

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(सर्वसंश्लेषित की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.03.2016
Date of Reporting : 31.03.2016



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
35686	1733	37419	49.91	32163	878	33041	50.07	806.6	51.03

* 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	34.21	6.43		40.64	61.53	62.82	1.28	103.46	0.00
Haryana	36.29	0.18		36.47	74.01	71.44	-2.57	107.91	0.00
Rajasthan	105.34	1.75	11.52	118.61	55.44	57.83	2.39	176.44	0.00
Delhi	4.13			4.13	62.10	63.45	1.35	67.58	0.26
UP	126.66	3.08		129.74	110.23	114.09	3.86	243.83	39.54
Uttarakhand		6.89		6.89	23.42	26.57	3.15	33.46	0.33
HP		7.63		7.63	14.76	16.37	1.61	24.00	0.00
J & K		12.97	0.00	12.97	26.47	33.27	6.80	46.24	10.90
Chandigarh				0.00	3.43	3.64	0.27	3.64	0.00
Total	306.63	38.95	11.52	357.09	431.38	449.47	18.15	806.56	51.03

* 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	4887	0	167	-309	3550	0	-68	78	5172
Haryana	5289	0	-334	81	3479	0	-191	-547	6002
Rajasthan	6803	0	160	432	7339	0	88	369	8051
Delhi	3218	59	-32	69	2126	-1	70	-753	3454
UP	10662	1155	-32	865	11796	570	279	1240	11878
Uttarakhand	1600	0	34	449	1248	0	252	389	1607
HP	960	0	42	-380	776	0	173	90	1299
J&K	2073	518	475	267	1748	309	247	353	2311
Chandigarh	195	0	4	-10	101	0	8	0	195
Total	35686	1733	484	1465	32163	878	858	1219	39316

* 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	908	942	1066	22.89	954	21.66	1.23
	Rihand I STPS (2*500)	1000	720	682	801	17.12	713	16.94	0.18
	Rihand II STPS (2*500)	1000	946	783	1034	22.28	929	21.99	0.30
	Rihand III STPS (2*500)	1000	946	789	1009	22.39	933	22.31	0.08
	Dadri I STPS (4*210)	840	815	503	496	12.31	513	12.97	-0.65
	Dadri II STPS (2*490)	980	490	404	355	9.07	378	9.59	-0.51
	Unchahar I TPS (2*210)	420	350	364	381	8.24	343	8.33	-0.09
	Unchahar II TPS (2*210)	420	404	424	439	9.34	389	9.47	-0.14
	Unchahar III TPS (1*210)	210	202	200	219	4.58	191	4.68	-0.10
	ISTPP (Jhajjar) (3*500)	1500	950	330	303	7.13	297	7.24	-0.11
	Dadri GPS (4*130.19+2*154.51)	830	800	147	189	4.29	179	4.61	-0.32
	Anta GPS (3*88.71+1*153.2)	419	265	-1	-1	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	0	0	2.75	116	2.60	0.19
Sub Total (A)	12112	9109	5567	6291	1318	28.39	1183	28.63	-0.24
B. NPC	NAPS (2*220)	440	402	430	445	9.68	403	9.65	0.03
	RAPS- B (2*220)	440	376	419	422	9.07	378	9.02	0.05
	RAPS- C (2*220)	440	415	446	451	9.64	402	9.96	-0.32
	Sub Total (B)	1320	1193	1295	1318	28.39	1183	28.63	-0.24
C. NHPC	Chamera I HPS (3*180)	540	534	550	0	1.80	75	1.70	0.10
	Chamera II HPS (3*100)	300	300	304	0	3.02	126	2.87	0.16
	Chamera III HPS (3*77)	231	235	231	0	1.60	67	1.53	0.06
	Bairasuli HPS(3*60)	180	179	185	61	3.52	147	3.44	0.07
	Salal-HPS (6*115)	690	405	525	444	10.40	434	9.67	0.74
	Tanakpur-HPS (3*40)	94	16	14	15	0.44	18	0.38	0.06
	Uri-I HPS (4*120)	480	463	472	472	11.26	469	11.11	0.15
	Uri-II HPS (4*60)	240	215	217	217	5.19	216	5.15	0.04
	Dhauliganga-HPS (4*70)	280	280	287	0	1.04	43	0.96	0.08
	Dulhasi-HPS (3*130)	390	387	406	0	4.83	201	4.57	0.26
	Sewa-II HPS (3*40)	120	119	124	122	2.93	122	2.86	0.07
	Parbati 3 (4*130)	520	138	132	0	0.63	26	0.58	0.05
	Sub Total (C)	4065	3270	3446	1332	47	1945	45	2
D.SJVNL	NJPC (6*250)	1500	1350	1368	0	7.33	305	7.24	0.09
	Rampur HEP (6*68.67)	412	375	370	0	2.06	86	2.02	0.04
	Sub Total (D)	1912	1725	1738	0	9.39	391	9.26	0.13
E. THDC	Tehri HPS (4*250)	1000	456	452	0	4.35	181	4.40	-0.05
	Koteswar HPS (4*100)	400	92	101	91	2.21	92	2.20	0.01
	Sub Total (E)	1400	548	553	91	6.56	273	6.60	-0.04
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	519	962	383	12.70	529	12.45	0.25
	Dehar HPS (6*165)	990	249	660	165	5.95	248	5.97	-0.01
	Pong HPS (6*66)	396	129	275	0	2.93	122	3.09	-0.17
	Sub Total (F)	2765	896	1897	548	21.58	899	21.50	0.07
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.58	24	0.55	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	625	0	3.38	141	4.08	-0.70
	Malana Stg-II HPS (2*50)	100	0	0	0	0.36	15	0.35	0.01
	Shree Cement TPS (2*150)	300	0	290	299	7.02	292	7.10	-0.09
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.11	5	0.11	0.00
	Sub Total (G)	1662	0	915	299	11.44	477	12.19	-0.75
H. Total Regional Entities (A-G)	25237	16740	15411	9879	266.58	11107	265.50	1.08	

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	160	4.19	175	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.03	-1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	467	378	9.85	410	
	Goindwal(GVK)		279	277	6.01	250	
	Rajpura (2*700)	1400	660	530	14.19	591	
	Talwandi Saboo (2*660)	1320	0	308	0.01	0	
	Thermal (Total)	5360	1616	1653	34.21	1425	
	Total Hydro	1000	391	159	6.43	268	
	Total Punjab	6360	2007	1812	40.64	1693	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	447	451	10.32	430
DCRTPP (Yamuna nagar) (2*300)		600	547	480	11.79	491	
Faridabad GPS (NTPC)		432	187	160	4.01	167	
RGTPP (khedar) (IPP) (2*600)		1200	511	400	10.17	424	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4944	1692	1491	36.29	1512	
Total Hydro		62	0	0	0.18	8	
Total Haryana		5006	1692	1501	36.47	1520	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	854	861	21.44	894
	suratgarh TPS (6*250)	1500	193	193	4.75	198	
	Chabra TPS (4*250)	1000	616	637	14.71	613	
	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	219	214	5.06	211	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	158	159	3.65	152	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwast LTPS (IPP) (8*135)	1080	645	696	18.57	774	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalsindh Thermal(2*600)	1200	880	815	23.32	972	
	Kawail(Adani) (2*660)	1320	489	598	13.84	577	
	Thermal (Total)	8876	4054	4173	105	4389	
	Total Hydro	550	74	74	1.75	73	
	Wind power	3214	248	873	11.21	467	
	Biomass	99	13	13	0.31	13	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	261	886	11.52	480	
	Total Rajasthan	13469	4389	5133	118.61	4942	
	UP	Anpara TPS (3*210+2*500)	1630	1229	1067	28.02	1168
Obra TPS (2*50+2*94+5*200)		1194	402	405	9.40	392	
Paricha TPS (2*110+2*220+2*250)		1140	986	965	23.40	975	
Panki TPS (2*105)		210	72	68	1.70	71	
Harduaganj TPS (1*60+1*105+2*250)		665	314	326	7.80	325	
Tanda TPS (NTPC) (4*110)		440	377	296	7.61	317	
Roza TPS (IPP) (4*300)		1200	824	824	20.19	841	
Anpara-C (IPP) (2*600)		1200	1076	1089	25.94	1081	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	163	0	1.21	50	
Anpara-D(2*500)		500	0	0	0.00	0	
Lalitpur TPS(2*660)		1320	64	0	0.20	8	
Bara(2*660)		1320	0	0	0.00	0	
Thermal (Total)		11269	5507	5040	125	5227	
Vishnuparyag HPS (IPP)(4*110)		440	70	73	1.73	72	
Alakananda(4*82.5)		330	0	74	1.07	45	
Other Hydro		527	10	5	0.28	12	
Cogeneration		981	500	500	1.20	50	
Total UP		13547	6087	5692	130	5406	
Uttarakhand		Total Hydro	1398	423	193	6.89	287
		Total Uttarakhand	1398	423	193	6.89	287
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	39	37	0.81	34	
	Pragati Gas Turbine (2x104+ 1x122)	330	-3	-2	-0.02	-1	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-2	-2	-0.03	-1	
	Badarpur TPS (NTPC) (3*95+2*210)	705	161	161	3.39	141	
	Thermal (Total)	2917	195	194	4.13	172	
	Total Delhi	2917	195	194	4.13	172	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.63	26	
	Malana HPS (IPP) (2*43)	86	0	0	0.32	13	
	Other Hydro	878	276	259	6.68	278	
	Total HP	1264	276	259	7.63	318	
J & K	Baglihar HPS (IPP) (3*150)	450	440	438	10.55	440	
	Other Hydro/IPP	560	122	72	2.43	101	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	562	510	12.97	541	
Total State Control Area Generation		45161	15631	15294	357.09	14879	
J. Net Inter Regional Exchange (Import +ve)Export (-ve)			8937	8951	202.12	8422	
Total Regional Availability(Gross)		70398	39979	34124	825.79	34408	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8259	1971	91.29	3804
State Control Area Hydro	6581	1806	1357	39	1623
Total Regional Hydro	18815	10065	3328	130.24	5427

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	
	Vindhychal(HVDC B/B)	250		250		250	0	6.06	
765 KV Gwalior-Agra (D/C)	2784		2824		3111	0	66.26	0.00	66.26
400 KV Zerde-Kankroli	-118		-184		0	238	0.00	4.31	-4.31
400 KV Zerde-Bhinmal	-54		-141		0	204	0.00	3.19	-3.19
220 KV Auraiya-Malanpur	10		23		14	0	0.38	0.00	0.38
220 KV Badod-Kota/Morak	-58		-57		17	56	0.00	1.04	-1.04
Mundra-Mohindergarh(HVDC Bipole)	2499		2502		2507	0	60.45	0.00	60.45
400 KV Vindhychal - Rihand	0		0		0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1166		889		585	0	24.87	0.00	24.87
Sub Total WR	6479		6106				158.02	8.53	149.48
Pusauli Bypass/HVDC	250		400		400	0	7.21	0.00	7.21
400 KV MZP- GKP (D/C)	38		100		204	330	0.00	1.62	-1.62
400 KV Patna-Balia(D/C) X 2	525		576		752	0	13.06	0.00	13.06
400 KV B'Sharif-Balia (D/C)	133		203		219	0	4.17	0.00	4.17
765 KV Gaya-Balia	280		356		409	0	4.18	0.00	4.18
765 KV Gaya-Varanasi -1	0		0		0	0	0.00	0.00	0.00
220 KV Pusauli-Sahupuri	0		0		0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0		0		0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-24		-23		0	27	0.00	0.53	-0.53
132 KV Garhwa-Rihand	0		0		0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-182		-269		13	269	0.00	2.83	-2.83
400 KV Barh -GKP (D/C)	438		502		522	0	11.20	0.00	11.20
400 kvB'Sharif - Varanasi (D/C)	500		500		500	500	8.90	0.00	8.90
Sub Total ER	1958		2345				48.72	4.98	43.74
+/- 800 KV BiswanathCharialli-Agra	500		500		500	500	8.90	0.00	8.90
Sub Total NER	500		500				8.90	0.00	8.90
Total IR Exch	8937		8951				215.63	13.51	202.12

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)			Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Total	Through ER	Through WR	Through ER	Through WR
43.61	0.61	44.22	1.52	-7.50	0.00	32.39	0.00	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	
45.74	139.61	185.35	52.64	149.48	202.12	6.90	9.87	16.77	

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	-26		-30		0	33	0	

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	9.80	50.85	68.34	17.42	4.87	0.16	0.00	
Frequency (Hz)					Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum		Hz			MAX	MIN		
Freq	Time	Freq	Time				(Hz)	(Hz)		
50.23	17.02	49.80	4.30	49.99	0.049	0.070	50.19	49.92	31.66	

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	404	08:30	398	10:23	0.0	0.0	
Gorakhpur	400	420	08:42	403	01:30	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	424	13:02	402	19:12	0.0	0.0	1.3	0.0	1.3
Kanpur	400	419	13:01	403	19:12	0.0	0.0	0.0	0.0	0.0
Dadri	400	424	02:04	405	19:13	0.0	0.0	21.2	0.0	21.2
Ballaahgarh	400	429	01:58	409	19:13	0.0	0.0	49.2	0.0	49.2
Bawana	400	428	02:21	408	19:11	0.0	0.0	32.2	0.0	32.2
Bassi	400	424	04:59	404	19:13	0.0	0.0	12.6	0.0	12.6
Hissar	400	423	01:59	404	19:13	0.0	0.0	12.8	0.0	12.8
Moga	400	422	13:02	403	10:28	0.0	0.0	0.9	0.0	0.9
Abdullapur	400	428	01:59	407	19:12	0.0	0.0	26.6	0.0	26.6
Nalagarh	400	434	02:13	411	11:39	0.0	0.0	46.5	13.6	46.5
Kishenpur	400	424	01:53	403	06:45	0.0	0.0	18.3	0.0	18.3
Wagoora	400	410	13:01	381	06:46	0.0	23.0	0.0	0.0	0.0
Amritsar	400	424	01:52	163	10:24	0.3	0.3	17.0	0.0	17.3
Kashipur	400	423	13:03	412	10:31	0.0	0.0	2.1	0.0	2.1
Hamirpur	400	426	02:22	403	10:25	0.0	0.0	38.9	0.0	38.9
Rishikesh	400	417	13:03	392	19:13	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	774	13:03	739	22:07	0.0	1.5	
Balia	765	775	17:31	754	20:17	0.0	0.0	0.0	0.0	0.0
Moga	765	807	13:02	768	10:27	0.0	0.0	2.7	0.0	2.7
Agra	765	789	13:01	758	22:23	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	804	13:00	776	19:10	0.0	0.0	13.9	0.0	13.9
Unnao	765	766	13:02	742	19:10	0.0	0.0	0.0	0.0	0.0
Lucknow	765	792	13:02	762	01:30	0.0	0.0	0.0	0.0	0.0
Meerut	765	816	13:01	778	19:13	0.0	0.0	16.9	0.0	16.9
Jhatikara	765	808	13:02	772	19:12	0.0	0.0	20.5	0.0	20.5
Bareilly 765 kV	765	804	13:02	759	19:13	0.0	0.0	0.7	0.0	0.7
Anta	765	781	02:24	765	11:34	0.0	0.0	0.0	0.0	0.0
Phagi	765	0	00:00	0	00:00	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	480.50	468.02	480.43	468.02	185.16	399.69
Pong	426.72	384.05	396.39	146.09	402.68	281.22	54.09	229.17
Tehri	829.79	740.04	754.45	80.14	773.95	251.76	41.45	151.00
Koteswar	612.50	598.50	610.91	4.95	611.20	5.20	151.00	145.42
Chamera-I	760.00	748.75	758.30	0.00	0.00	0.00	125.51	50.75
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	496.27	1.09	509.39	2.42	74.40	112.43

* 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	73	0	-500	191	0	-1.79	3.05	1.26
Delhi	-700	-53	0	-619	689	0	-14.97	9.65	-5.32
Haryana	-145	-402	0	-174	256	0	-4.81	2.45	-2.36
HP	30	60	0	132	-512	0	3.34	-2.39	0.96
J&K	381	-28	0	295	-28	0	7.05	-1.20	5.85
CHD	0	0	0	0	-10	0	0.00	-0.14	-0.14
Rajasthan	-11	380	0	-7	440	0	0.57	11.68	12.25
UP	171	1069	0	185	680	0	2.03	8.97	11.00
Uttarakhand	194	195	0	194	255	0	4.74	5.59	10.33
Total	-75	1295	0	-495	1960	0	-3.83	37.66	33.83

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	5	-500	201	-30	0	0
Delhi	-562	-700	814	-63	0	0
Haryana	-145	-373	316	-604	0	0
HP	243	30	84	-731	0	0
J&K	381	144	-17	-219	0	0
CHD	0	0	15	-35	0	0
Rajasthan	186	-11	586	169	0	0
UP	256	-34	1069	0	0	0
Uttarakhand	223	194	343	117	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	0.35%

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

WR	0.00%
ER	0.00%
Simultaneous	62.85%

(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 30.03.2016 :

Normal

XV. Synchronisation of new generating units :

I. Lalitpur # 3 (660MW) 1st time synchronised at 1848 Hrs.

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

- 50MVA B/R at 400KV Kota 1st time charged at 1852 Hrs.
- 500MVA ICT-3 at 400KV Panchkula 1st time charged at 2152 Hrs.

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :