

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 14.12.2016

Date of Reporting : 15.12.2016



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
41446	1509	42955	50.05	29283	387	29670	50.06	849.09	19.45

* 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	61.32	5.97	1.24	68.53	38.72	38.74	0.02	107.27	0.00
Haryana	39.64	0.40	0.00	40.05	79.34	79.26	-0.08	119.31	0.00
Rajasthan	111.29	4.21	18.14	133.64	67.10	68.29	1.19	201.93	7.66
Delhi	14.36		0.00	14.36	43.56	43.60	0.04	57.95	0.01
UP	169.64	8.00	0.00	177.64	85.04	87.05	2.01	264.69	3.28
Uttarakhand		6.80	0.00	13.60	17.84	19.22	1.39	32.83	0.00
HP		4.55	1.31	5.86	19.34	19.95	0.62	25.81	0.00
J & K		3.31	0.00	3.31	36.52	32.57	-3.95	35.88	8.50
Chandigarh				0.00	3.42	3.44	0.02	3.44	0.00
Total	396.25	33.24	20.68	456.98	390.87	392.11	1.24	849.09	19.45

* 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	5636	0	-277	-749	3045	0	-64	-459	5636	19:00	0
Haryana	6257	0	-98	-217	3479	0	-105	-503	6257	19:00	0
Rajasthan	8831	565	82	214	7953	0	34	313	9107	8:00	383
Delhi	3005	0	4	-497	1367	0	-68	-501	3247	11:00	0
UP	12811	505	-61	-202	9994	0	180	126	12811	19:00	505
Uttarakhand	1721	0	-30	140	1085	0	27	163	1781	8:00	0
HP	1246	0	-31	229	729	0	-12	479	1372	8:00	0
J&K	1756	439	-113	832	1546	387	7	732	1911	1:00	478
Chandigarh	184	0	9	0	85	0	-8	0	201	9:00	0
Total	41446	1509	-516	-250	29283	387	-8	350	41446	19:00	1509

* 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	1863	1994	1505	43.21	1800	42.60	0.61	
Rihand I STPS (2*500)	1000	951	928	714	19.47	811	19.49	-0.02	
Rihand II STPS (2*500)	1000	963	928	694	20.55	856	19.68	0.87	
Rihand III STPS (2*500)	1000	963	919	728	20.17	840	19.54	0.62	
Dadri I STPS (4*210)	840	815	187	133	4.00	167	4.20	-0.20	
Dadri II STPS (2*490)	980	980	902	658	18.00	750	19.32	-1.32	
Unchahar I TPS (2*210)	420	361	380	297	7.77	324	7.87	-0.10	
Unchahar II TPS (2*210)	420	405	424	343	8.71	363	8.84	-0.13	
Unchahar III TPS (1*210)	210	203	218	138	4.29	179	4.40	-0.11	
ISTPP (Jhajjar) (3*500)	1500	1440	651	602	15.31	638	15.53	-0.21	
Dadri GPS (4*130.19+2*154.51)	830	730	352	243	6.20	258	6.59	-0.39	
Anta GPS (3*88.71+1*153.2)	419	412	0	0	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	0.04	1	0.04	0.00	
Singrauli Solar(15)	15	2	0	0	0.01	0	0.05	-0.04	
KHEP(4*200)	800	870	643	0	2.61	109	2.61	0.00	
Sub Total (A)	12112	11584	8526	6055	170	7098	171	-0.41	
B. NPC									
NAPS (2*220)	440	413	448	452	9.92	413	9.91	0.01	
RAPS- B (2*220)	440	383	430	429	9.24	385	9.19	0.04	
RAPS- C (2*220)	440	218	236	237	5.00	208	5.23	-0.23	
Sub Total (B)	1320	1014	1114	1118	24.16	1007	24.34	-0.18	
C. NHPC									
Chamera I HPS (3*180)	540	360	230	0	1.43	60	1.20	0.23	
Chamera II HPS (3*100)	300	201	207	0	1.27	53	1.10	0.17	
Chamera III HPS (3*77)	231	185	185	0	0.65	27	0.56	0.09	
Bairasuli HPS(3*60)	180	120	121	0	0.41	17	0.39	0.02	
Salal-HPS (6*115)	690	96	320	100	2.78	116	2.30	0.49	
Tanakpur-HPS (3*31.4)	94	24	30	33	0.75	31	0.57	0.19	
Uri-I HPS (4*120)	480	71	232	23	1.98	82	1.71	0.27	
Uri-II HPS (4*60)	240	52	80	40	1.33	55	1.25	0.08	
Dhauliganga-HPS (4*70)	280	210	206	0	1.13	47	0.98	0.15	
Dulhasti-HPS (3*130)	390	255	267	0	3.22	134	3.10	0.12	
Sewa-II HPS (3*40)	120	80	84	0	0.27	11	0.25	0.02	
Parbati 3 (4*130)	520	130	133	0	0.43	18	0.39	0.04	
Sub Total (C)	4065	1783	2094	196	16	653	14	1.88	
D.SJVNL									
NJPC (6*250)	1500	1615	1603	0	7.25	302	7.00	0.25	
Rampur HEP (6*68.67)	412	442	428	0	2.01	84	1.95	0.06	
Sub Total (D)	1912	2057	2031	0	9.26	386	8.95	0.31	
E. THDC									
Tehri HPS (4*250)	1000	888	803	0	7.07	295	6.70	0.37	
Koteshwar HPS (4*100)	400	100	204	92	2.49	104	2.41	0.08	
Sub Total (E)	1400	989	1007	92	9.56	398	9.11	0.45	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	615	1016	387	14.87	620	14.75	0.12	
Dehar HPS (6*165)	990	113	495	0	2.86	119	2.71	0.15	
Pong HPS (6*66)	396	131	396	66	3.11	129	3.15	-0.04	
Sub Total (F)	2765	859	1907	453	20.83	868	20.61	0.22	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	41	0	0.48	20	0.46	0.02	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.98	166	3.80	0.18	
Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00	
Shree Cement TPS (2*150)	300	0	-1	-1	-0.04	-2	0.00	-0.04	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.19	8	0.19	0.00	
Sub Total (G)	1662	0	670	-1	4.62	192	4.45	0.17	
H. Total Regional Entities (A-G)	25237	18285	17349	7913	254.43	10601	252.00	2.43	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	370	320	8.00	333
	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	827	783	18.98	791
	Goidwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	660	330	13.59	566
	Talwandi Saboo (3*660)	1980	960	616	20.79	866
	Thermal (Total)	6560	2817	2049	61.32	2555
	Total Hydro	1000	262	133	5.97	249
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	1.11	46
	Solar	560	0	0	0.13	6
	Renewable(Total)	848	0	0	1.24	52
	Total Punjab	8408	3079	2182	68.53	2855
Haryana	Panipat TPS (2*210+2*250)	920	216	216	5.08	212
	DCRTPP (Yamuna nagar) (2*300)	600	553	464	11.58	483
	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	1189	740	22.98	958
	Thermal (Total)	4497	1958	1420	39.64	1652
	Total Hydro	62	8	10	0.40	17
	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	1966	1430	40.05	1669
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	982	815	22.08	920
	suratgarh TPS (6*250)	1500	683	595	15.36	640
	Chabra TPS (4*250)	1000	907	643	17.73	739
	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	170	174	4.13	172
	RAPS A (NPC) (1*100+1*200)	300	166	168	4.21	176
	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	824	820	18.72	780
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1024	883	21.69	904
	Kawai(Adani) (2*660)	1320	0	456	7.38	308
	Thermal (Total)	8876	4756	4554	111.29	4637
	Total Hydro	550	163	172	4.21	176
	Wind power	4017	390	733	15.66	653
	Biomass	99	10	10	0.25	10
	Solar	1295	0	0	2.23	93
	Renewable/Others (Total)	5411	400	743	18.14	756
Total Rajasthan	14837	5319	5469	133.64	5568	
UP	Anpara TPS (3*210+2*500)	1630	766	931	27.00	1125
	Obra TPS (2*50+2*94+5*200)	1194	329	315	7.80	325
	Paricha TPS (2*110+2*220+2*250)	1160	717	582	16.00	667
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	319	238	6.50	271
	Tanda TPS (NTPC) (4*110)	440	285	207	6.34	264
	Roza TPS (IPP) (4*300)	1200	1107	757	22.10	921
	Anpara-C (IPP) (2*600)	1200	630	630	14.80	617
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	81	58	1.60	67
	Anpara-D(2*500)	1000	846	681	19.30	804
	Lalitpur TPS(3*660)	1980	343	290	8.70	363
	Bara(2*660)	1320	875	721	20.30	846
	Thermal (Total)	12449	6298	5410	150.44	6268
	Vishnuparyag HPS (IPP)(4*110)	440	98	88	2.20	92
	Alakanada(4*82.5)	330	76	0	1.30	54
	Other Hydro	527	241	188	4.50	188
	Cogeneration	981	800	800	19.20	800
	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	7513	6486	177.64	7402	
Uttarakhand	Other Hydro	1250	521	177	6.80	283
	Total Gas	225	284	279	6.78	282
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.03	1
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.03	1
Total Uttarakhand	1802	805	456	13.60	567	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	79	81	1.91	80
	Pragati Gas Turbine (2x104+ 1x122)	330	263	264	6.39	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	245	280	6.05	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	587	625	14.36	598
	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	587	625	14.36	598	
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.06	44
	Malana HPS (IPP) (2*43)	86	31	0	0.29	12
	Other Hydro	372	142	98	3.20	133
	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	62	52	1.31	54
	Renewable(Total)	486	62	52	1.31	54
	Total HP	1244	235	149	5.86	244
J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	101	101	2.17	90
	Other Hydro/IPP(including 98 MW Small Hydro)	308	85	23	1.14	47
	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	186	124	3	138	

Total State Control Area Generation	50078	19690	16921	456.98	19041
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4071.78	4770.81	182.11	7588
Total Regional Availability(Gross)	75315	41111	29605	893.52	37230

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8353	740	62.38	2599
State Control Area Hydro	7163	2074	1320	34.55	1723
Total Regional Hydro	19397	10427	2061	96.93	4322

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.06	2
State Control Area Renewable	7356	462	795	20.72	863
Total Regional Renewable	7386	462	795	20.77	866

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	12.21	-12.21
765 KV Gwalior-Agra (D/C)	1539	1883	2318	0	50.03	0.00	50.03
400 KV Zerda-Kankroli	-153	-175	0	175	0.00	2.92	-2.92
400 KV Zerda-Bhimnal	-64	-100	64	170	0.00	0.99	-0.99
220 KV Auraiya-Malanpur	-91	-72	0	122	0.00	1.99	-1.99
220 KV Badod-Kota/Morak	-25	-25	19	110	0.00	0.88	-0.88
Mundra-Mohinderghar(HVDC Bipole)	2504	2002	2507	0.00	55.05	0.00	55.05
400 KV RAPPCC-Sujalpur	-351	-226	420	0	7.39	0.00	7.39
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	833	1206	1549	0	28.00	0.00	28.00
Sub Total WR	3692	3993			140.47	18.99	121.49
400 kV Sasaram - Varanasi	-284	-250	284	0	9.69	0.00	9.69
400 kV Sasaram - Allahabad	54	77	81	0	1.70	0.00	1.70
400 KV MZP- GKP (D/C)	61	399	419	0	7.65	0.00	7.65
400 KV Patna-Balia(D/C) X 2	552	750	851	0	16.65	0.00	16.65
400 KV B'Sharif-Balia (D/C)	47	160	281	0	4.03	0.00	4.03
765 KV Gaya-Balia	200	200	283	0	5.24	0.00	5.24
765 KV Gaya-Varanasi (D/C)	-262	-479	680	0	12.51	0.00	12.51
220 KV Pusauli-Sahupuri	120	102	139	0	2.79	0.00	2.79
132 KV K'nasa-Sahupuri	-24	0	0	30	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-24	-24	0	37	0.00	0.55	-0.55
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-113	-45	113	116	0.00	0.18	-0.18
400 KV Barh -GKP (D/C)	520	472	566	0	11.71	0.00	11.71
400 kV B'Sharif - Varanasi (D/C)	33	-84	182	33	1.88	0.00	1.88
Sub Total ER	880	1278			73.85	1.24	72.61
+/- 800 KV BiswanathCharialli-Agra	-500	-500	0	504.00	0.00	11.99	-11.99
Sub Total NER	-500	-500			0.00	11.99	-11.99
Total IR Exch	4072	4771			214.33	32.22	182.11

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
43.85	0.92	44.78	-1.19	-10.03	15.96	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
59.55	108.31	167.85	60.62	121.49	182.11	1.07	13.18	14.25

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	-29	-30	0	32	0	1	-0.71

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	1.79	21.30	70.59	68.83	7.84	2.08	0.00	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)		
50.16	21.53	49.74	20.34	49.96	0.074	50.11	49.82	31.17	

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	405	0:00	398	15:18	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	3:01	398	17:49	0.0	0.0	2.2	0.0	2.2
Bareilly(PG)400kV	400	424	3:01	398	12:41	0.0	0.0	13.8	0.0	13.8
Kanpur	400	419	3:01	398	9:38	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	3:01	402	12:40	0.0	0.0	24.6	0.0	24.6
Ballabgarh	400	432	3:01	403	11:39	0.0	0.0	36.2	1.1	36.2
Bawana	400	429	3:01	402	12:39	0.0	0.0	30.2	0.0	30.2
Bassi	400	423	4:00	393	12:42	0.0	0.0	1.5	0.0	1.5
Hissar	400	420	0:40	390	11:38	0.0	0.0	0.0	0.0	0.0
Moga	400	423	0:24	396	12:30	0.0	0.0	5.8	0.0	5.8
Abdullapur	400	425	20:55	399	12:41	0.0	0.0	22.0	0.0	22.0
Nalagarh	400	431	21:20	406	12:42	0.0	0.0	39.8	0.6	39.8
Kishenpur	400	423	0:25	396	12:26	0.0	0.0	4.9	0.0	4.9
Wagoora	400	394	9:21	369	15:17	43.5	84.0	0.0	0.0	43.5
Amritsar	400	426	0:28	396	12:29	0.0	0.0	19.2	0.0	19.2
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	0:00	400	15:15	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	423	2:59	392	9:14	0.0	0.0	6.3	0.0	6.3

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	781	3:01	740	9:17	0.0	1.8	0.0	0.0	0.0
Balia	765	794	2:59	754	17:51	0.0	0.0	0.0	0.0	0.0
Moga	765	806	0:30	751	12:40	0.0	0.0	5.6	0.0	5.6

Agra	765	794	3:00	753	9:19	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	21:23	758	12:40	0.0	0.0	23.1	0.0	23.1
Unnao	765	782	2:59	735	9:17	0.0	9.7	0.0	0.0	0.0
Lucknow	765	806	3:02	762	17:51	0.0	0.0	9.7	0.0	9.7
Meerut	765	816	0:43	760	12:40	0.0	0.0	9.0	0.0	9.0
Jhatikara	765	809	3:01	757	12:43	0.0	0.0	20.1	0.0	20.1
Bareilly 765 kV	765	799	3:00	753	12:40	0.0	0.0	0.0	0.0	0.0
Anta	765	802	21:16	772	9:18	0.0	0.0	0.6	0.0	0.6
Phagi	765	804	21:24	766	9:16	0.0	0.0	6.1	0.0	6.1

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	492.09	798.09	504.27	1272.20	163.87	450.24
Pong	426.72	384.05	410.23	504.32	413.71	622.40	68.22	207.19
Tehri	829.79	740.04	813.90	882.26	808.65	782.78	40.38	161.00
Koteshwar	612.50	598.50	609.83	4.44	611.13	4.95	161.00	163.77
Chamera-I	760.00	748.75	759.62	0.00	0.00	0.00	41.10	38.46
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	507.34	2.38	503.05	3.90	31.62	120.64

* 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	-464	5	0	-545	-204	0	-14.04	-0.15	-14.20
Delhi	-284	-217	0	-373	-123	0	-8.90	-0.84	-9.74
Haryana	-844	341	0	-543	326	0	-15.64	7.98	-7.66
HP	406	73	0	265	-37	0	9.76	-1.13	8.63
J&K	615	118	0	611	221	0	14.90	2.66	17.56
CHD	0	0	0	0	0	0	0.00	-0.01	-0.01
Rajasthan	-7	320	0	-7	221	0	4.37	8.60	12.97
UP	126	0	0	-102	-100	0	-6.82	-1.47	-8.29
Uttarakhand	59	104	0	24	116	0	2.34	1.83	4.17
Total	-393	744	0	-670	420	0	-14.02	17.47	3.45

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-443	-756	294	-602	0	0
Delhi	-284	-463	240	-368	0	0
Haryana	-543	-879	627	-76	0	0
HP	545	241	73	-530	0	0
J&K	653	596	240	-245	0	0
CHD	0	0	20	-61	0	0
Rajasthan	448	-7	756	214	0	0
UP	157	-791	0	-100	0	0
Uttarakhand	325	24	403	-111	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	20.49%

(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	14
Haryana	0	12
Rajasthan	0	7
Delhi	4	24
UP	1	17
Uttarakhand	1	13
HP	4	38
J & K	5	48
Chandigarh	5	43

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 14.12.2016 :
Dense Fog in some parts of NR.

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

0

0

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.

Report for : 14.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER