

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसईए की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 21.01.2016

Date of Reporting : 22.01.2016

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
41160	2000	43160	50.03	30312	315	30627	50.13	857.2	48.14

* 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	58.35	6.33		64.68	37.82	37.77	-0.05	102.45	0.00
Haryana	61.09	0.27		61.36	65.35	63.07	-2.28	124.43	0.00
Rajasthan	143.22	4.96	4.04	152.21	61.48	63.95	2.47	216.16	1.10
Delhi	13.88			13.88	54.15	53.17	-0.98	67.05	0.05
UP	144.97	4.40		149.37	84.88	84.66	-0.22	234.02	35.95
Uttarakhand		10.28		10.28	25.93	26.94	1.02	37.22	0.59
HP		3.60		3.60	20.87	23.59	2.73	27.19	0.00
J & K		5.44	0.00	5.44	37.85	39.00	1.14	44.43	10.45
Chandigarh				0.00	3.59	4.20	0.27	4.20	0.00
Total	421.50	35.27	4.04	460.81	391.90	396.35	4.10	857.15	48.14

* Shortage furnished by the respective constituent. \$ Others include UP Co-generation and J&K Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	5121	0	-74	-1315	3214	0	69	-455	5213
Haryana	6739	0	-128	-578	3618	0	310	-875	6739
Rajasthan	9851	0	-41	175	8462	0	1	406	9851
Delhi	3308	0	-109	-482	1571	0	-34	-1338	3893
UP	10705	1420	35	7	9508	0	-195	125	10705
Uttarakhand	1862	75	-4	661	1224	0	10	388	1932
HP	1331	0	-241	107	832	0	92	378	1449
J&K	2020	505	88	855	1788	315	40	756	2020
Chandigarh	223	0	6	10	95	0	9	-21	235
Total	41160	2000	-469	-559	30312	315	302	-637	41160

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

Diversity is 1.02

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	
										UI [OG:(+ve), UG:(-ve)]
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1850	1937	1916	43.79	1825	43.93	-0.14	
	Rihand I STPS (2*500)	1000	863	904	913	18.97	790	19.41	-0.44	
	Rihand II STPS (2*500)	1000	956	961	470	21.52	896	21.81	-0.29	
	Rihand III STPS (2*500)	1000	974	960	764	21.88	911	22.45	-0.58	
	Dadri I STPS (4*210)	840	815	565	549	14.31	596	14.61	-0.30	
	Dadri II STPS (2*490)	980	980	878	661	18.93	789	19.58	-0.65	
	Unchahar I TPS (2*210)	420	406	354	298	7.97	332	8.44	-0.47	
	Unchahar II TPS (2*210)	420	404	350	295	7.81	325	8.22	-0.41	
	Unchahar III TPS (1*220)	210	202	177	139	3.95	165	4.17	-0.22	
	ISTPP (Jhajjhar) (3*500)	1500	1475	1050	935	21.49	896	21.76	-0.26	
	Dadri GPS (4*130.19+2*154.51)	830	811	226	237	5.47	228	5.61	-0.14	
	Anta GPS (3*88.71+1*153.2)	419	415	-2	187	2.01	84	1.90	0.11	
	Auraiya GPS (4*111.19+2*109.30)	663	655	146	149	3.42	143	3.46	-0.04	
	Dadri Solar	5	0	0	0	0.01	1	0.01	0.00	
	Unchahar Solar	10	0	0	0	0.00	0	0.01	0.00	
	Singrauli Solar	15	1	0	0	0.06	3	0.03	0.04	
	KHEP	800	655	655	0	0.00	0	1.97	-1.97	
	Sub Total (A)	12112	11461	9171	7512	192	7983	197	-6	
	B. NPC	NAPS (2*220)	440	412	449	454	9.93	414	9.89	0.04
		RAPS-B (2*220)	440	405	447	449	9.73	406	9.72	0.01
RAPS-C (2*220)		440	420	458	460	9.96	415	10.08	-0.12	
Sub Total (B)		1320	1237	1354	1363	29.62	1234	29.69	-0.07	
C. NHPC	Chamera I HPS (3*180)	540	360	367	0	1.29	54	1.10	0.19	
	Chamera II HPS (3*100)	300	200	202	0	1.01	42	0.90	0.11	
	Chamera III HPS (3*77)	231	167	155	0	0.55	23	0.51	0.04	
	Bairasul HPS(3*60)	180	124	126	0	0.42	18	0.38	0.04	
	Salal-HPS (6*115)	690	106	230	90	2.86	119	2.53	0.33	
	Tanakpur-HPS (3*40)	94	17	13	14	0.47	20	0.40	0.06	
	Uri-I HPS (4*120)	480	165	234	123	4.02	167	3.99	0.03	
	Uri-II HPS (4*80)	240	101	92	126	2.50	104	2.42	0.08	
	Dhauliganga-HPS (4*70)	280	140	140	0	8.47	353	0.77	7.70	
	Dulhasti-HPS (3*130)	390	258	271	0	3.16	132	3.00	0.16	
	Sewa-II HPS (3*40)	120	119	122	0	0.33	14	0.33	0.00	
	Parbati 3 (4*130)	520	0	0	0	0.81	34	0.00	0.81	
	Sub Total (C)	4065	1756	1952	353	26	1078	16	10	
D.SJVNL	NJPC (6*250)	1500	1350	1291	0	6.32	263	6.20	0.12	
	Rampur HEP (6*68.67)	412	344	375	0	1.79	75	1.69	0.10	
	Sub Total (D)	1912	1694	1666	0	8.11	338	7.89	0.22	
E. THDC	Tehri HPS (4*250)	1000	884	886	0	7.93	330	7.70	0.23	
	Koteshwar HPS (4*100)	400	128	401	91	3.14	131	3.08	0.06	
	Sub Total (E)	1400	1012	1287	91	11.07	461	10.78	0.29	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	564	1002	359	13.61	567	13.53	0.08	
	Dehara HPS (6*165)	990	122	495	0	2.88	120	2.92	-0.04	
	Pong HPS (6*66)	396	273	384	60	6.38	266	6.56	-0.18	
	Sub Total (F)	2765	959	1881	419	22.88	953	23.01	-0.14	
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.42	17	0.40	0.02	
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	565	0	3.28	136	3.24	0.04	
	Malana Slg-II HPS (2*50)	100	0	0	0	0.18	8	0.17	0.01	
	Shree Cement TPS (2*150)	300	0	300	299	7.10	296	7.16	-0.07	
	Budhil HPS(IPP) (2*35)	70	0	35	0	0.14	6	0.14	0.00	
	Sub Total (G)	1662	0	900	299	11.11	463	11.12	0.00	
H. Total Regional Entities (A-G)	25237	18119	18210	10037	300.26	12511	296.17	4.09		

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	385	320	8.15	340
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	100	100	2.38	99
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	554	381	10.10	421
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	1375	713	26.26	1094
	Talwandi Saboo (2*660)	1320	662	332	11.46	477
	Thermal (Total)	5360	3076	1846	58.35	2431
	Total Hydro	1000	253	250	6.33	264
	Total Punjab	6360	3329	2096	64.68	2695
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	240	224	5.40
DCRTPP (Yamuna nagar) (2*300)		600	561	461	12.05	502
Faridabad GPS (NTPC)		432	0	0	0.00	0
RGTPP (khedan) (IPP) (2*600)		1200	1015	792	21.44	893
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	1113	743	22.20	925
Thermal (Total)		4944	2929	2220	61.09	2546
Total Hydro		62	10	6	0.27	11
Total Haryana		5006	2939	2226	61.36	2557
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1137	1063	26.38
	suratgarh TPS (6*250)	1500	1065	992	25.25	1052
	Chabra TPS (4*250)	1000	447	438	9.94	414
	Dholpur GPS (3*110)	330	90	148109	2.94	122
	Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	194	148	4.72	197
	RAPS A (NPC) (1*100+1*200)	300	0	160	1.58	66
	Barsingsar (NLC) (2*125)	250	91	91	2.06	86
	Giral LTPS (2*125)	250	0	0	0.00	0
	Raivert LTPS (IPP) (8*135)	1080	848	848	20.41	851
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalsindh Thermal(2*600)	1200	1087	878	23.85	994
	Kawal(Adani) (2*660)	1320	1201	865	26.08	1087
	Thermal (Total)	8876	6160	153592	143	5967
	Total Hydro	550	196	279	4.96	206
	Wind power	3214	8	13	2.80	117
	Biomass	99	27	27	0.64	27
	Solar	730	11	0	0.60	25
	Renewable/Others (Total)	4043	46	40	4.04	168
	Total Rajasthan	13469	6402	153911	152.21	6342
	UP	Anpara TPS (3*210+2*500)	1630	1362	1394	32.30
Obra TPS (2*50+2*94+5*200)		1194	446	443	10.40	433
Paricha TPS (2*110+2*220+2*250)		1140	761	824	20.50	854
Panki TPS (2*105)		210	0	0	0.00	0
Harduaqani TPS (1*60+1*105+2*250)		665	529	525	12.20	508
Tanda TPS (NTPC) (4*110)		440	281	277	7.57	315
Rozas TPS (IPP) (4*300)		1200	378	383	11.30	471
Anpara-C (IPP) (2*600)		1200	1045	995	22.40	933
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0
Anpara-D(1*500)		500	0	0	0.00	0
Lalitpur TPS(2*660)		1320	0	0	0.00	0
Bara(2*660)		1320	336	326	9.10	379
Thermal (Total)		11269	5138	5167	126	5240
Vishnupanyag HPS (IPP)(4*110)		440	70	68	1.60	67
Alaknanda(4*82.5)		330	70	0	1.00	42
Other Hydro		527	130	22	1.80	75
Cogeneration		981	800	800	19.20	800
Total UP		13547	6208	6057	149	6224
Uttarakhand		Total Hydro	1398	657	369	10.28
	Total Uttarakhand	1398	657	369	10.28	428
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	37	37	0.92	38
	Pragati Gas Turbine (2x104+ 1x122)	330	139	140	3.38	141
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	253	252	6.03	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	168	168	3.56	148
	Thermal (Total)	2917	597	597	13.88	578
Total Delhi	2917	597	597	13.88	578	
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.12	47
	Malana HPS (IPP) (2*43)	86	0	0	0.19	8
	Other Hydro	878	121	62	2.30	96
Total HP	1264	121	62	3.60	150	
J & K	Baqilhar HPS (IPP) (3*150)	450	150	150	3.60	150
	Other Hydro/IPP	560	94	66	1.84	77
	Gas/Diesel/Others	190	0	0	0.00	0
Total J & K	1200	244	216	5.44	227	
Total State Control Area Generation		45161	20497	165534	460.81	19200
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6079.21	3776.32	122.45	5102
Total Regional Availability(Gross)		70398	44787	179348	883.52	36813

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8005	863	71.81	2992
State Control Area Hydro	6581	1751	1272	35	1469
Total Regional Hydro	18815	9756	2135	107.08	4462

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)		Off Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	Import	Export	
	Vindhyachal(HVDC B/B)	350	-200	500	200	3.24	1.99	1.25	
765 KV Gwalior-Agra (D/C)	1565	1894	2272	0	43.04	0.00	43.04		
400 KV Zorda-Kankrolli	-62	-180	0	222	0.00	3.41	-3.41		
400 KV Zorda-Bhimnal	74	-61	110	140	0.00	0.42	-0.42		
220 KV Auraiya-Malapur	-73	-43	0	96	0.00	1.43	-1.43		
220 KV Badod-Kota/Morak	-54	-122	0	91	0.00	1.37	-1.37		
Mundra-Mohindergarh(HVDC Bipole)	2502	1401	2505	0	51.51	0.00	51.51		
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Phagi-Gwalior (D/C)	797	666	473	0	17.59	0.00	17.59		
Sub Total WR	5089	3355			115.38	8.63	106.75		
Pusauli Bypass/HVDC	200	200	200	0	4.89	0.00	4.89		
400 KV MZP- GKP (D/C)	840	326	0	912	0.00	10.92	-10.92		
400 KV Patna-Balia(D/C) X 2	-229	-276	346	0	5.62	0.00	5.62		
400 KV B Sharif-Balia (D/C)	364	183	0	519	0.00	6.44	-6.44		
765 KV Gaya-Balia	-191	-70	214	24	0.92	0.00	0.92		
765 KV Gaya-Fatehpur	81	18	300	0	2.87	0.00	2.87		
220 KV Pusauli-Sahupuri	166	159	166	0	3.06	0.00	3.06		
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
132 KV Son Ngr-Rihand	-20	-24	0	29	0.00	0.56	-0.56		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-297	-179	0	297	0.00	3.56	-3.56		
400 KV Barh-GKP (D/C)	-424	-416	496	0	10.12	0.00	10.12		
Sub Total ER	490	-79			27.47	21.48	5.99		
+/- 800 KV BiswanathChariali-Agra	500	500	500	500	9.71	0.00	9.71		
Sub Total NER	500	500			9.71	0.00	9.71		
Total IR Exch	6079	3776			152.56	30.10	122.45		

V(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	
30.35	0.11	30.46	-5.34	-13.17	0.00	0.00	4.93	-4.93	
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	
30.06	92.76	122.82	15.70	106.75	122.45	-14.35	13.99	-0.36	

V(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)		Off Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	Import	Export	
	132 KV Tanakpur - Mahendarnagar	-31	-33	0	33	0	1	-0.72	

VI. 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	2.89	33.97	64.32	23.76	8.81	1.05	NA

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum	Time	Minimum	Time				MAX (Hz)	MIN (Hz)	
50.27	5.04	49.82	9.20	50.02	0.047	0.065	50.24	50.02	35.68

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of Time)
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
		Rihand	400	407	05:07	397	14:51	0.0	0.0	
Gorakhpur	400	420	05:04	396	17:37	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	424	05:04	400	12:39	0.0	0.0	1.3	0.0	1.3
Kanpur	400	411	05:00	402	09:50	0.0	0.0	3.4	0.0	3.4
Dadri	400	427	02:59	404	11:11	0.1	0.1	20.0	0.0	20.0
Ballabgarh	400	434	05:02	407	10:37	0.0	0.0	39.5	10.8	39.5
Bawana	400	429	02:56	407	11:07	0.0	0.0	30.7	0.0	30.7
Bassi	400	426	05:01	394	16:22	0.0	0.0	6.4	0.0	6.4
Hissar	400	421	03:01	399	11:07	0.0	0.0	0.0	0.0	0.0
Moga	400	423	02:59	404	11:09	0.0	0.0	14.5	0.0	14.5
Abdullapur	400	424	03:02	396	11:54	0.0	0.0	13.6	0.0	13.6
Nalagarh	400	435	02:59	411	10:21	0.0	0.0	52.3	16.4	52.3
Kishenpur	400	427	21:19	397	11:05	0.0	0.0	7.9	0.0	7.9
Wagooora	400	413	20:05	368	18:23	39.6	77.8	0.0	0.0	39.6
Amritsar	400	430	03:01	411	11:09	0.0	0.0	41.0	0.0	41.0
Kashipur	400	423	05:00	412	09:20	0.0	0.0	14.3	0.0	14.3
Hamirpur	400	424	03:42	409	12:53	0.0	0.0	21.9	0.0	21.9
Rishikesh	400	426	05:03	394	09:50	0.0	0.0	14.6	0.0	14.6

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of Time)
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
		Fatehpur	765	779	21:46	735	16:22	0.0	3.0	
Balia	765	764	21:55	738	16:22	0.0	13.9	0.0	0.0	0.0
Moga	765	805	21:47	764	11:07	0.0	0.0	2.4	0.0	2.4
Agra	765	797	05:03	750	16:22	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	805	02:57	766	10:21	0.0	0.0	13.8	0.0	13.8
Unnao	765	772	05:03	750	00:07	0.0	0.0	0.0	0.0	0.0
Lucknow	765	790	05:03	751	12:40	0.0	0.0	0.0	0.0	0.0
Meerut	765	813	05:02	769	11:38	0.0	0.0	25.0	0.0	25.0
Jhatkara	765	815	03:00	768	10:20	0.0	0.0	22.3	0.0	22.3
Bareilly 765 kV	765	795	05:03	753	12:39	0.0	0.0	0.0	0.0	0.0
Anta	765	781	02:24	756	09:47	0.0	0.0	0.0	0.0	0.0
Phagi	765	793	04:03	748	16:21	0.0	0.0	0.0	0.0	0.0

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	497.39	994.96	493.89	858.11	157.21	417.36
Pong	426.72	384.05	407.46	416.46	402.62	281.22	56.49	436.59
Tehri	829.79	740.04	792.90	498.30	801.95	646.42	73.30	214.00
Koteshwar	612.50	598.50	611.17	5.21	609.21	4.21	214.00	206.46
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	42.43	34.51
Rihand	268.22	252.98	848.20	227.10	850.00	255.50	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	496.06	0.39	503.03	1.92	41.11	33.39

* 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	-459	3	0	-912	-403	0	-16.16	-1.54	-17.70
Delhi	-842	-493	-2	-545	65	-2	-13.91	-3.04	-16.95
Haryana	-693	-183	0	-749	171	0	-19.64	0.91	-18.73
HP	101	276	0	163	-56	0	7.87	0.32	8.19
J&K	721	35	0	783	72	0	16.73	0.23	16.96
CHD	-31	10	0	0	10	0	-0.24	0.20	-0.04
Rajasthan	-7	411	2	-7	180	2	3.00	4.31	7.30
UP	125	0	0	7	0	0	-5.36	0.00	-5.36
Uttarakhand	384	3	0	384	277	0	10.49	2.62	13.11
Total	-700	64	0	-874	315	0	-17.22	4.01	-13.22

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-459	-912	72	-568	0	0
Delhi	-282	-872	242	-503	-2	-2
Haryana	-693	-1055	223	-388	0	0
HP	488	101	300	-563	0	0
J&K	783	571	96	-102	0	0
CHD	0	-31	59	0	0	0
Rajasthan	425	-7	599	-742	2	2
UP	166	-630	0	0	0	0
Uttarakhand	519	384	277	0	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	64.24%
ER	0.00%
Simultaneous	20.14%

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

WR	79.17%
ER	0.00%
Simultaneous	56.25%

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 21.01.2016 :

Normal

XV. Synchronisation of new generating units :

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

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :