

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.10.2016

Date of Reporting : 29.10.2016



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
43432	1001	44432	50.10	33019	311	33331	50.06	896.3	14.91

* 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	50.39	9.66	0.75	60.81	53.94	53.40	-0.54	114.20	0.00
Haryana	31.18	0.63	0.00	31.81	88.32	87.99	-0.33	119.80	0.00
Rajasthan	116.50	4.05	7.71	128.25	65.22	68.54	3.32	196.79	6.08
Delhi	14.92		0.00	14.92	58.38	57.13	-1.24	72.06	0.01
UP	175.87	12.23	0.00	188.10	110.36	106.76	-3.60	294.85	0.00
Uttarakhand		9.81	0.00	13.06	20.52	22.00	1.48	35.05	0.00
HP		5.27	2.52	7.78	16.14	17.09	0.96	24.88	0.00
J & K		7.10	0.00	7.10	31.21	28.18	-3.03	35.28	8.82
Chandigarh				0.00	3.68	3.44	-0.24	3.44	0.00
Total	388.87	48.73	10.97	451.82	447.76	444.52	-3.24	896.34	14.91

* Shortage furnished by the respective constituent.\$ 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	5212	0	-202	-804	3836	0	73	-193	5212	19:00	0
Haryana	6769	0	-340	340	3761	0	-7	267	6769	19:00	0
Rajasthan	8063	579	327	417	8298	0	213	647	8978	7:00	110
Delhi	3645	0	-168	-133	2420	0	31	-354	3645	19:00	0
UP	14858	0	-459	1554	11390	0	213	155	15239	20:00	0
Uttarakhand	1791	0	85	137	1221	0	19	369	1795	18:00	0
HP	1224	0	222	-317	750	0	-32	288	1296	9:00	0
J&K	1687	422	-209	340	1245	311	-107	297	1719	20:00	430
Chandigarh	184	0	-45	0	97	0	7	0	185	18:00	0
Total	43432	1001	-789	1535	33019	311	410	1477	43432	19:00	1001

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

Diversity is 1.03

UI [OG:(+ve), UG: (-ve)]

III. Regional Entities :

Entity	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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1315	1463	1485	32.24	1343	31.36	0.88
	Rihand I STPS (2*500)	1000	942	1025	874	21.95	915	21.78	0.17
	Rihand II STPS (2*500)	1000	943	1034	870	22.19	925	21.55	0.64
	Rihand III STPS (2*500)	1000	486	517	464	13.64	568	11.25	2.39
	Dadri I STPS (4*210)	840	815	322	277	7.08	295	7.24	-0.16
	Dadri II STPS (2*490)	980	980	790	662	17.91	746	19.24	-1.34
	Unchahar I TPS (2*210)	420	337	379	275	7.15	298	7.26	-0.11
	Unchahar II TPS (2*210)	420	402	414	274	8.05	335	8.34	-0.29
	Unchahar III TPS (1*210)	210	201	202	148	3.99	166	4.05	-0.06
	ISTPP (Jhajjar) (3*500)	1500	1425	461	404	9.90	412	10.13	-0.23
	Dadri GPS (4*130.19+2*154.51)	830	785	299	369	8.58	358	8.78	-0.20
	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	0.02	-0.01
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.05	0.00
	Singrauli Solar(15)	15	2	0	0	0.05	2	0.05	0.00
Sub Total (A)	12112	10505	7765	6102	157	6541	155	2.16	
B. NPC	NAPS (2*220)	440	402	422	442	9.54	397	9.65	-0.11
	RAPS- B (2*220)	440	385	431	431	9.26	386	9.24	0.02
	RAPS- C (2*220)	440	200	210	192	4.13	172	2.50	1.63
	Sub Total (B)	1320	987	1063	1065	22.92	955	21.39	1.54
C. NHPC	Chamera I HPS (3*180)	540	540	547	0	2.73	114	2.50	0.23
	Chamera II HPS (3*100)	300	301	311	0	1.99	83	1.75	0.24
	Chamera III HPS (3*77)	231	231	225	0	1.24	51	1.10	0.14
	Bairasuil HPS(3*60)	180	179	122	0	0.80	33	0.75	0.05
	Salal-HPS (6*115)	690	127	30	125	3.52	147	3.04	0.48
	Tanakpur-HPS (3*31.4)	94	42	44	61	1.25	52	1.00	0.25
	Uri-I HPS (4*120)	480	88	132	27	2.42	101	2.12	0.30
	Uri-II HPS (4*60)	240	60	121	76	1.53	64	1.43	0.10
	Dhauliganga-HPS (4*70)	280	280	281	0	1.49	62	1.38	0.11
	Dulhasti-HPS (3*130)	390	383	396	157	5.99	250	5.60	0.39
	Sewa-II HPS (3*40)	120	119	35	0	0.32	13	0.36	-0.04
	Parbati 3 (4*130)	520	287	264	0	0.78	32	0.74	0.04
Sub Total (C)	4065	2635	2508	446	24	1002	22	2.27	
D.SJVNL	NJPC (6*250)	1500	1605	1618	0	10.78	449	10.61	0.17
	Rampur HEP (6*68.67)	412	442	445	0	3.11	129	2.95	0.15
	Sub Total (D)	1912	2047	2063	0	13.88	578	13.56	0.32
E. THDC	Tehri HPS (4*250)	1000	1071	1052	0	7.36	307	7.00	0.36
	Koteshwar HPS (4*100)	400	91	102	90	2.23	93	2.19	0.04
	Sub Total (E)	1400	1163	1154	90	9.59	399	9.19	0.40
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	522	1047	373	12.97	540	12.53	0.44
	Dehar HPS (6*165)	990	215	495	155	5.32	222	5.16	0.16
	Pong HPS (6*66)	396	135	264	66	3.28	137	3.24	0.04
	Sub Total (F)	2765	872	1806	594	21.57	899	20.93	0.64
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	107	0	0.81	34	0.75	0.06
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	6.15	256	5.93	0.22
	Malana Stg-II HPS (2*50)	100	0	0	0	0.46	19	0.44	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	25	10	0.28	12	0.35	-0.08
	Sub Total (G)	1662	0	957	9	7.67	320	7.48	0.19
H. Total Regional Entities (A-G)	25237	18210	17316	8307	256.66	10694	249.15	7.51	

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	3.66	152
	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	202	204	4.77	199
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	1320	1070	29.63	1235
	Talwandi Saboo (3*660)	1980	614	308	12.38	516
	Thermal (Total)	6560	2296	1742	50.39	2100
	Total Hydro	1000	492	336	9.66	403
	Wind Power	0	0	0	0.00	0
	Biomass	288	19	19	0.45	19
	Solar	560	0	0	0.30	12
	Renewable(Total)	848	19	19	0.75	31
	Total Punjab	8408	2807	2097	60.81	2534
Haryana	Panipat TPS (2*210+2*250)	920	210	198	4.98	207
	DCRTPP (Yamuna nagar) (2*300)	600	543	232	7.21	301
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	1113	753	18.99	791
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	4497	1866	1183	31.18	1299
	Total Hydro	62	10	33	0.63	26
	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	1876	1216	31.81	1325
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1132	1125	27.16	1132
	suratgarh TPS (6*250)	1500	1151	963	26.35	1098
	Chabra TPS (4*250)	1000	588	926	20.20	842
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Rangarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	73	51	1.70	71
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	227	227	5.35	223
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	585	588	13.97	582
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	545	540	12.12	505
	Kawai(Adani) (2*660)	1320	0	608	9.66	402
	Thermal (Total)	8876	4301	5028	116.50	4854
	Total Hydro	550	177	169	4.05	169
	Wind power	4017	119	178	4.25	177
	Biomass	99	19	19	0.47	19
	Solar	1295	0	0	2.99	125
Renewable/Others (Total)	5411	138	197	7.71	321	
Total Rajasthan	14837	4616	5394	128.25	5344	
UP	Anpara TPS (3*210+2*500)	1630	1208	1174	28.09	1170
	Obra TPS (2*50+2*94+5*200)	1194	275	293	7.06	294
	Paricha TPS (2*110+2*220+2*250)	1160	867	658	16.45	685
	Panki TPS (2*105)	210	144	135	3.30	138
	Harduaganj TPS (1*60+1*105+2*250)	665	533	387	10.18	424
	Tanda TPS (NTPC) (4*110)	440	343	365	8.08	337
	Roza TPS (IPP) (4*300)	1200	1098	743	21.17	882
	Anpara-C (IPP) (2*600)	1200	1017	972	24.51	1021
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	404	282	7.27	303
	Anpara-D(2*500)	1000	423	444	10.48	437
	Lalitpur TPS(3*660)	1980	1162	951	23.80	992
	Bara(2*660)	1320	550	547	13.10	546
	Thermal (Total)	12449	8024	6951	173.47	7228
	Vishnuparyag HPS (IPP)(4*110)	440	182	177	7.27	303
	Alaknanda(4*82.5)	330	83	83	3.30	138
	Other Hydro	527	54	37	1.66	69
	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	8443	7348	188.10	7837	
Uttarakhand	Other Hydro	1250	648	309	9.81	409
	Total Gas	225	123	133	3.19	133
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.06	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.06	2
	Total Uttarakhand	1802	771	442	13.06	544
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	75	78	1.85	77
	Pragati Gas Turbine (2x104+ 1x122)	330	261	268	3.55	148
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	301	255	5.97	249
	Badarpur TPS (NTPC) (3*95+2*210)	705	325	334	3.57	149
	Thermal (Total)	2917	962	935	14.92	622
	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	962	935	14.92	622	

HP	Baspa HPS (IPP) (3*100)	300	32	64	1.97	82
	Malana HPS (IPP) (2*43)	86	44	0	0.46	19
	Other Hydro	372	141	110	2.84	118
	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	107	99	2.52	105
	Renewable(Total)	486	107	99	2.52	105
	Total HP	1244	325	274	7.78	324
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	292	143	4.33
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	430	236	7	296	
Total State Control Area Generation		50078	20229	17941	451.82	18826
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7800	9488	35736	219.30	9138
Total Regional Availability(Gross)		75315	45345	35736	927.78	38658

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9322	1130	80.72	3363
State Control Area Hydro	7163	2524	1787	51.25	2271
Total Regional Hydro	19397	11846	2917	131.97	5634

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.11	5
State Control Area Renewable	7356	264	315	11.03	460
Total Regional Renewable	7386	264	315	11.14	464

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)	-250	-250	0	250	5.18	1.58	3.60
765 KV Gwalior-Agra (D/C)	2112	2434	2744	0	56.41	0.00	56.41
400 KV Zerda-Kankroli	72	36	113	69	0.66	0.00	0.66
400 KV Zerda-Bhinmal	153	108	207	71	2.39	0.00	2.39
220 KV Auraiya-Malanpur	-43	-45	0	50	0.00	0.69	-0.69
220 KV Badod-Kota/Morak	3	7	28	58	0.00	0.25	-0.25
Mundra-Mohindergarh(HVDC Bipole)	2298	2303	2306	0.00	55.62	0.00	55.62
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1379	1325	774	0	33.01	0.00	33.01
Sub Total WR	5724	5918			153.27	2.51	150.75
Pusauli Bypass/HVDC	39	90	109	0	1.77	0.00	1.77
400 KV MZP- GKP (D/C)	353	670	779	0	13.86	0.00	13.86
400 KV Patna-Balia(D/C) X 2	625	700	740	0	16.23	0.00	16.23
400 KV B'Sharif-Balia (D/C)	77	206	280	0	4.50	0.00	4.50
765 KV Gaya-Balia	257	316	358	0	6.82	0.00	6.82
765 KV Gaya-Varanasi (D/C)	504	596	712	0	14.28	0.00	14.28
220 KV Pusauli-Sahupuri	237	201	237	0	4.88	0.00	4.88
132 KV K'nasa-Sahupuri	-32	-24	0	54	0.00	0.65	-0.65
132 KV Son Ngr-Rihand	-36	-42	0	46	0.00	0.95	-0.95
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-145	-37	0	176	0.00	0.70	-0.70
400 KV Barh -GKP (D/C)	446	456	484	0	10.01	0.00	10.01
400 kV B'Sharif - Varanasi (D/C)	51	138	188	0	2.95	0.00	2.95
Sub Total ER	2376	3270			75.28	2.30	72.98
+/- 800 KV BiswanathCharialli-Agra	-300	300	300	500.00	0.83	5.25	-4.42
Sub Total NER	-300	300			0.83	5.25	-4.42
Total IR Exch	7800	9488			229.37	10.07	219.30

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 Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
79.51	132.42	211.93	68.55	150.75	219.30	-10.96	18.33	7.37

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	0	0	0	0.00

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	0.76	14.25	69.25	76.22	7.80	1.31	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)	
50.18	18.01	49.77	17.26	49.97	0.051	0.064	50.10	0.00	23.78

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	0:26	402	17:21	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	5:02	397	18:13	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	416	1:57	398	10:08	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	2:01	402	11:09	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	2:02	398	11:15	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	426	1:17	403	11:11	0.0	0.0	31.3	0.0	31.3
Bawana	400	425	1:18	400	11:42	0.0	0.0	20.5	0.0	20.5
Bassi	400	423	21:51	397	5:50	0.0	0.0	2.5	0.0	2.5
Hissar	400	420	1:20	397	12:17	0.0	0.0	0.0	0.0	0.0
Moga	400	424	1:59	399	12:16	0.0	0.0	15.5	0.0	15.5
Abdullapur	400	426	1:22	400	12:49	0.0	0.0	27.8	0.0	27.8
Nalagarh	400	434	1:52	405	12:16	0.0	0.0	42.5	13.4	42.5
Kishenpur	400	421	2:59	392	10:25	0.0	0.0	0.7	0.0	0.7
Wagoora	400	407	3:33	368	18:13	22.3	67.9	0.0	0.0	22.3
Amritsar	400	430	1:42	398	12:16	0.0	0.0	37.0	0.0	37.0
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	413	23:54	388	11:36	0.0	2.0	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	2:01	743	10:06	0.0	0.0	0.0	0.0	0.0
Balia	765	783	1:21	754	18:14	0.0	0.0	0.0	0.0	0.0
Moga	765	804	1:58	733	5:11	0.0	0.2	10.0	0.0	10.0
Agra	765	786	2:02	750	9:44	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	804	21:52	764	10:08	0.0	0.0	0.7	0.0	0.7
Unnao	765	766	1:59	738	18:28	0.0	4.9	0.0	0.0	0.0
Lucknow	765	793	5:02	760	18:28	0.0	0.0	0.0	0.0	0.0
Meerut	765	805	2:01	758	11:40	0.0	0.0	7.5	0.0	7.5
Jhatikara	765	799	2:00	763	11:11	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	786	2:02	753	18:27	0.0	0.0	0.0	0.0	0.0
Anta	765	798	20:47	765	10:11	0.0	0.0	0.0	0.0	0.0
Phagi	765	799	21:38	751	5:59	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	499.02	1053.16	509.54	1530.03	269.49	392.73
Pong	426.72	384.05	415.05	680.86	418.82	834.82	47.18	203.43
Tehri	829.79	740.04	823.30	1068.00	818.25	966.00	59.79	160.00
Koteswar	612.50	598.50	610.61	4.69	609.09	4.21	160.00	146.70
Chamera-I	760.00	748.75	760.00	0.00	0.00	0.00	73.85	73.85
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	513.82	4.58	511.84	3.71	67.57	210.78

* 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	-193	0	0	-503	-302	0	-6.28	-1.15	-7.43
Delhi	6	-360	0	-94	-38	0	-0.35	-1.81	-2.16
Haryana	-56	323	0	165	175	0	1.66	0.55	2.21
HP	280	8	0	-105	-212	0	3.74	-2.07	1.67
J&K	178	119	0	161	179	0	4.16	2.56	6.72
CHD	0	0	0	0	0	0	0.00	0.19	0.19
Rajasthan	-5	651	0	-7	424	0	-0.13	15.36	15.23
UP	155	0	0	1144	410	0	8.32	5.15	13.47
Uttarakhand	12	357	0	25	112	0	0.39	7.73	8.13
Total	378	1099	0	786	749	0	11.51	26.52	38.02

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-93	-503	0	-352	0	0
Delhi	6	-94	188	-488	0	0
Haryana	237	-77	401	-615	0	0
HP	290	-105	460	-562	0	0
J&K	178	161	279	0	0	0
CHD	0	0	0	0	30	-19
Rajasthan	-5	-7	1285	424	0	0
UP	1393	-139	864	-100	0	0
Uttarakhand	25	12	550	83	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	0.35%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	39.93%
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	1	19
Haryana	1	13
Rajasthan	3	36
Delhi	4	28
UP	4	28
Uttarakhand	2	15
HP	2	29
J & K	5	46
Chandigarh	4	34

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 28.10.2016 :**
Normal**XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**

1. New 240MVA ICT-1 at 400kV Muradnagar-2 taken on load at 17:38 hrs. on 28-10-2016.

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 : 28.10.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER