.09	254	
Roza TPS (IPP) (4*300)		1200	738	747	21.09	879	
Anpara-C (IPP) (2*600)		1200	1062	630	21.81	909	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	309	282	7.00	292	
Anpara-D(2*500)		1000	452	453	10.58	441	
Lalitpur TPS(3*660)		1980	541	896	17.96	749	
Bara(2*660)		1320	955	906	22.67	945	
Thermal (Total)		12449	6937	6589	169.93	7080	
Vishnuparyag HPS (IPP)(4*110)		440	122	127	7.00	292	
Alaknada(4*82.5)		330	81	75	2.99	125	
Other Hydro		527	71	31	1.81	75	
Cogeneration		981	200	200	4.80	200	
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	7411	7022	186.53	7772	
Uttarakhand		Other Hydro	1250	551	316	8.64	360
		Total Gas	225	176	185	4.30	179
		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	727	501	12.99	541	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.08	-3	
	Delhi Gas Turbine (6x30 + 3x34)	282	77	78	1.91	79	
	Pragati Gas Turbine (2x104+ 1x122)	330	261	262	6.39	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-3	-3	-0.06	-2	
	Badarpur TPS (NTPC) (3*95+2*210)	705	-3	-3	-0.13	-5	
	Thermal (Total)	2917	332	334	8.03	334	
	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	332	334	8.03	334		

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.57	66
	Malana HPS (IPP) (2*43)	86	51	0	0.35	15
	Other Hydro	372	136	100	2.49	104
	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	102	92	2.28	95
	Renewable(Total)	486	102	92	2.28	95
	Total HP	1244	289	191	6.70	279
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	251	143	4.27
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	236	7	293
Total State Control Area Generation		50078	17998	16735	440.32	18347
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6412	6573	170.54	7106	
Total Regional Availability(Gross)	75315	41691	32266	866.43	36101	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9578	1133	74.85	3119
State Control Area Hydro	7163	2278	1763	48.90	2219
Total Regional Hydro	19397	11856	2896	123.75	5338

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.05	2
State Control Area Renewable	7356	290	249	10.09	421
Total Regional Renewable	7386	290	249	10.14	423

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	
Vindhychal(HVDC B/B)	-500	-500	0	500	0.00	12.10	-12.10
765 KV Gwalior-Agra (D/C)	2118	1811	2414	0	50.34	0.00	50.34
400 KV Zerda-Kankroli	-45	-66	57	174	0.00	1.30	-1.30
400 KV Zerda-Bhinmal	3	19	191	155	0.33	0.00	0.33
220 KV Auraiya-Malanpur	-87	-106	0	132	0.00	1.98	-1.98
220 KV Badod-Kota/Morak	-18	1	41	74	0.00	0.32	-0.32
Mundra-Mohindergerh(HVDC Bipole)	1502		1500	0.00	36.31	0.00	36.31
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1241	1393	834	0	35.62	0.00	35.62
Sub Total WR	4214	4054			122.60	15.70	106.90
400 kV Sasaram - Varanasi	-248	-193	0	248	0.00	4.78	-4.78
400 kV Sasaram - Allahabad	150	150	150	0	3.60	0.00	3.60
400 KV MZP- GKP (D/C)	58	203	436	0	4.61	0.00	4.61
400 KV Patna-Balia(D/C) X 2	491	556	739	0	14.94	0.00	14.94
400 KV B'Sharif-Balia (D/C)	6	74	199	6	2.31	0.00	2.31
765 KV Gaya-Balia	182	241	295	0	5.51	0.00	5.51
765 KV Gaya-Varanasi (D/C)	290	314	534	0	8.72	0.00	8.72
220 KV Pusauli-Sahupuri	196	161	200	0	3.63	0.00	3.63
132 KV K'nasa-Sahupuri	0	-22	0	28	0.00	0.53	-0.53
132 KV Son Ngr-Rihand	0	0	0	40	0.00	0.73	-0.73
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-110	-89	131	124	0.00	0.37	-0.37
400 KV Barh -GKP (D/C)	460	444	558	0	10.59	0.00	10.59
400 kV B'Sharif - Varanasi (D/C)	49	2	147	68	0.48	0.00	0.48
Sub Total ER	1524	1841			54.39	6.41	47.98
+/- 800 KV BiswanathChariali-Agra	674	678	683	0.00	15.66	0.00	15.66
Sub Total NER	674	678			15.66	0.00	15.66
Total IR Exch	6412	6573			192.64	22.11	170.54

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
43.80	1.84	45.64	1.43	-12.13	8.34	19.81	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
55.41	114.80	170.21	63.63	106.90	170.54	8.22	-7.90	0.32

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	-24	0	0	24	0	0	-0.04

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	7.63	54.15	72.43	15.93	3.83	0.22	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)	
50.23	13.01	49.80	10.15	49.99	0.041	0.064	50.17	49.95	27.57

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	409	23:33	402	4:40	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	0:00	401	18:22	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	0:07	400	10:39	0.0	0.0	0.5	0.0	0.5
Kanpur	400	418	23:52	403	10:37	0.1	0.1	0.0	0.0	0.1
Dadri	400	423	0:06	405	10:38	0.2	0.2	18.1	0.0	18.3
Ballabgarh	400	430	2:44	408	10:39	0.0	0.0	43.5	0.0	43.5
Bawana	400	426	0:04	407	11:39	0.0	0.0	34.1	0.0	34.1
Bassi	400	421	20:03	390	6:12	0.0	0.0	0.3	0.0	0.3
Hissar	400	423	21:28	401	6:12	0.0	0.0	1.4	0.0	1.4
Moga	400	426	21:28	406	6:51	0.0	0.0	12.4	0.0	12.4
Abdullapur	400	426	21:23	406	6:12	0.0	0.0	22.6	0.0	22.6
Nalagarh	400	434	21:19	410	9:30	0.0	0.0	44.8	3.1	44.8
Kishenpur	400	421	3:01	395	18:08	0.0	0.0	0.3	0.0	0.3
Wagoora	400	409	9:53	363	18:07	34.2	71.6	0.0	0.0	34.2
Amritsar	400	435	21:28	407	9:27	0.0	0.0	39.6	2.5	39.6
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	421	13:06	404	9:07	0.0	0.0	0.2	0.0	0.2
Rishikesh	400	418	0:07	392	11:41	0.0	0.0	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	778	16:31	744	7:33	0.0	0.0	0.0	0.0	0.0
Balia	765	792	23:55	762	17:52	0.0	0.0	0.0	0.0	0.0
Moga	765	807	21:29	771	11:39	0.0	0.0	6.9	0.0	6.9
Agra	765	785	3:58	757	7:35	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	21:28	774	10:38	0.0	0.0	25.5	0.0	25.5
Unnao	765	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Lucknow	765	802	23:40	770	10:39	0.0	0.0	1.3	0.0	1.3
Meerut	765	803	16:32	763	5:42	0.0	0.0	3.6	0.0	3.6
Jhatikara	765	802	21:27	769	10:39	0.0	0.0	3.6	0.0	3.6
Bareilly 765 kV	765	794	0:03	757	10:39	0.0	0.0	0.0	0.0	0.0
Anta	765	799	2:46	777	6:07	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	21:31	764	6:09	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	497.90	1018.16	508.73	1485.27	197.37	379.93
Pong	426.72	384.05	413.66	622.40	417.97	794.52	79.03	310.47
Tehri	829.79	740.04	821.50	1033.95	816.15	925.25	54.90	162.00
Koteswar	612.50	598.50	611.78	5.48	611.02	5.20	162.00	146.33
Chamera-I	760.00	748.75	759.68	0.00	0.00	0.00	57.63	60.27
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	512.26	3.10	509.49	3.97	61.78	127.11

* 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	-345	0	0	-345	0	0	-10.91	-0.18	-11.09
Delhi	-132	-459	0	-229	130	0	-6.46	-0.55	-7.00
Haryana	-628	235	0	-314	357	0	-10.17	4.62	-5.56
HP	342	95	0	72	-180	0	5.08	-0.03	5.05
J&K	351	0	0	444	-15	0	9.51	-0.15	9.36
CHD	-30	0	0	-30	0	0	-0.36	0.01	-0.35
Rajasthan	-7	600	0	-7	581	0	4.42	23.39	27.81
UP	132	0	0	-108	-100	0	-6.17	-1.47	-7.64
Uttarakhand	147	91	0	179	-28	0	3.78	4.98	8.76
Total	-171	562	0	-339	745	0	-11.29	30.63	19.34

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-345	-608	0	-347	0	0
Delhi	-113	-420	363	-500	0	0
Haryana	-314	-628	387	-373	0	0
HP	349	72	264	-560	0	0
J&K	444	348	0	-15	0	0
CHD	0	-30	0	0	10	-25
Rajasthan	452	-7	2250	566	0	0
UP	176	-703	0	-100	0	0
Uttarakhand	179	147	455	-84	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	2	27
Haryana	2	17
Rajasthan	2	24
Delhi	3	28
UP	1	14
Uttarakhand	3	40
HP	5	43
J & K	2	29
Chandigarh	2	27

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 08.11.2016 :**
Normal**XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**400 kV Allahabad-Mejia synchronised at 1700 Hrs
Bay no. 402 & 403 first time charged at Kurukshetra at 1942 and 1931 Hrs on 08.11.16 respectively, Bay no. 419 & 422 first time charged at Kishenpur at 1955 Hrs on 08.11.16.**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.