

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पाररिगिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 24.12.2016

Date of Reporting : 25.12.2016



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
42324	879	43203	50.05	29674	368	30042	50.06	856.09	14.01

* 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	58.30	9.93	0.36	68.59	33.84	34.30	0.46	102.89	0.00
Haryana	38.10	0.20	0.00	38.30	78.64	77.82	-0.82	116.12	0.00
Rajasthan	119.68	4.37	6.69	130.74	71.07	73.34	2.27	204.07	3.61
Delhi	11.76	0.00	0.00	11.76	44.90	44.89	0.00	56.66	0.03
UP	180.26	7.55	0.00	187.81	90.10	89.49	-0.61	277.30	1.10
Uttarakhand	9.81	0.00	0.00	15.25	18.29	17.17	-1.12	32.43	0.00
HP	4.66	0.00	1.11	4.66	21.11	21.53	0.42	26.20	0.01
J & K	4.02	0.00	0.00	4.02	39.07	33.01	-6.06	37.03	9.26
Chandigarh	0.00	0.00	0.00	0.00	3.43	3.40	-0.03	3.40	0.00
Total	408.10	40.54	8.15	461.12	400.46	394.97	-5.49	856.09	14.01

* 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	5329	0	188	-812	3158	0	37	-624	5329	19:00	0
Haryana	6310	0	-125	-403	3377	0	-19	-633	6310	19:00	0
Rajasthan	9363	433	246	349	8029	0	105	719	9499	8:00	0
Delhi	2852	0	-117	-483	1417	0	154	-471	3276	11:00	0
UP	13553	0	-186	-195	10224	0	26	120	13553	19:00	0
Uttarakhand	1662	0	-104	309	1148	0	-20	220	1800	8:00	0
HP	1290	1	76	279	759	0	5	589	1345	10:00	0
J&K	1782	446	-121	842	1474	368	-164	821	1782	19:00	446
Chandigarh	183	0	-17	0	88	0	-5	0	198	9:00	0
Total	42324	879	-161	-113	29674	368	118	740	42324	19:00	879

* 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	1855	2013	1627	43.04	1793	43.07	-0.03	
Rihand I STPS (2*500)	1000	843	900	670	18.40	767	18.76	-0.36	
Rihand II STPS (2*500)	1000	894	972	724	20.07	836	19.91	0.16	
Rihand III STPS (2*500)	1000	950	920	719	20.83	868	20.93	-0.10	
Dadri I STPS (4*210)	840	815	213	160	4.25	177	4.47	-0.22	
Dadri II STPS (2*490)	980	980	722	681	18.57	774	19.47	-0.90	
Unchahar I TPS (2*210)	420	359	375	274	6.86	286	7.65	-0.80	
Unchahar II TPS (2*210)	420	405	361	258	7.42	309	8.66	-1.25	
Unchahar III TPS (1*210)	210	203	175	135	3.72	155	4.32	-0.60	
ISTPP (Jhajjar) (3*500)	1500	1440	745	341	12.95	539	13.15	-0.20	
Dadri GPS (4*130.19+2*154.51)	830	750	241	243	6.22	259	6.89	-0.66	
Anta GPS (3*88.71+1*153.2)	419	417	0	0	0.00	0.00	0.00	0.00	
Auraiya GPS (4*111.19+2*109.30)	663	625	0	0	0.00	0.00	0.00	0.00	
Dadri Solar(5)	5	1	0	0	0.01	1	0.02	0.00	
Unchahar Solar(10)	10	1	0	0	0.02	1	0.03	0.00	
Singrauli Solar(15)	15	2	0	0	0.04	2	0.06	-0.01	
KHEP(4*200)	800	870	645	0	2.36	98	2.61	-0.25	
Sub Total (A)	12112	11408	8282	5832	165	6865	170	-5.24	
B. NPC									
NAPS (2*220)	440	420	451	456	9.98	416	10.08	-0.10	
RAPS- B (2*220)	440	385	427	432	9.25	386	9.24	0.01	
RAPS- C (2*220)	440	220	239	238	5.06	211	5.28	-0.22	
Sub Total (B)	1320	1025	1117	1126	24.29	1012	24.60	-0.31	
C. NHPC									
Chamera I HPS (3*180)	540	360	368	0	1.59	66	1.45	0.14	
Chamera II HPS (3*100)	300	201	210	0	1.08	45	0.98	0.10	
Chamera III HPS (3*77)	231	167	149	0	0.51	21	0.50	0.01	
Bairasuli HPS(3*60)	180	120	122	0	0.43	18	0.42	0.01	
Salal-HPS (6*115)	690	77	228	50	2.27	94	1.85	0.42	
Tanakpur-HPS (3*31.4)	94	24	26	30	0.69	29	0.58	0.11	
Uri-I HPS (4*120)	480	81	209	43	2.05	86	1.94	0.11	
Uri-II HPS (4*60)	240	49	121	39	1.21	51	1.17	0.04	
Dhauliganga-HPS (4*70)	280	210	207	0	0.96	40	0.88	0.08	
Dulhasti-HPS (3*130)	390	257	266	0	2.94	123	2.80	0.14	
Sewa-II HPS (3*40)	120	80	25	0	0.19	8	0.25	-0.06	
Parbati 3 (4*130)	520	130	135	0	0.41	17	0.39	0.02	
Sub Total (C)	4065	1756	2066	162	14	598	13	1.15	
D.SJVNL									
NJPC (6*250)	1500	1615	1603	0	7.06	294	6.99	0.07	
Rampur HEP (6*68.67)	412	442	440	0	1.97	82	1.95	0.02	
Sub Total (D)	1912	2057	2043	0	9.03	376	8.94	0.10	
E. THDC									
Tehri HPS (4*250)	1000	1032	1033	0	8.09	337	8.00	0.09	
Koteshwar HPS (4*100)	400	121	102	92	2.92	122	2.90	0.02	
Sub Total (E)	1400	1153	1135	92	11.01	459	10.90	0.11	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	520	992	358	12.98	541	12.48	0.50	
Dehar HPS (6*165)	990	100	330	0	2.4				

	Rajpura (2*700)	1400	820	660	23.59	983
	Talwandi Saboo (3*660)	1980	924	924	26.36	1099
	Thermal (Total)	6560	2192	1944	58.30	2429
	Total Hydro	1000	422	391	9.93	414
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.30	13
	Solar	560	0	0	0.06	2
	Renewable(Total)	848	0	0	0.36	15
	Total Punjab	8408	2614	2335	68.59	2858
Haryana	Panipat TPS (2*210+2*250)	920	458	400	10.03	418
	DCRTPP (Yamuna nagar) (2*300)	600	277	227	5.74	239
	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	1176	734	22.33	930
	Thermal (Total)	4497	1911	1361	38.10	1588
	Total Hydro	62	4	2	0.20	8
	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	1915	1363	38.30	1596
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1151	960	26.05	1085
	suratgarh TPS (6*250)	1500	651	768	15.88	662
	Chabra TPS (4*250)	1000	920	880	21.82	909
	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	139	129	3.19	133
	RAPS A (NPC) (1*100+1*200)	300	169	170	4.07	170
	Barsingar (NLC) (2*125)	250	225	221	5.24	218
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	570	837	17.60	733
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1142	946	25.83	1076
	Kawai(Adani) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	8876	4967	4911	119.68	4987
	Total Hydro	550	174	256	4.37	182
	Wind power	4017	327	10	6.27	261
	Biomass	99	6	6	0.16	6
	Solar	1295	5	0	0.27	11
	Renewable/Others (Total)	5411	338	16	6.69	279
	Total Rajasthan	14837	5479	5183	130.74	5447
UP	Anpara TPS (3*210+2*500)	1630	773	733	18.20	758
	Obra TPS (2*50+2*94+5*200)	1194	471	423	11.18	466
	Paricha TPS (2*110+2*220+2*250)	1160	923	582	18.39	766
	Panki TPS (2*105)	210	140	135	3.26	136
	Harduaganj TPS (1*60+1*105+2*250)	665	536	402	11.70	487
	Tanda TPS (NTPC) (4*110)	440	281	275	7.16	299
	Roza TPS (IPP) (4*300)	1200	1071	747	23.31	971
	Anpara-C (IPP) (2*600)	1200	1058	990	24.80	1033
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	360	58	5.54	231
	Anpara-D(2*500)	1000	431	444	10.38	432
	Lalitpur TPS(3*660)	1980	579	362	13.03	543
	Bara(2*660)	1320	591	585	14.11	588
	Thermal (Total)	12449	7214	5736	161.06	6711
	Vishnuparyag HPS (IPP)(4*110)	440	98	88	2.13	89
	Alakanada(4*82.5)	330	81	0	1.34	56
	Other Hydro	527	230	75	4.08	170
	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	8423	6699	187.81	7825	
Uttarakhand	Other Hydro	1250	608	292	9.81	409
	Total Gas	225	234	258	5.40	225
	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	842	550	15.25	636
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	72	72	1.96	82
	Pragati Gas Turbine (2x104+ 1x122)	330	158	156	3.80	158
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	247	280	6.00	250
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	477	509	11.76	490
	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	477	509	11.76	490
	HP	Baspa HPS (IPP) (3*100)	300	0	0	1.05
Malana HPS (IPP) (2*43)		86	0	0	0.27	11
Other Hydro		372	110	67	2.24	93
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	54	42	1.11	46
Renewable(Total)		486	54	42	1.11	46
Total HP		1244	164	108	4.66	194
J & K		Baqilhar HPS (IPP) (3*150+3*150)	900	143	122	3.01
	Other Hydro/IPP(including 98 MW Small Hydro)	308	80	22	1.01	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	223	144	4	167	

Total State Control Area Generation	50078	20137	16891	461.12	19213
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7351	7292	186.55	7773
Total Regional Availability(Gross)	75315	44530	31819	895.10	37296

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8289	678	60.60	2525
State Control Area Hydro	7163	2238	1614	40.54	1916
Total Regional Hydro	19397	10527	2293	101.14	4441

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.08	3
State Control Area Renewable	7356	392	58	8.19	341
Total Regional Renewable	7386	392	58	8.27	345

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	-200	500	250	2.03	2.03	0.00
765 KV Gwalior-Agra (D/C)	1415	1834	2639	0	42.27	0.00	42.27
400 KV Zerda-Kankroli	-84	-131	0	150	0.00	2.84	-2.84
400 KV Zerda-Bhimnal	39	-21	104	122	0.00	0.42	-0.42
220 KV Auraiya-Malanpur	-91	-107	0	102	0.00	2.05	-2.05
220 KV Badod-Kota/Morak	-56	-104	0	-158	0.00	-2.38	2.38
Mundra-Mohinderghar(HVDC Bipole)	2502	2203	2507	0.00	57.09	0.00	57.09
400 KV RAPPCC-Sujalpur	409	260	466	0	7.29	0.00	7.29
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1527	1343	1754	0	36.05	0.00	36.05
Sub Total WR	5961	5077			144.72	4.98	139.74
400 kV Sasaram - Varanasi	-38	15	21	38	0.00	0.52	-0.52
400 kV Sasaram - Allahabad	-131	-50	0	138	0.00	2.17	-2.17
400 KV MZP- GKP (D/C)	117	431	455	0	7.67	0.00	7.67
400 KV Patna-Balia(D/C) X 2	618	765	873	0	17.69	0.00	17.69
400 KV B'Sharif-Balia (D/C)	130	226	299	0	5.39	0.00	5.39
765 KV Gaya-Balia	201	238	282	0	5.66	0.00	5.66
765 KV Gaya-Varanasi (D/C)	-505	-474	777	0	13.99	0.00	13.99
220 KV Pusaali-Sahupuri	0	77	95	0	0.30	0.00	0.30
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-40	-33	0	40	0.00	0.84	-0.84
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	157	176	303	0	4.80	0.00	4.80
400 KV Barh -GKP (D/C)	482	512	602	0	11.75	0.00	11.75
400 kV B'Sharif - Varanasi (D/C)	-101	-168	285	0	-4.44	0.00	-4.44
Sub Total ER	890	1715			62.80	4.04	58.76
+/- 800 KV BiswanathCharialli-Agra	500	500	0	500.00	0.00	11.95	-11.95
Sub Total NER	500	500			0.00	11.95	-11.95
Total IR Exch	7351	7292			207.51	20.96	186.55

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
48.82	0.94	49.76	1.05	-4.69	12.48	1.96	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
63.29	127.98	191.27	46.81	139.74	186.55	-16.48	11.76	-4.72

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	13	12	0	-14	0	-1	0.69

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	0.01	3.37	42.81	68.59	20.57	7.11	0.45	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)		
50.24	21.57	49.80	15.14	50.01	0.042	50.13	49.94	31.41	

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	401	10:48	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	1:56	402	17:54	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	3:02	401	11:49	0.0	0.0	0.2	0.0	0.2
Kanpur	400	416	0:57	402	11:43	0.0	0.0	0.0	0.0	0.0
Dadri	400	426	3:59	402	11:43	0.0	0.0	20.7	0.0	20.7
Ballabgarh	400	430	4:01	404	11:52	0.0	0.0	34.7	0.0	34.7
Bawana	400	409	0:00	409	0:00	0.0	0.0	0.0	0.0	0.0
Bassi	400	423	4:01	395	11:48	0.0	0.0	5.0	0.0	5.0
Hissar	400	422	4:01	393	12:17	0.0	0.0	0.3	0.0	0.3
Moga	400	423	4:02	396	11:44	0.0	0.0	3.5	0.0	3.5
Abdullapur	400	426	0:31	402	11:44	0.0	0.0	20.8	0.0	20.8
Nalagarh	400	431	1:06	404	11:47	0.0	0.0	44.2	7.8	44.2
Kishenpur	400	425	4:35	392	12:15	0.0	0.0	0.5	0.0	0.5
Wagoora	400	406	4:35	363	11:47	34.6	90.7	0.0	0.0	34.6
Amritsar	400	432	4:12	400	11:46	0.0	0.0	30.0	0.1	30.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	423	4:35	396	11:50	0.0	0.0	0.3	0.0	0.3
Rishikesh	400	422	4:00	379	13:37	0.0	0.0	2.8	0.0	2.9

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	770	20:23	742	6:55	0.0	0.0	0.0	0.0	0.0
Balia	765	789	4:00	763	17:56	0.0	0.0	0.0	0.0	0.0
Moga	765	801	4:02	751	11:49	0.0	0.0	0.0	0.0	0.0

Agra	765	787	4:01	747	9:43	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	4:00	764	11:42	0.0	0.0	15.8	0.0	15.8
Unnao	765	772	21:41	747	7:36	0.0	0.0	0.0	0.0	0.0
Lucknow	765	800	4:00	772	12:17	0.0	0.0	0.0	0.0	0.0
Meerut	765	805	20:27	758	10:40	0.0	0.0	2.0	0.0	2.0
Jhatikara	765	805	4:02	758	19:20	42.6	42.6	3.1	0.0	45.7
Bareilly 765 kV	765	794	4:00	762	15:27	0.0	0.0	0.0	0.0	0.0
Anta	765	797	4:01	765	11:46	0.0	0.0	0.0	0.0	0.0
Phagi	765	803	4:02	763	11:42	0.0	0.0	0.4	0.0	0.4

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	489.82	729.18	502.26	1192.70	132.15	406.43
Pong	426.72	384.05	408.98	464.36	412.19	566.84	46.16	298.83
Tehri	829.79	740.04	815.05	823.28	805.30	710.40	39.87	187.00
Koteshwar	612.50	598.50	611.11	5.20	610.80	4.95	187.00	192.01
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	41.97	42.85
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	505.82	2.90	500.10	3.88	39.88	126.94

* 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	-625	2	0	-708	-103	0	-18.36	-0.94	-19.30
Delhi	-200	-271	0	-290	-192	0	-6.14	-2.93	-9.07
Haryana	-974	341	0	-662	259	0	-18.54	5.52	-13.01
HP	492	96	0	401	-122	0	12.76	-1.38	11.38
J&K	608	213	0	603	239	0	14.98	4.43	19.41
CHD	0	0	0	0	0	0	0.00	-0.06	-0.06
Rajasthan	182	537	0	140	209	0	8.21	10.57	18.78
UP	120	0	0	-95	-100	0	-7.35	-1.67	-9.02
Uttarakhand	272	-53	0	218	92	0	5.83	1.45	7.28
Total	-125	865	0	-394	281	0	-8.60	14.98	6.38

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-605	-997	48	-672	0	0
Delhi	-156	-381	251	-418	0	0
Haryana	-662	-1000	345	-418	0	0
HP	659	377	96	-603	0	0
J&K	694	590	333	-180	0	0
CHD	0	0	0	-41	0	0
Rajasthan	629	81	880	199	0	0
UP	161	-872	0	-100	0	0
Uttarakhand	281	139	288	-91	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	3.82%
ER	0.00%
Simultaneous	2.08%

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

WR	24.65%
ER	0.00%
Simultaneous	53.82%

(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	15
Haryana	1	15
Rajasthan	3	21
Delhi	4	29
UP	1	15
Uttarakhand	2	29
HP	1	20
J & K	3	25
Chandigarh	3	29

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 24.12.2016 :

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 : 24.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER