

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सख्यक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 22.02.2016

Date of Reporting : 23.02.2016



I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
35406	1124	36531	50.09	27843	1286	29129	50.12	791.4	41.15

* 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	38.97	7.63		46.60	46.22	48.08	1.86	94.68	0.00
Haryana	36.97	0.40		37.37	67.95	68.12	0.17	105.49	0.00
Rajasthan	126.72	4.87	1.98	133.57	66.77	71.66	4.89	205.24	0.38
Delhi	13.75			13.75	41.06	41.39	0.33	55.14	0.03
UP	121.97	2.82		124.80	102.93	104.12	1.20	228.92	31.00
Uttarakhand		10.19		10.19	19.73	23.24	3.51	33.43	0.00
HP		4.33		4.33	21.62	20.66	-0.95	25.00	0.24
J & K		6.12	0.00	6.12	34.91	34.07	-0.84	40.19	9.49
Chandigarh				0.00	3.16	3.30	0.27	3.30	0.00
Total	338.38	36.36	1.98	376.73	404.34	414.65	10.45	791.38	41.15

* 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	4284	0	15	-1120	2788	0	-71	28	4918
Haryana	5408	0	-223	-126	2700	0	167	-668	5720
Rajasthan	8259	0	-2	588	8168	0	45	601	9886
Delhi	2653	0	-174	-814	1369	0	-1	-1627	3153
UP	9971	680	-157	-190	9454	1035	178	109	10848
Uttarakhand	1729	0	179	433	1102	0	177	304	1801
HP	1148	0	-189	305	756	0	-10	281	1359
J&K	1778	444	-29	690	1421	251	-121	712	1996
Chandigarh	177	0	8	-20	85	0	1	-30	187
Total	35406	1124	-572	-253	27843	1286	366	-291	37893

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	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	1890	2003	1794	44.69	1862	44.57	0.12
	Rihand I STPS (2*500)	1000	859	915	679	18.17	757	18.27	-0.10
	Rihand II STPS (2*500)	1000	913	935	728	20.48	853	19.19	1.29
	Rihand III STPS (2*500)	1000	974	1026	680	21.50	896	21.02	0.47
	Dadri I STPS (4*210)	840	815	573	556	13.33	556	13.69	-0.36
	Dadri II STPS (2*490)	980	980	666	679	16.55	690	17.12	-0.57
	Unchahar I TPS (2*210)	420	406	365	299	8.08	337	8.28	-0.21
	Unchahar II TPS (2*210)	420	404	341	280	7.71	321	7.78	-0.07
	Unchahar III TPS (1*220)	210	202	166	162	3.87	161	4.02	-0.15
	ISTPP (Jhajhar) (3*500)	1500	950	631	618	14.05	585	14.36	-0.32
	Dadri GPs (4*130.19+2*154.51)	830	816	377	475	9.30	388	9.60	-0.30
	Anta GPs (3*88.71+1*153.2)	419	415	0	0	0.00	0	0.00	0.00
	Auraiya GPs (4*111.19+2*109.30)	663	493	320	277	6.80	283	7.03	-0.22
	Dadri Solar	5	1	0	0	0.03	1	0.03	0.00
	Unchahar Solar	10	1	0	0	0.04	2	0.03	0.01
	Singrauli Solar	15	2	0	0	0.07	3	0.05	0.02
	KHEP	800	435	336	0	2.51	105	2.30	0.21
Sub Total (A)	12112	10556	8654	7227	187	7799	187	0	
B. NPC	NAPS (2*220)	440	400	439	451	9.81	409	9.60	0.21
	RAPS- B (2*220)	440	381	426	432	9.24	385	9.14	0.09
	RAPS- C (2*220)	440	425	452	459	9.87	411	10.20	-0.33
	Sub Total (B)	1320	1206	1317	1342	28.92	1205	28.94	-0.03
C. NHPC	Chamera I HPS (3*180)	540	360	375	0	3.43	143	3.10	0.33
	Chamera II HPS (3*100)	300	200	206	0	1.38	58	1.28	0.10
	Chamera III HPS (3*77)	231	198	155	0	0.70	29	0.65	0.05
	Bairasuli HPS(3*60)	180	182	185	0	0.99	41	0.95	0.04
	Salal-HPS (6*115)	690	185	333	194	5.23	218	4.43	0.81
	Tanakpur-HPS (3*40)	94	17	31	14	0.48	20	0.40	0.09
	Uri-I HPS (4*120)	480	344	344	358	8.65	361	8.24	0.41
	Uri-II HPS (4*60)	240	175	177	178	4.22	176	4.20	0.02
	Dhauliganga-HPS (4*70)	280	280	280	0	0.79	33	0.70	0.09
	Dulhasi-HPS (3*130)	390	362	403	0	2.83	118	2.64	0.19
	Sewa-II HPS (3*40)	120	119	127	0	1.06	44	1.00	0.06
	Parbati 3 (4*130)	520	130	131	0	0.40	17	0.39	0.01
Sub Total (C)	4065	2553	2745	744	30	1256	28	2	
D.SJVNL	NJPC (6*250)	1500	1605	1532	0	6.36	265	6.26	0.10
	Rampur HEP (6*68.67)	412	442	442	0	1.74	72	1.74	-0.01
Sub Total (D)	1912	2047	1974	0	8.09	337	8.01	0.09	
E. THDC	Tehri HPS (4*250)	1000	760	768	0	7.61	317	7.50	0.11
	Koteshwar HPS (4*100)	400	130	403	92	3.18	132	3.13	0.05
Sub Total (E)	1400	890	1171	92	10.79	449	10.63	0.16	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	638	1181	386	15.25	635	15.31	-0.06
	Dehar HPS (6*165)	990	152	495	0	3.73	155	3.64	0.09
	Pong HPS (6*66)	396	205	295	60	4.78	199	4.92	-0.14
Sub Total (F)	2765	995	1971	446	23.76	990	23.87	-0.11	
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.42	18	0.41	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.38	141	3.60	-0.22
	Malana Stg-II HPS (2*50)	100	0	0	0	0.28	12	0.20	0.08
	Shree Cement TPS (2*150)	300	0	201	146	3.99	166	4.06	-0.07
	Budhi HPS(IPP) (2*35)	70	0	35	0	0.14	6	0.14	0.00
	Sub Total (G)	1662	0	866	146	8.21	342	8.40	-0.19
H. Total Regional Entities (A-G)	25237	18246	18698	9996	297.10	12379	295.17	1.93	

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	210	190	3.24	135
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.08	-3
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	1359	701	25.97	1082
	Talwandi Saboo (2*660)	1320	340	328	9.85	411
	Thermal (Total)	5360	1909	1219	38.97	1624
	Total Hydro	1000	413	254	7.63	318
	Total Punjab	6360	2322	1473	46.60	1942
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	215	221	5.21
DCRTPP (Yamuna nagar) (2*300)		600	505	453	11.31	471
Faridabad GPS (NTPC)		432	199	160	4.23	176
RGTPP (Khedar) (IPP) (2*600)		1200	380	0	6.53	272
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	366	367	9.68	403
Thermal (Total)		4944	1665	1201	36.97	1540
Total Hydro		62	10	15	0.40	17
Total Haryana		5006	1675	1216	37.37	1557
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	868	909	21.94
	suratgarh TPS (6*250)	1500	624	656	15.36	640
	Chabra TPS (4*250)	1000	667	418	14.42	601
	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	82	89	2.11	88
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	92	91	2.05	85
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	834	921	20.46	852
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	724	1042	22.61	942
	Kawai(Adani) (2*660)	1320	1168	1178	27.78	1157
	Thermal (Total)	8876	5059	5304	127	5280
	Total Hydro	550	220	204	4.87	203
	Wind power	3214	29	42	1.06	44
	Biomass	99	21	21	0.50	21
	Solar	730	8	0	0.43	18
	Renewable/Others (Total)	4043	58	63	1.98	83
	Total Rajasthan	13469	5337	5571	133.57	5566
	UP	Anpara TPS (3*210+2*500)	1630	1237	1238	29.77
Obra TPS (2*50+2*94+5*200)		1194	400	412	9.54	397
Paricha TPS (2*110+2*220+2*250)		1140	762	550	14.87	620
Panki TPS (2*105)		210	0	0	0.00	0
Harduaaganj TPS (1*60+1*105+2*250)		665	306	304	7.39	308
Tanda TPS (NTPC) (4*110)		440	376	378	9.04	376
Roza TPS (IPP) (4*300)		1200	806	824	19.35	806
Anpara-C (IPP) (2*600)		1200	536	540	12.82	534
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	0	0	0.00	0
Thermal (Total)		11269	4423	4246	103	4282
Vishnuparyag HPS (IPP)(4*110)		440	0	0	0.00	0
Alakanada(4*82.5)		330	0	0	0.00	0
Other Hydro		527	182	27	2.82	118
Cogeneration		981	800	800	19.20	800
Total UP	13547	5405	5073	125	5200	
Uttarakhand	Total Hydro	1398	584	301	10.19	424
	Total Uttarakhand	1398	584	301	10.19	424
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.05	-2
	Delhi Gas Turbine (6x30 + 3x34)	282	39	39	0.92	39
	Praagati Gas Turbine (2x104+ 1x122)	330	141	139	3.37	141
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	250	6.04	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	162	160	3.47	144
	Thermal (Total)	2917	594	588	13.75	573
	Total Delhi	2917	594	588	13.75	573
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.00	0
	Malana HPS (IPP) (2*43)	86	0	0	0.21	9
	Other Hydro	878	191	155	4.12	172
	Total HP	1264	191	155	4.33	181
J & K	Baglihar HPS (IPP) (3*150)	450	291	144	4.15	173
	Other Hydro/IPP	560	107	63	1.97	82
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1200	398	207	6.12	255
Total State Control Area Generation		45161	16506	14584	376.73	15697
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			5884.18	5173.96	133.17	5549
Total Regional Availability(Gross)		70398	41088	29754	806.99	33625

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8827	1281	79.39	3308
State Control Area Hydro	6581	1998	1163	36	1515
Total Regional Hydro	18815	10825	2444	115.75	4823

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	MW	MW	Import	Export	Import	Export	
	Vindhychal(HVDC B/B)	-300	-400	0	500	0.00	10.41	-10.41	
765 KV Gwalior-Agra (D/C)	2455	2072	2810	0	59.08	0.00	59.08		
400 KV Zerd-Kankroli	-11	-152	16	183	0.00	1.93	-1.93		
400 KV Zerd-Bhinmal	60	-75	145	126	0.37	0.00	0.37		
220 KV Auraiya-Malanpur	-100	-103	0	117	0.00	2.33	-2.33		
220 KV Badod-Kota/Morak	8	-21	21	30	0.04	0.00	0.04		
Mundra-Mohindergarh(HVDC Bipole)	1902	1902	1905	0	45.96	0.00	45.96		
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Phagi-Gwalior (D/C)	749	760	1019	0	20.29	0.00	20.29		
Sub Total WR	4763	3983			125.74	14.67	111.07		
Pusauli Bypass/HVDC	200	200	200	0	4.88	0.00	4.88		
400 KV MZP- GKP (D/C)	540	284	0	540	0.00	6.52	-6.52		
400 KV Patna-Balia(D/C) X 2	262	361	575	0	9.79	0.00	9.79		
400 KV B' Sharif-Balia (D/C)	-210	-95	0	-210	0.00	1.33	-1.33		
765 KV Gaya-Balia	77	105	219	0	1.71	0.00	1.71		
765 KV Gaya-Fatehpur	6	18	285	0	3.21	0.00	3.21		
220 KV Pusauli-Sahupuri	157	168	168	0	3.19	0.00	3.19		
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96		
132 KV Son Ngr-Rihand	-34	-32	0	44	0.00	0.72	-0.72		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-217	-178	112	217	0.00	1.65	-1.65		
400 KV Barh -GKP (D/C)	340	360	432	0	8.58	0.00	8.58		
Sub Total ER	1121	1191			32.32	10.21	22.10		
+/- 800 KV BiswanathCharialli-Agra	0	0	0	0	0.00	0.00	0.00		
Sub Total NER	0	0			0.00	0.00	0.00		
Total IR Exch	5884	5174			158.05	24.88	133.17		

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdli (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
32.10	0.15	32.25	3.36	-1.42	0.00	-0.42	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
35.19	98.97	134.17	22.10	111.07	133.17	-13.09	12.09	-1.00

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	MW	MW	Import	Export	Import	Export	
	132 KV Tanakpur - Mahendarnagar	-29	-31	0	32	0	1	-0.71	

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	0.93	7.27	47.40	72.33	16.91	3.96	0.14	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)				
50.23	18.03	49.72	12.37	50.00	0.045	0.067	50.16	49.94	27.67	

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	406	00:50	399	22:04	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	21:33	405	10:18	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	02:02	397	09:59	0.0	0.0	0.0	0.0	0.0
Kanpur	400	420	21:42	403	09:09	0.0	0.0	0.0	0.0	0.0
Dadrh	400	424	04:02	407	10:07	0.0	0.0	17.1	0.0	17.1
Ballabgarh	400	431	04:03	410	09:12	0.0	0.0	47.2	0.0	47.2
Bawana	400	428	21:26	409	09:21	0.0	0.0	60.8	0.0	60.8
Bassi	400	425	21:26	392	06:51	0.0	0.0	5.1	0.0	5.1
Hissar	400	424	21:32	398	09:18	0.0	0.0	3.3	0.0	3.3
Moga	400	423	21:14	403	09:16	0.0	0.0	9.6	0.0	9.6
Abdullapur	400	424	21:32	401	07:27	0.0	0.0	6.1	0.0	6.1
Nalagarh	400	434	16:04	409	09:34	0.0	0.0	66.3	6.4	66.3
Kishenpur	400	424	02:03	400	18:59	0.0	0.0	18.1	0.0	18.1
Wagoora	400	405	04:03	374	19:24	10.9	47.2	0.0	0.0	10.9
Amritsar	400	428	02:02	404	12:19	0.0	0.0	50.9	0.0	50.9
Kashipur	400	421	04:01	411	09:25	0.0	0.0	0.1	0.0	0.1
Hamirpur	400	424	18:03	402	10:06	0.0	0.0	32.5	0.0	32.5
Rishkesh	400	416	02:03	391	09:20	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	773	02:03	743	09:23	0.0	0.0	0.0	0.0	0.0
Balia	765	766	03:25	744	10:20	0.0	0.0	0.0	0.0	0.0
Moga	765	807	21:26	765	07:33	0.0	0.0	4.4	0.0	4.4
Agra	765	792	21:41	754	09:17	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	21:32	768	09:14	0.0	0.0	3.7	0.0	3.7
Unnao	765	770	04:01	743	09:20	0.0	0.0	0.0	0.0	0.0
Lucknow	765	785	04:02	759	09:22	0.0	0.0	0.0	0.0	0.0
Meerut	765	816	21:32	770	07:35	0.0	0.0	24.7	0.0	24.7
Jhatikara	765					0.0	0.0	20.8	0.0	20.8
Bareilly 765 kV	765	788	21:27	757	09:22	0.0	0.0	0.0	0.0	0.0
Anta	765	794	13:22	0	10:33	0.4	0.4	0.0	0.0	0.4
Phagi	765	790	18:02	749	09:18	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	489.65	719.44	484.15	560.76	168.68	487.30
Pong	426.72	384.05	400.09	223.85	399.28	203.01	34.72	343.26
Tehri	829.79	740.04	776.35	274.18	787.05	411.99	57.00	227.00
Koteshwar	612.50	598.50	611.27	5.12	610.33	4.69	227.00	209.00
Chamera-I	760.00	748.75	757.36	0.00	0.00	0.00	77.38	92.33
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	495.98	0.56	500.89	2.97	88.88	0.00

* 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	-96	124	0	-627	-493	0	-3.69	-2.04	-5.73
Delhi	-1039	-588	0	-678	-136	0	-17.96	-6.72	-24.68
Haryana	-326	-342	0	-347	221	0	-9.10	2.27	-6.83
HP	225	56	0	545	-240	0	11.10	-2.30	8.80
J&K	712	0	0	701	-11	0	15.32	-0.45	14.87
CHD	-30	0	0	0	-20	0	-0.24	-0.18	-0.43
Rajasthan	-7	608	0	-7	596	0	8.48	8.60	17.08
UP	109	0	0	-190	0	0	-7.07	0.00	-7.07
Uttarakhand	193	111	0	193	241	0	4.74	3.07	7.82
Total	-261	-31	0	-411	157	0	1.60	2.24	3.84

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-68	-627	129	-531	0	0
Delhi	-502	-1069	45	-603	0	0
Haryana	-326	-555	233	-546	0	0
HP	599	225	56	-704	0	0
J&K	712	577	49	-152	0	0
CHD	0	-30	0	-56	0	0
Rajasthan	843	-7	617	-154	0	0
UP	165	-614	0	0	0	0
Uttarakhand	221	193	274	1	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. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 22.02.2016 :

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 :