

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसईसी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 20.01.2016
Date of Reporting : 21.01.2016

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
40562	2213	42775	50.03	29341	555	29896	50.13	847.3	44.01

* 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	67.88	6.47		74.35	32.46	33.34	0.88	107.70	0.00
Haryana	61.12	0.31		61.44	61.96	61.65	-0.31	123.08	0.00
Rajasthan	154.08	4.22	3.91	162.20	60.26	62.16	1.90	224.36	3.64
Delhi	13.86			13.86	53.41	53.65	0.25	67.51	0.04
UP	121.36	3.90		125.26	79.93	80.42	0.49	205.68	27.94
Uttarakhand		9.74		9.74	25.95	26.80	0.85	36.54	0.30
HP		3.53		3.53	21.69	23.74	2.05	27.27	0.10
J & K		5.44	0.00	5.44	37.68	45.58	7.91	51.02	12.00
Chandigarh				0.00	3.69	4.16	0.27	4.16	0.00
Total	418.31	33.61	3.91	455.82	377.04	391.50	14.27	847.33	44.01

* Shortage furnished by the respective constituent. \$ 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				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	4953	0	-46	-1282	3109	0	86	-457	5525
Haryana	6753	0	-42	-577	3620	0	106	-877	6753
Rajasthan	9972	0	-112	175	8523	0	131	550	9972
Delhi	3312	0	-39	-497	1548	0	-58	-1492	3921
UP	10015	1585	-271	33	8279	180	142	125	10295
Uttarakhand	1791	75	-169	652	1210	0	49	388	1919
HP	1333	0	61	96	826	0	141	353	1480
J&K	2213	553	305	831	2128	375	422	707	2430
Chandigarh	219	0	-1	0	98	0	5	-31	235
Total	40562	2213	-313	-570	29341	555	1024	-733	40562

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

Diversity is 1.05

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	1872	2045	1536	42.29	1762	41.77	0.52
	Rihand I STPS (2*500)	1000	674	854	315	15.09	629	14.89	0.20
	Rihand II STPS (2*500)	1000	956	1033	633	20.29	845	20.34	-0.06
	Rihand III STPS (2*500)	1000	974	1036	631	20.48	853	21.13	-0.65
	Dadri I STPS (4*210)	840	815	747	620	15.19	633	15.50	-0.31
	Dadri II STPS (2*490)	980	980	920	689	19.36	807	19.97	-0.61
	Unchahar I TPS (2*210)	420	406	316	279	7.59	316	7.94	-0.36
	Unchahar II TPS (2*210)	420	404	297	289	7.55	315	7.79	-0.24
	Unchahar III TPS (1*220)	210	202	156	144	3.78	157	3.91	-0.13
	ISTPP (Jhajjar) (3*500)	1500	1450	1097	940	21.67	903	22.09	-0.42
	Dadri GPS (4*130.19+2*154.51)	830	813	239	245	5.57	232	5.69	-0.13
	Anta GPS (3*88.71+1*153.2)	419	415	192	189	4.43	185	4.48	-0.05
	Auraiya GPS (4*111.19+2*109.30)	663	654	148	129	3.31	138	3.42	-0.12
	Dadri Solar	5	0	0	0	0.01	0	0.01	0.00
	Unchahar Solar	10	0	0	0	0.01	0	0.01	0.00
	Singrauli Solar	15	1	0	0	0.02	1	0.02	0.00
	Sub Total (A)	12112	11487	9731	6639	189	7881	192	-2
B. NPC	NAPS (2*220)	440	411	450	454	9.95	414	9.86	0.08
	RAPS- B (2*220)	440	405	447	449	9.71	405	9.72	-0.01
	RAPS- C (2*220)	440	420	456	463	9.96	415	10.08	-0.12
	Sub Total (B)	1320	1236	1353	1366	29.62	1234	29.66	-0.04
C. NHPC	Chamera I HPS (3*180)	540	360	368	0	1.30	54	1.10	0.20
	Chamera II HPS (3*100)	300	238	163	0	1.24	52	1.09	0.15
	Chamera III HPS (3*77)	231	211	19	0	0.61	26	0.55	0.07
	Bairasul HPS(3*60)	180	124	125	0	0.47	20	0.45	0.02
	Salal-HPS (6*115)	690	105	230	115	2.87	120	2.53	0.34
	Tanakpur-HPS (3*40)	94	16	15	20	0.46	19	0.39	0.07
	Uri-I HPS (4*120)	480	172	226	118	4.33	180	4.13	0.20
	Uri-II HPS (4*80)	240	108	84	103	2.66	111	2.59	0.07
	Dhauliganga-HPS (4*70)	280	140	140	0	0.82	34	0.68	0.14
	Dulhasti-HPS (3*130)	390	258	269	0	3.13	130	2.90	0.23
	Sewa-II HPS (3*40)	120	119	121	0	0.32	13	0.33	-0.01
	Parbati 3 (4*130)	520	0	0	0	0.81	34	0.00	0.81
	Sub Total (C)	4065	1850	1760	356	19	792	17	2
D.SJVNL	NJPC (6*250)	1500	1350	1350	0	6.32	263	6.20	0.12
	Rampur HEP (6*68.67)	412	344	376	0	1.78	74	1.67	0.12
	Sub Total (D)	1912	1694	1726	0	8.10	338	7.87	0.24
E. THDC	Tehri HPS (4*250)	1000	888	886	0	8.02	334	7.70	0.32
	Koteshwar HPS (4*100)	400	128	276	89	3.11	130	3.08	0.03
	Sub Total (E)	1400	1016	1162	89	11.13	464	10.78	0.35
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	557	1007	364	13.64	568	13.36	0.28
	Dehar HPS (6*165)	990	120	495	0	2.98	124	2.88	0.10
	Pong HPS (6*66)	396	271	384	60	6.64	277	6.50	0.14
	Sub Total (F)	2765	948	1886	424	23.26	969	22.74	0.52
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	630	0	3.50	146	3.48	0.02
	Malana Slg-II HPS (2*50)	100	0	0	0	0.18	8	0.17	0.01
	Shree Cement TPS (2*150)	300	0	298	294	7.10	296	7.15	-0.04
	Budhil HPS(IPP) (2*35)	70	0	35	0	0.14	6	0.14	0.00
	Sub Total (G)	1662	0	963	294	11.34	473	11.34	0.00
H. Total Regional Entities (A-G)	25237	18231	18581	9169	291.60	12150	290.71	0.90	

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	420	320	8.20	342	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	100	2.35	98	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	463	449	9.73	405	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	1379	697	27.55	1148	
	Talwandi Saboo (2*660)	1320	666	681	20.05	836	
	Thermal (Total)	5360	3048	2247	67.88	2829	
	Total Hydro	1000	249	198	6.47	270	
	Total Punjab	6360	3297	2445	74.35	3098	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	233	222	5.42	226
DCRTPP (Yamuna nagar) (2*300)		600	562	460	12.57	524	
Faridabad GPS (NTPC)		432	0	0	0.00	0	
RGTPP (khedan) (IPP) (2*600)		1200	1016	810	21.84	910	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar (CLP) (2*660)		1320	1111	742	21.29	887	
Thermal (Total)		4944	2922	2234	61.12	2547	
Total Hydro		62	10	6	0.31	13	
Total Haryana		5006	2932	2240	61.44	2560	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1091	1030	26.57	1107
	suratgarh TPS (6*250)	1500	1145	938	25.61	1067	
	Chabra TPS (4*250)	1000	665	614	15.05	627	
	Dholpur GPS (3*110)	330	99	0	1.29	54	
	Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	84	151	2.44	102	
	RAPS A (NPC) (1*100+1*200)	300	170	166	4.06	169	
	Barsingsar (NLC) (2*125)	250	93	91	2.05	86	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Raiwate LTPS (IPP) (8*135)	1080	847	630	26.39	1100	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalsindh Thermal(2*600)	1200	1122	852	24.23	1009	
	Kawal(Adani) (2*660)	1320	1198	866	26.39	1100	
	Thermal (Total)	8876	6514	5338	154	6420	
	Total Hydro	550	181	146	4.22	176	
	Wind power	3214	40	442	2.92	122	
	Biomass	99	22	22	0.53	22	
	Solar	730	9	0	0.46	19	
	Renewable/Others (Total)	4043	71	464	3.91	163	
	Total Rajasthan	13469	6766	5948	162.20	6758	
	UP	Anpara TPS (3*210+2*500)	1630	1369	1315	30.70	1279
Obra TPS (2*50+2*94+5*200)		1194	463	440	10.70	446	
Paricha TPS (2*110+2*220+2*250)		1140	656	646	18.10	754	
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaqani TPS (1*60+1*105+2*250)		665	519	416	11.50	479	
Tanda TPS (NTPC) (4*110)		440	275	270	7.74	323	
Rozsa TPS (IPP) (4*300)		1200	378	383	10.70	446	
Anpara-C (IPP) (2*600)		1200	1083	627	21.70	904	
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	316	216	8.30	346	
Thermal (Total)		11269	5859	4313	119	4977	
Vishnupanyag HPS (IPP)(4*110)		440	70	69	1.70	71	
Alaknanda(4*82.5)		330	72	0	1.10	46	
Other Hydro		527	108	19	1.10	46	
Cogeneration		981	800	800	1.92	80	
Total UP		13547	6109	5201	125	5219	
Uttarakhand		Total Hydro	1398	654	334	9.74	406
		Total Uttarakhand	1398	654	334	9.74	406
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	37	37	0.91	38	
	Pragati Gas Turbine (2x104+ 1x122)	330	137	140	3.38	141	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	249	251	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	166	3.56	148	
	Thermal (Total)	2917	589	595	13.86	578	
	Total Delhi	2917	589	595	13.86	578	
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.06	44	
	Malana HPS (IPP) (2*43)	86	0	0	0.19	8	
	Other Hydro	878	103	49	2.28	95	
	Total HP	1264	103	49	3.53	147	
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	150	0.00	0	
	Total J & K	1200	244	366	5.44	227	
Total State Control Area Generation		45161	20694	17178	455.82	18993	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5031.79	3939.97	116.82	4868	
Total Regional Availability(Gross)		70398	44306	30286	864.25	36010	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	7815	869	68.12	2838
State Control Area Hydro	6581	1691	1037	34	1400
Total Regional Hydro	18815	9506	1906	101.73	4238

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	Export		
Vindhyachal(HVDC B/B)	500	50	500	0	4.16	0.03		4.13	
765 KV Gwalior-Agra (D/C)	1142	1603	2292	0	41.86	0.00		41.86	
400 KV Zerda-Kankrolli	-91	-147	0	255	0.00	3.53		-3.53	
400 KV Zerda-Bhimnal	42	-19	145	177	0.00	0.39		-0.39	
220 KV Auraiya-Malapur	-75	-44	0	86	0.00	1.18		-1.18	
220 KV Badod-Kota/Morak	-106	-36	0	90	0.00	1.46		-1.46	
Mundra-Mohindergarh(HVDC Bipole)	2503	1199	2505	0	49.14	0.00		49.14	
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00		0.00	
765 KV Phagi-Gwalior (D/C)	508	535	358	0	14.40	0.00		14.40	
Sub Total WR	4423	3141			109.56	6.59		102.97	
Pusaali Bypass/HVDC	200	-200	200	200	2.75	1.93		0.82	
400 KV MZP- GKP (D/C)	-484	-59	0	592	0.00	6.66		-6.66	
400 KV Patna-Balia(D/C) X 2	211	202	245	0	3.91	0.00		3.91	
400 KV B Sharif-Balia (D/C)	-273	29	50	359	0.00	3.17		-3.17	
765 KV Gaya-Balia	91	156	215	55	1.22	0.00		1.22	
765 KV Gaya-Fatehpur	75	170	224	0	3.60	0.00		3.60	
220 KV Pusaali-Sahupuri	120	79	150	0	2.63	0.00		2.63	
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00		0.00	
132 KV Son Ngr-Rihand	-25	-10	0	27	0.00	0.37		-0.37	
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00		0.00	
765 KV Sasaram - Fatehpur	-169	96	130	169	0.00	0.42		-0.42	
400 KV Barh -GKP (D/C)	363	336	380	0	7.59	0.00		7.59	
Sub Total ER	109	799			21.70	12.54		9.15	
+/- 800 KV BiswanathChariali-Agra	500	0	500	0	4.70	0.00		4.70	
Sub Total NER	500	0			4.70	0.00		4.70	
Total IR Exch	5032	3940			135.96	19.13		116.82	

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
29.48	0.12	29.60	-6.08	-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
28.44	84.06	112.50	13.85	102.97	116.82	-14.59	18.91	4.33

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
	MW	MW	Import	Export	Import	Export	Export		
132 KV Tanakpur - Mahendarnagar	-30	-28	0	33	0	1		-0.74	

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	0.16	10.47	47.63	57.84	18.19	11.45	2.09	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	21.59	49.79	18.37	50.01	0.077	0.087	50.29	49.92	42.16

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	411	02:22	396	19:57	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	04:01	401	15:43	0.0	0.0	4.9	0.0	4.9
Bareilly(PG)400kV	400	423	04:01	398	11:40	0.0	0.0	2.5	0.0	2.5
Kanpur	400	411	04:01	402	11:38	0.0	0.0	15.5	0.0	15.5
Dadri	400	427	02:19	403	11:38	0.0	0.0	22.5	0.0	22.5
Ballabgarh	400	425	21:35	407	11:11	0.0	0.0	11.0	0.0	11.0
Bawana	400	429	02:19	406	11:11	0.0	0.0	29.0	0.0	29.0
Bassi	400	423	21:42	395	11:40	0.0	0.0	2.4	0.0	2.4
Hissar	400	420	02:19	398	09:47	0.0	0.0	0.0	0.0	0.0
Moga	400	423	02:01	203	02:52	0.6	0.6	10.3	0.0	10.9
Abdullapur	400	426	02:19	406	11:36	0.0	0.0	27.5	0.0	27.5
Nalagarh	400	436	02:03	411	11:36	0.0	0.0	57.5	22.0	57.5
Kishenpur	400	423	02:02	398	18:12	0.0	0.0	7.8	0.0	7.8
Wagooora	400	399	13:01	368	18:12	60.4	79.6	0.0	0.0	60.4
Amritsar	400	430	02:03	408	09:47	0.0	0.0	33.9	0.0	33.9
Kashipur	400	422	02:22	411	11:37	0.0	0.0	10.7	0.0	10.7
Hamirpur	400	424	03:39	404	11:04	0.0	0.0	10.3	0.0	10.3
Rishikesh	400	420	02:22	392	09:19	0.0	0.0	0.0	0.0	0.0

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	772	04:01	738	15:43	0.0	6.7	0.0	0.0	0.0
Balia	765	774	04:03	756	06:44	0.0	0.0	0.0	0.0	0.0
Moga	765	801	20:24	768	11:07	0.0	0.0	0.1	0.0	0.1
Agra	765	796	02:24	753	11:40	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	805	02:04	768	09:44	0.0	0.0	12.2	0.0	12.2
Unnao	765	784	04:02	732	14:38	0.0	28.3	0.0	0.0	0.0
Lucknow	765	794	04:02	750	14:36	0.0	0.0	0.0	0.0	0.0
Meerut	765	812	04:01	771	11:38	0.0	0.0	28.1	0.0	28.1
Jhatkara	765	815	04:03	768	11:08	0.0	0.0	23.8	0.0	23.8
Bareilly 765 kV	765	796	04:02	751	11:36	0.0	0.0	0.0	0.0	0.0
Anta	765	779	01:54	755	09:53	0.0	0.0	0.0	0.0	0.0
Phagi	765	792	20:11	749	09:52	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	0.00	0.00	0.00	0.00	0.00	0.00
Pong	426.72	384.05	0.00	0.00	0.00	0.00	0.00	0.00
Tehri	829.79	740.04	793.35	498.30	802.35	646.42	63.34	217.00
Koteshwar	612.50	598.50	611.23	5.20	609.45	4.21	217.00	204.92
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	43.53	34.73
Rihand	268.22	252.98	848.20	227.10	850.10	257.10	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	496.03	0.68	503.16	3.34	32.88	44.33

* 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	1	0	-912	-371	0	-16.16	-2.44	-18.60
Delhi	-944	-545	-3	-545	51	-3	-14.67	-3.80	-18.47
Haryana	-693	-184	0	-749	172	0	-19.89	-0.64	-20.54
HP	101	252	0	163	-68	0	7.87	0.06	7.93
J&K	721	-14	0	759	72	0	16.51	-0.08	16.44
CHD	-31	0	0	0	0	0	-0.24	0.10	-0.14
Rajasthan	-7	555	2	-7	180	2	0.59	8.19	8.79
UP	125	0	0	33	0	0	-2.36	0.00	-2.36
Uttarakhand	384	3	0	384	268	0	10.61	2.68	13.29
Total	-802	69	0	-873	303	0	-17.75	4.08	-13.68

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-459	-912	72	-589	0	0
Delhi	-282	-974	179	-548	-3	-3
Haryana	-693	-1055	217	-494	0	0
HP	488	101	285	-597	0	0
J&K	777	571	96	-102	0	0
CHD	0	-31	44	-15	0	0
Rajasthan	185	-7	744	-137	2	2
UP	166	-346	0	0	0	0
Uttarakhand	557	384	268	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	56.60%
ER	0.00%
Simultaneous	0.00%

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

WR	76.04%
ER	0.00%
Simultaneous	26.39%

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 20.01.2016 :

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 :