

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 17.12.2016

Date of Reporting : 18.12.2016



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
42439	785	43224	50.05	29390	367	29756	50.06	854.87	11.36

* 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	59.20	8.04	0.30	67.54	40.17	39.36	-0.82	106.90	0.00
Haryana	48.12	0.40	0.00	48.52	75.24	73.68	-1.56	122.20	0.00
Rajasthan	119.90	5.11	4.43	129.44	71.83	72.38	0.55	201.82	0.81
Delhi	11.89		0.00	11.89	43.05	45.22	2.16	57.11	0.00
UP	183.57	7.76	0.00	191.33	79.25	79.24	-0.01	270.57	1.02
Uttarakhand		8.38	0.00	14.87	17.04	17.00	-0.04	31.87	0.00
HP		2.59	1.34	3.93	20.78	20.31	-0.47	24.24	0.34
J & K		4.03	0.00	4.03	37.88	32.73	-5.15	36.76	9.19
Chandigarh				0.00	3.39	3.41	0.02	3.41	0.00
Total	422.69	36.31	6.07	471.55	388.63	383.32	-5.31	854.87	11.36

* 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	5653	0	65	-698	3109	0	-45	-616	5653	19:00	0
Haryana	6268	0	-17	-322	3495	0	38	-573	6268	19:00	0
Rajasthan	9020	274	14	222	7925	0	51	237	9261	8:00	271
Delhi	2957	0	161	-257	1398	0	55	-484	3222	12:00	0
UP	13673	75	219	-187	10120	0	-118	139	13673	19:00	75
Uttarakhand	1695	0	56	343	1087	0	-3	350	1766	8:00	0
HP	1246	0	-21	392	700	0	-74	582	1372	8:00	0
J&K	1742	436	-241	852	1466	367	-107	794	1849	7:00	462
Chandigarh	184	0	-25	-20	88	0	10	0	198	9:00	0
Total	42439	785	212	324	29390	367	-192	429	42439	19:00	785

* 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), UG: (-ve)]

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1863	2044	1470	42.95	1790	42.21	0.75
Rihand I STPS (2*500)	1000	406	473	354	9.07	378	8.73	0.33
Rihand II STPS (2*500)	1000	952	1019	730	21.15	881	20.76	0.39
Rihand III STPS (2*500)	1000	952	1010	722	21.38	891	20.80	0.58
Dadri I STPS (4*210)	840	815	162	156	3.91	163	4.09	-0.18
Dadri II STPS (2*490)	980	980	689	713	17.39	724	17.51	-0.12
Unchahar I TPS (2*210)	420	361	314	272	6.91	288	7.14	-0.23
Unchahar II TPS (2*210)	420	405	331	284	7.39	308	7.78	-0.39
Unchahar III TPS (1*210)	210	203	189	140	3.68	153	3.89	-0.21
ISTPP (Jhajihar) (3*500)	1500	1205	488	601	11.96	498	12.48	-0.52
Dadri GPS (4*130.19+2*154.51)	830	754	252	280	6.45	269	7.04	-0.59
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	0.01	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	1	0.00	0	0.04	-0.04
KHEP(4*200)	800	870	868	437	2.81	117	2.61	0.20
Sub Total (A)	12112	10806	7839	6160	155	6462	155	-0.05
B. NPC								
NAPS (2*220)	440	415	454	459	10.04	418	9.96	0.08
RAPS- B (2*220)	440	385	429	426	9.24	385	9.24	0.00
RAPS- C (2*220)	440	218	237	239	5.06	211	5.23	-0.17
Sub Total (B)	1320	1018	1120	1124	24.34	1014	24.43	-0.09
C. NHPC								
Chamera I HPS (3*180)	540	360	201	0	1.39	58	1.20	0.19
Chamera II HPS (3*100)	300	201	209	0	1.20	50	1.10	0.10
Chamera III HPS (3*77)	231	185	197	0	0.58	24	0.56	0.02
Bairasuli HPS(3*60)	180	179	123	0	0.46	19	0.45	0.01
Salal-HPS (6*115)	690	69	225	30	2.18	91	1.67	0.52
Tanakpur-HPS (3*31.4)	94	23	31	30	0.71	30	0.54	0.17
Uri-I HPS (4*120)	480	76	229	22	1.98	82	1.75	0.23
Uri-II HPS (4*60)	240	53	0	0	0.00	0	1.27	-1.27
Dhauliganga-HPS (4*70)	280	210	213	0	1.01	42	0.91	0.10
Dulhasti-HPS (3*130)	390	257	259	0	3.28	137	3.10	0.18
Sewa-II HPS (3*40)	120	80	85	0	0.24	10	0.25	0.00
Parbati 3 (4*130)	520	130	135	0	0.43	18	0.39	0.04
Sub Total (C)	4065	1823	1906	82	13	561	13	0.28
D.SJVNL								
NJPC (6*250)	1500	1615	1586	0	7.08	295	6.89	0.19
Rampur HEP (6*68.67)	412	442	439	0	1.95	81	1.92	0.04
Sub Total (D)	1912	2057	2025	0	9.03	376	8.81	0.22
E. THDC								
Tehri HPS (4*250)	1000	1060	1026	0	7.21	301	7.00	0.21
Koteshwar HPS (4*100)	400	100	203	92	2.47	103	2.41	0.06
Sub Total (E)	1400	1160	1229	92	9.68	403	9.41	0.27
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	623	1008	386	14.97	624	14.96	0.01
Dehar HPS (6*165)	990	117	495	0	2.98	124	2.82	0.16
Pong HPS (6*66)	396	232	396	132	5.46	227	5.57	-0.12
Sub Total (F)	2765	973	1899	518	23.40	975	23.35	0.05
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	74	0	0.45	19	0.43	0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.41	142	3.56	-0.15
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	0.18	7	0.19	-0.01
Sub Total (G)	1662	0	703	-1	4.00	167	4.18	-0.18
H. Total Regional Entities (A-G)	25237	17837	16721	7975	239.02	9959	238.51	0.51

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout at MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	560	560	12.43	518
	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	566	557	12.90	537
	Goidwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	660	330	12.92	539
	Talwandi Saboo (3*660)	1980	772	616	20.98	874
	Thermal (Total)	6560	2558	2063	59.20	2467
	Total Hydro	1000	408	217	8.04	335
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.25	10
	Solar	560	0	0	0.05	2
	Renewable(Total)	848	0	0	0.30	13
	Total Punjab	8408	2966	2280	67.54	2814
Haryana	Panipat TPS (2*210+2*250)	920	455	407	10.32	430
	DCRTPP (Yamuna nagar) (2*300)	600	568	468	12.07	503
	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	1215	738	25.73	1072
	Thermal (Total)	4497	2238	1613	48.12	2005
	Total Hydro	62	2	9	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	2240	1622	48.52	2022
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1092	1137	25.44
suratgarh TPS (6*250)		1500	902	770	19.92	830
Chabra TPS (4*250)		1000	822	913	20.36	848
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	169	168	4.20	175
RAPS A (NPC) (1*100+1*200)		300	165	171	4.22	176
Barsingar (NLC) (2*125)		250	111	0	0.10	4
Giral LTPS (2*125)		250	0	0	0.00	0
Rajwest LTPS (IPP) (8*135)		1080	823	827	19.36	807
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0
Kalisindh Thermal(2*600)		1200	1120	1116	26.31	1096
Kawai(Adani) (2*660)		1320	0	0	0.00	0
Thermal (Total)		8876	5204	5102	119.90	4996
Total Hydro		550	214	183	5.11	213
Wind power		4017	99	227	3.93	164
Biomass		99	7	7	0.17	7
Solar		1295	6	0	0.32	14
Renewable/Others (Total)		5411	112	234	4.43	185
Total Rajasthan		14837	5530	5519	129.44	5393
UP		Anpara TPS (3*210+2*500)	1630	1208	933	27.66
	Obra TPS (2*50+2*94+5*200)	1194	467	438	11.04	460
	Paricha TPS (2*110+2*220+2*250)	1160	586	577	14.20	592
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	413	412	9.77	407
	Tanda TPS (NTPC) (4*110)	440	384	292	8.00	334
	Roza TPS (IPP) (4*300)	1200	882	747	21.50	896
	Anpara-C (IPP) (2*600)	1200	1073	315	18.97	791
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	58	58	1.37	57
	Anpara-D(2*500)	1000	878	776	18.44	768
	Lalitpur TPS(3*660)	1980	603	599	14.36	599
	Bara(2*660)	1320	873	720	19.06	794
	Thermal (Total)	12449	7425	5867	164.37	6849
	Vishnuparyag HPS (IPP)(4*110)	440	93	93	2.19	91
	Alaknada(4*82.5)	330	76	0	1.18	49
	Other Hydro	527	222	180	4.39	183
	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	8616	6940	191.33	7972
	Uttarakhand	Other Hydro	1250	563	223	8.38
Total Gas		225	275	271	6.45	269
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	838	494	14.87	620
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	79	80	2.04	85
	Pragati Gas Turbine (2x104+ 1x122)	330	149	148	3.63	151
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	280	6.23	259
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	478	508	11.89	495
	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	478	508	11.89	495
	HP	Baspa HPS (IPP) (3*100)	300	70	0	1.19
Malana HPS (IPP) (2*43)		86	40	0	0.26	11
Other Hydro		372	44	8	1.15	48
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	60	51	1.34	56
Renewable(Total)		486	60	51	1.34	56
Total HP		1244	214	60	3.93	164
J & K		Baqilhar HPS (IPP) (3*150+3*150)	900	143	123	3.03
	Other Hydro/IPP(including 98 MW Small Hydro)	308	86	20	1.00	42
	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	229	143	4	168

Total State Control Area Generation	50078	21111	17566	471.55	19648
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5711.75	5195.16	186.38	7766
Total Regional Availability(Gross)	75315	43544	30736	896.94	37373

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8631	1129	62.24	2593
State Control Area Hydro	7163	2296	1379	37.64	1839
Total Regional Hydro	19397	10927	2507	99.89	4432

V. Total Renewable Generation:

Regional Entities Renewable	30	0	1	0.05	2
State Control Area Renewable	7356	172	285	6.11	255
Total Regional Renewable	7386	172	286	6.16	257

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)	-300	-500	0	0	0.00	9.33	-9.33
765 KV Gwalior-Agra (D/C)	1914	1896	2389	0	50.11	0.00	50.11
400 KV Zerda-Kankroli	-86	-157	9	157	0.00	1.70	-1.70
400 KV Zerda-Bhimnal	57	-11	128	95	0.75	0.00	0.75
220 KV Auraiya-Malanpur	-105	-74	0	127	0.00	1.87	-1.87
220 KV Badod-Kota/Morak	-58	-104	97	103	0.00	0.98	-0.98
Mundra-Mohinderghar(HVDC Bipole)	1798	1498	1805	0.00	42.89	0.00	42.89
400 KV RAPPCC-Sujalpur	-330	-274	380	0	7.07	0.00	7.07
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1065	1054	1601	0	30.34	0.00	30.34
Sub Total WR	3955	3328			131.15	13.89	117.27
400 kV Sasaram - Varanasi	-276	-238	276	0	9.21	0.00	9.21
400 kV Sasaram - Allahabad	68	105	107	0	2.11	0.00	2.11
400 KV MZP- GKP (D/C)	125	366	449	0	7.89	0.00	7.89
400 KV Patna-Balia(D/C) X 2	776	747	895	0	19.32	0.00	19.32
400 KV B'Sharif-Balia (D/C)	154	164	392	0	5.63	0.00	5.63
765 KV Gaya-Balia	298	234	405	0	7.14	0.00	7.14
765 KV Gaya-Varanasi (D/C)	-397	-466	822	0	13.71	0.00	13.71
220 KV Pusauli-Sahupuri	176	114	176	0	3.00	0.00	3.00
132 KV K'nasa-Sahupuri	-40	-28	0	40	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-38	-26	0	38	0.00	0.71	-0.71
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-108	-22	149	108	0.64	0.00	0.64
400 KV Barh -GKP (D/C)	482	504	562	0	11.75	0.00	11.75
400 kV B'Sharif - Varanasi (D/C)	37	-87	204	37	2.04	0.00	2.04
Sub Total ER	1257	1367			82.43	1.22	81.21
+/- 800 KV BiswanathChariali-Agra	500	500	0	500.00	0.00	12.10	-12.10
Sub Total NER	500	500			0.00	12.10	-12.10
Total IR Exch	5712	5195			213.58	27.21	186.38

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
44.24	0.76	45.00	3.28	-9.31	12.09	12.03	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
60.38	120.81	181.19	69.11	117.27	186.38	8.73	-3.54	5.19

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	-29	0	31	0	1	-0.73

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	0.57	11.82	59.86	71.89	12.95	3.67	0.19	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)		
50.21	21.58	49.74	21.09	49.98	0.052	0.070	50.13	49.87	28.11

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	406	3:05	398	10:16	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	1:59	392	18:59	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	2:01	399	11:19	0.0	0.0	1.1	0.0	1.1
Kanpur	400	419	2:04	396	9:36	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	2:57	403	11:17	0.0	0.0	22.6	0.0	22.6
Ballabgarh	400	432	2:02	404	11:20	0.0	0.0	38.4	6.6	38.4
Bawana	400	429	2:02	407	11:16	0.0	0.0	34.6	0.0	34.6
Bassi	400	425	20:59	107	12:06	0.3	0.3	7.9	0.0	8.2
Hissar	400	421	2:03	396	11:22	0.0	0.0	0.3	0.0	0.3
Moga	400	422	2:02	401	9:36	0.0	0.0	4.9	0.0	4.9
Abdullapur	400	426	2:02	408	9:20	0.0	0.0	24.0	0.0	24.0
Nalagarh	400	428	2:08	410	9:35	0.0	0.0	36.8	0.0	36.8
Kishenpur	400	422	2:03	400	11:18	0.0	0.0	1.4	0.0	1.4
Wagoora	400	392	0:54	369	18:13	49.1	84.8	0.0	0.0	49.1
Amritsar	400	430	3:05	401	9:24	0.0	0.0	23.5	0.0	23.5
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	0:01	402	7:46	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	421	2:03	396	9:09	0.0	0.0	1.7	0.0	1.7

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	778	0:39	739	9:36	0.0	2.7	0.0	0.0	0.0
Balia	765	787	2:43	764	6:49	0.0	0.0	0.0	0.0	0.0
Moga	765	799	0:05	761	9:38	0.0	0.0	0.0	0.0	0.0

Agra	765	790	0:38	749	9:37	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	2:00	766	9:32	0.0	0.0	24.5	0.0	24.5
Unnao	765	782	2:40	729	9:36	0.0	12.0	0.0	0.0	0.0
Lucknow	765	794	2:05	750	18:26	0.0	0.0	0.0	0.0	0.0
Meerut	765	809	0:05	764	9:37	0.0	0.0	7.5	0.0	7.5
Jhatikara	765	808	2:01	758	9:37	0.0	0.0	17.6	0.0	17.6
Bareilly 765 kV	765	793	2:03	751	9:37	0.0	0.0	0.0	0.0	0.0
Anta	765	798	21:59	762	9:39	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	2:03	761	9:41	0.0	0.0	11.3	0.0	11.3

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	491.40	778.28	503.70	1258.87	135.81	458.48
Pong	426.72	384.05	409.85	494.27	413.25	611.20	54.14	363.67
Tehri	829.79	740.04	813.05	862.27	807.65	756.44	39.87	165.00
Koteshwar	612.50	598.50	610.15	4.69	610.85	4.95	165.00	162.57
Chamera-I	760.00	748.75	759.76	0.00	0.00	0.00	41.76	37.36
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	506.96	2.29	502.21	4.16	39.88	103.78

* 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	-617	1	0	-698	0	0	-18.10	3.54	-14.56
Delhi	-182	-302	0	-271	15	0	-5.62	-3.32	-8.94
Haryana	-940	367	0	-650	328	0	-17.82	8.39	-9.43
HP	504	79	0	411	-19	0	12.82	-1.45	11.37
J&K	617	177	0	611	240	0	14.60	4.31	18.91
CHD	0	0	0	0	-20	0	0.00	-0.10	-0.10
Rajasthan	-7	244	0	-7	229	0	4.37	13.82	18.20
UP	139	0	0	-88	-100	0	-6.55	-1.34	-7.89
Uttarakhand	291	60	0	291	53	0	7.13	1.35	8.49
Total	-197	626	0	-401	724	0	-9.15	25.20	16.05

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-596	-983	589	0	0	0
Delhi	-124	-361	73	-486	0	0
Haryana	-610	-968	370	202	0	0
HP	673	387	79	-691	0	0
J&K	617	598	279	-96	0	0
CHD	0	0	10	-61	0	0
Rajasthan	448	-7	1103	223	0	0
UP	172	-797	0	-100	0	0
Uttarakhand	322	291	172	-90	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	0	10
Haryana	0	12
Rajasthan	3	15
Delhi	6	66
UP	2	16
Uttarakhand	2	24
HP	4	30
J & K	3	20
Chandigarh	4	23

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 17.12.2016 :
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
0.00
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 : 17.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER