

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(सर्वरक्षित की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 25.03.2016

Date of Reporting : 26.03.2016



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
32474	1473	33947	49.99	27772	258	28030	50.04	757.0	29.16

* 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)	UI [OD:(+ve), UD: (-ve)] Shortages *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	23.60	8.08		31.68	55.76	55.76	0.00	87.44	0.00
Haryana	21.50	0.26		21.76	76.54	74.43	-2.11	96.19	0.00
Rajasthan	87.12	2.06	26.35	115.53	50.80	52.47	1.66	168.00	0.00
Delhi	4.26			4.26	51.83	52.96	1.13	57.22	0.21
UP	145.34	3.20		148.54	109.15	107.14	-2.02	255.68	18.78
Uttarakhand		8.99		8.99	16.17	17.88	1.71	26.87	0.05
HP		7.53		7.53	11.75	12.15	0.40	19.68	0.00
J & K		9.45	0.00	9.45	31.59	33.25	1.66	42.70	10.13
Chandigarh				0.00	3.25	3.21	0.27	3.21	0.00
Total	281.82	39.57	26.35	347.74	406.84	409.24	2.72	756.99	29.16

* 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	3799	0	-58	-407	2665	0	28	97	4169
Haryana	5227	0	-290	-34	2648	0	5	-76	5603
Rajasthan	6016	0	287	277	6763	0	213	251	7523
Delhi	2725	10	25	-111	1749	0	66	-602	2944
UP	10223	990	-264	720	11272	0	71	403	11530
Uttarakhand	1469	0	202	192	722	0	65	-113	1518
HP	948	0	20	-407	400	0	23	-119	1090
J&K	1892	473	99	360	1463	258	-133	397	2200
Chandigarh	175	0	3	-30	90	0	-1	0	175
Total	32474	1473	25	561	27772	258	337	238	35901

* 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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1861	1872	1875	43.23	1801	42.85	0.38
	Rihand I STPS (2*500)	1000	788	740	704	16.86	703	16.63	0.24
	Rihand II STPS (2*500)	1000	946	930	809	20.40	850	20.13	0.27
	Rihand III STPS (2*500)	1000	946	931	939	21.12	880	20.78	0.34
	Dadri I STPS (4*210)	840	815	295	294	6.86	286	7.01	-0.15
	Dadri II STPS (2*490)	980	980	401	432	9.75	406	10.14	-0.39
	Unchahar I TPS (2*210)	420	350	303	278	6.72	280	6.69	0.03
	Unchahar II TPS (2*210)	420	404	321	309	6.91	288	6.89	0.02
	Unchahar III TPS (1*210)	210	202	154	155	3.45	144	3.45	0.00
	ISTPP (Jhajjar) (3*500)	1500	950	469	301	7.25	302	7.41	-0.17
	Dadri GPS (4*130.19+2*154.51)	830	800	181	192	4.34	181	4.76	-0.42
	Anta GPS (3*88.71+1*153.2)	419	409	0	0	0.00	0	0.00	0.00
	Auraiya GPS (4*111.19+2*109.30)	663	653	0	0	0.00	0	0.00	0.00
	Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
	Unchahar Solar(10)	10	1	0	0	0.03	1	0.03	0.00
	Singrauli Solar(15)	15	3	0	0	0.07	3	0.07	0.00
	KHEP(4*200)	800	655	651	0	2.34	97	2.20	0.14
Sub Total (A)	12112	10762	7248	6288	149	6223	149	0	
B. NPC	NAPS (2*220)	440	400	429	441	9.58	399	9.60	-0.02
	RAPS- B (2*220)	440	380	415	423	9.02	376	9.12	-0.10
	RAPS- C (2*220)	440	418	442	445	9.63	401	10.03	-0.40
	Sub Total (B)	1320	1198	1286	1309	28.24	1177	28.75	-0.51
C. NHPC	Chamera I HPS (3*180)	540	534	542	0	4.54	189	4.26	0.28
	Chamera II HPS (3*100)	300	300	306	0	2.55	106	2.36	0.19
	Chamera III HPS (3*77)	231	235	231	0	1.43	59	1.38	0.04
	Bairasuli HPS(3*60)	180	172	183	0	0.26	11	2.67	-2.41
	Salal-HPS (6*115)	690	296	400	316	7.56	315	7.10	0.46
	Tanakpur-HPS (3*40)	94	17	16	14	0.42	17	0.39	0.02
	Uri-I HPS (4*120)	480	462	466	469	11.65	485	11.17	0.48
	Uri-II HPS (4*60)	240	224	226	226	5.39	224	5.37	0.02
	Dhauliganga-HPS (4*70)	280	210	218	0	0.75	31	0.63	0.13
	Dulhasi-HPS (3*130)	390	387	405	0	3.97	165	3.78	0.19
	Sewa-II HPS (3*40)	120	119	125	125	2.97	124	2.86	0.11
Parbati 3 (4*130)	520	138	262	0	0.62	26	0.58	0.04	
Sub Total (C)	4065	3093	3378	1151	42	1754	43	0	
D.SJVNL	NJPC (6*250)	1500	1350	1288	0	6.68	278	6.58	0.10
	Rampur HEP (6*68.67)	412	375	375	0	1.90	79	1.84	0.07
	Sub Total (D)	1912	1725	1663	0	8.58	358	8.41	0.17
E. THDC	Tehri HPS (4*250)	1000	628	622	0	5.84	243	5.70	0.14
	Koteswar HPS (4*100)	400	114	303	92	2.76	115	2.73	0.03
	Sub Total (E)	1400	742	925	92	8.60	358	8.43	0.17
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	465	951	374	11.05	461	11.16	-0.10
	Dehar HPS (6*165)	990	276	660	0	6.61	275	6.62	-0.01
	Pong HPS (6*66)	396	51	165	0	1.16	48	1.22	-0.06
	Sub Total (F)	2765	792	1776	374	18.83	784	19.00	-0.17
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.52	22	0.48	0.04
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	625	0	3.38	141	3.60	-0.22
	Malana Stg-II HPS (2*50)	100	0	0	0	0.28	12	0.27	0.01
	Shree Cement TPS (2*150)	300	0	296	297	6.87	286	6.94	-0.06
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.28	12	0.28	0.01
Sub Total (G)	1662	0	921	297	11.33	472	11.56	-0.23	
H. Total Regional Entities (A-G)	25237	18312	17198	9510	267.02	11126	267.78	-0.76	

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	162	3.43	143	
	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	2.48	103	
	Rajpura (2*700)	1400	580	330	9.93	414	
	Talwandi Saboo (2*660)	1320	308	308	7.86	327	
	Thermal (Total)	5360	1048	800	23.60	983	
	Total Hydro	1000	297	356	8.08	337	
	Total Punjab	6360	1345	1156	31.68	1320	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	544	459	11.44	477	
Faridabad GPS (NTPC)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	517	370	10.06	419	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(C.L.P.) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4944	1061	829	21.50	896	
Total Hydro		62	10	9	0.26	11	
Total Haryana		5006	1071	838	21.76	907	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	350	352	8.42	351
	suratgarh TPS (6*250)	1500	189	193	4.60	192	
	Chabra TPS (4*250)	1000	369	558	12.05	502	
	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	207	202	5.19	216	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	154	177	3.91	163	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwast LTPS (IPP) (8*135)	1080	461	457	11.79	491	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalsindh Thermal(2*600)	1200	811	815	19.56	815	
	Kawail(Adani) (2*660)	1320	859	864	21.62	901	
	Thermal (Total)	8876	3400	3618	87	3630	
	Total Hydro	550	89	57	2.06	86	
	Wind power	3214	449	749	23.33	972	
	Biomass	99	20	20	0.49	20	
	Solar	730	0	0	2.54	106	
	Renewable/Others (Total)	4043	469	769	26.35	1098	
	Total Rajasthan	13469	3958	4444	115.53	4814	
	UP	Anpara TPS (3*210+2*500)	1630	1066	1068	25.80	1075
Obra TPS (2*50+2*94+5*200)		1194	412	408	9.70	404	
Paricha TPS (2*110+2*220+2*250)		1140	909	923	22.00	917	
Panki TPS (2*105)		210	68	68	1.60	67	
Harduaganj TPS (1*60+1*105+2*250)		665	302	306	7.30	304	
Tanda TPS (NTPC) (4*110)		440	385	390	9.24	385	
Roza TPS (IPP) (4*300)		1200	567	765	17.30	721	
Anpara-C (IPP) (2*600)		1200	1080	1070	25.70	1071	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0	
Anpara-D(2*500)		500	315	291	7.40	308	
Lalitpur TPS(2*660)		1320	0	307	4.90	204	
Bara(2*660)		1320	0	0	0.00	0	
Thermal (Total)		11269	5104	5596	131	5456	
Vishnuparyag HPS (IPP)(4*110)		440	66	70	1.60	67	
Alakananda(4*82.5)		330	0	72	1.10	46	
Other Hydro		527	2	0	0.50	21	
Cogeneration		981	600	600	14.40	600	
Total UP		13547	5772	6338	149	6189	
Uttarakhand		Total Hydro	1398	489	233	8.99	375
		Total Uttarakhand	1398	489	233	8.99	375
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	35	37	0.91	38	
	Pragati Gas Turbine (2x104+ 1x122)	330	-1	-1	0.00	0	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-4	-4	-0.10	-4	
	Badarpur TPS (NTPC) (3*95+2*210)	705	161	161	3.48	145	
	Thermal (Total)	2917	191	193	4.26	178	
	Total Delhi	2917	191	193	4.26	178	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.93	39	
	Malana HPS (IPP) (2*43)	86	0	0	0.35	15	
	Other Hydro	878	272	196	6.25	260	
	Total HP	1264	272	196	7.53	314	
J & K	Baqilhar HPS (IPP) (3*150)	450	300	300	7.20	300	
	Other Hydro/IPP	560	117	82	2.25	94	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	417	382	9.45	394	
Total State Control Area Generation		45161	13515	13780	347.74	14489	
J. Net Inter Regional Exchange (Import +ve)Export (-ve)			6307.06	6439.16	155.47	6478	
Total Regional Availability(Gross)		70398	37020	29729	770.24	32094	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9018	1616	84.61	3526
State Control Area Hydro	6581	1642	1375	40	1649
Total Regional Hydro	18815	10660	2991	124.19	5174

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	
Vindhyachal(HVDC B/B)	250	-150	250	150	2.41	1.61	0.80
765 KV Gwalior-Agra (D/C)	1886	2442	3226	0	62.05	0.00	62.05
400 KV Zarda-Kankroli	-206	-224	0	251	0.00	4.36	-4.36
400 KV Zarda-Bhimmal	-177	-192	50	352	0.00	3.55	-3.55
220 KV Auraiya-Malanpur	-30	-14	0	33	0.00	0.17	-0.17
220 KV Badod-Kota/Morak	-43	-6	51	82	0.00	0.35	-0.35
Mundra-Mohinderghar(HVDC Bipole)	2498	2002	2505	0	57.04	0.00	57.04
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	530	837	837	0	15.91	0.00	15.91
Sub Total WR	4708	4695			137.41	10.04	127.37
Pusaali Bypass/HVDC	400	400	400	0	9.14	0.00	9.14
400 KV MZP- GKP (D/C)	604	250	0	604	0.00	8.23	-8.23
400 KV Patna-Balia(D/C) X 2	211	285	435	0	8.80	0.00	8.80
400 KV B Sharif-Balia (D/C)	-243	-58	0	243	0.00	2.82	-2.82
765 KV Gaya-Balia	91	135	254	0	2.17	0.00	2.17
765 KV Gaya-Varanasi -1	0	0	0	0	0.00	0.00	0.00
220 KV Pusaali-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Khasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-26	-26	0	30	0.00	0.60	-0.60
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-296	-196	0	296	0.00	3.31	-3.31
400 KV Barh -GKP (D/C)	372	468	508	0	10.43	0.00	10.43
Sub Total ER	1113	1258			31.50	14.97	16.53
+/- 800 KV BiswanathCharialli-Agra	486	486	486	0	11.57	0.00	11.57
Sub Total NER	486	486			11.57	0.00	11.57
Total IR Exch	6307	6439			180.48	25.00	155.47

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
28.55	0.19	28.74	1.19	-7.53	-0.88	12.37	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
29.05	130.23	159.28	28.10	127.37	155.47	-0.95	-2.86	-3.81

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	
132 KV Tanakpur - Mahendnagar	-28	-27	0	33	0	1	-0.68

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	0.07	8.58	50.88	68.62	18.75	4.03	0.15	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)			
50.22	18.02	49.78	9.38	50.00	0.044	50.18	49.94	31.38	

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	405	01:15	400	10:33	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	414	03:00	403	18:56	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	421	02:01	396	13:22	0.0	0.0	1.6	0.0	1.6
Kanpur	400	418	01:58	400	11:38	0.0	0.0	0.0	0.0	0.0
Dadri	400	428	03:01	399	11:38	0.0	0.0	23.4	0.0	23.4
Ballabgarh	400	432	02:45	401	11:38	0.0	0.0	33.8	3.0	33.8
Bawana	400	429	01:30	400	11:38	0.0	0.0	29.9	0.0	29.9
Bassi	400	424	18:00	398	11:40	0.0	0.0	9.7	0.0	9.7
Hissar	400	423	01:31	392	11:38	0.0	0.0	11.3	0.0	11.3
Moga	400	420	00:43	397	09:35	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	429	02:41	397	11:38	0.0	0.0	25.7	0.0	25.7
Nalagarh	400	437	01:33	398	11:40	0.0	0.0	43.1	6.5	43.1
Kishenpur	400	425	00:44	400	19:14	0.0	0.0	20.5	0.0	20.5
Wagoora	400	406	04:00	376	19:06	8.5	43.7	0.0	0.0	8.5
Amritsar	400	430	01:01	397	11:36	0.0	0.0	21.8	0.0	21.8
Kashipur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	00:00	401	09:05	0.0	0.0	32.8	0.0	32.8
Rishikesh	400	0	00:00	0	00:00	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	764	02:51	731	11:38	0.0	20.8	0.0	0.0	0.0
Balia	765	769	03:00	750	09:39	0.0	0.0	0.0	0.0	0.0
Moga	765	800	01:33	753	09:38	0.0	0.0	0.0	0.0	0.0
Agra	765	785	03:01	743	11:39	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	796	18:00	755	11:40	0.0	0.0	0.0	0.0	0.0
Unnao	765	786	18:01	737	11:54	0.0	4.1	0.0	0.0	0.0
Lucknow	765	785	03:00	757	09:40	0.0	0.0	0.0	0.0	0.0
Meerut	765	804	01:33	771	14:48	0.0	0.0	8.7	0.0	8.7
Jhatikara	765	808	01:30	783	07:35	0.0	0.0	18.6	0.0	18.6
Bareilly 765 kV	765	791	02:59	751	11:40	0.0	0.0	0.0	0.0	0.0
Anta	765	780	03:01	763	09:43	0.0	0.0	0.0	0.0	0.0
Phagi	765	785	01:33	751	11:36	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	481.50	495.33	480.47	468.02	165.68	355.69
Pong	426.72	384.05	396.81	157.28	402.44	273.51	71.39	87.67
Tehri	829.79	740.04	757.40	100.00	275.30	262.91	69.24	197.00
Koteswar	612.50	598.50	611.24	5.20	611.25	5.20	197.00	181.89
Chamera-I	760.00	748.75	755.52	0.00	0.00	0.00	131.98	125.82
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	496.54	5.46	507.89	4.16	151.39	284.91

* 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	5	91	0	-602	195	0	-2.10	3.96	1.87
Delhi	-713	111	0	-633	522	0	-15.79	8.42	-7.37
Haryana	-163	87	0	-192	158	0	-5.24	2.86	-2.38
HP	30	-149	0	132	-539	0	3.34	-4.36	-1.02
J&K	397	0	0	311	49	0	7.82	-0.46	7.37
CHD	0	0	0	0	-30	0	0.00	-0.20	-0.20
Rajasthan	-11	262	0	-7	285	0	0.54	6.61	7.15
UP	112	291	0	234	485	0	1.21	3.25	4.46
Uttarakhand	194	-307	0	194	-2	0	4.88	-2.07	2.81
Total	-150	388	0	-563	1124	0	-5.33	18.01	12.68

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	5	-602	223	57	0	0
Delhi	-624	-734	627	103	0	0
Haryana	-163	-391	162	-281	0	0
HP	242	30	45	-922	0	0
J&K	397	210	49	-221	0	0
CHD	0	0	0	-51	0	0
Rajasthan	182	-11	287	234	0	0
UP	301	-103	485	0	0	0
Uttarakhand	223	194	119	-307	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	0.69%
ER	0.00%
Simultaneous	1.04%

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

WR	13.89%
ER	0.00%
Simultaneous	17.36%

(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 25.03.2016 :

Normal

XV. Synchronisation of new generating units :

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

- 01) 220 kV Bala-Chak - Naraingarh-I 1st time charged at 15.15 hrs on date 25.03.2016.
- 02) 220 kV Bala-Chak - Naraingarh-II 1st time charged at 16.59 hrs on date 25.03.2016.
- 03) 500 MVA ICT-I 1st time charged @ no load at 1910 hrs on date 25.03.2016 at Mandaula.

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :