पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 20.03.2016
Date of Reporting : 21.03.2016

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
32849	800	33649	50.09	31390	468	31858	49.89	777.5	35.53

* 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:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule	Actual Drawal	UI	Consumption	Shortages *
	Thermal	Hydro	Renewable/others $	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)
Punjab	19.99	5.23		25.22	49.42	50.16	0.74	75.38	0.00
Haryana	30.18	0.39		30.58	67.71	66.49	-1.22	97.06	0.00
Rajasthan	115.34	2.85	12.00	130.20	58.63	60.46	1.83	190.65	0.00
Delhi	10.24			10.24	49.07	49.05	-0.02	59.29	0.00
UP	130.07	2.49		132.56	119.36	122.49	3.13	255.04	26.03
Uttarakhand		9.78		9.78	20.58	21.81	1.23	31.59	0.00
HP		9.02		9.02	14.64	16.24	1.60	25.26	0.02
J & K		11.52	0.00	11.52	29.41	28.74	-0.67	40.25	9.48
Chandigarh				0.00	3.02	2.98	0.27	2.98	0.00
Total	**305.82**	**41.27**	**12.00**	**359.10**	**411.83**	**418.41**	**6.89**	**777.50**	**35.53**

* Shortage furnished by the respective constituent.$ Others include UP Co-generation and JK Diesel

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

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	3222	0	-47	-642	2424	0	-140	158	3690
Haryana	4706	0	80	66	3197	0	-91	-553	5374
Rajasthan	6968	0	-230	439	8570	0	-10	452	8873
Delhi	2664	0	-207	-519	1933	0	128	-930	3007
UP	10670	320	-379	439	11611	190	199	620	11745
Uttarakhand	1550	0	105	408	1180	0	75	243	1571
HP	1000	1	78	-110	810	0	88	104	1318
J&K	1918	480	171	198	1574	278	-81	379	1926
Chandigarh	152	0	-7	-25	91	0	11	-15	157
Total	**32849**	**800**	**-435**	**253**	**31390**	**468**	**178**	**458**	**36064**

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

Diversity is 1.04

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

	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	1890	1991	1972	43.68	1820	43.68	0.00
	Rihand I STPS (2*500)	1000	838	833	896	18.16	757	18.10	0.06
	Rihand II STPS (2*500)	1000	948	869	1021	20.14	839	20.22	-0.07
	Rihand III STPS (2*500)	1000	948	912	1005	21.24	885	21.39	-0.15
	Dadri I STPS (4*210)	840	815	279	309	7.35	306	7.61	-0.27
	Dadri II STPS (2*490)	980	980	677	684	16.36	682	16.91	-0.54
	Unchahar I TPS (2*210)	420	350	305	279	6.53	272	6.53	0.00
	Unchahar II TPS (2*210)	420	404	305	314	6.82	284	6.80	0.02
	Unchahar III TPS (1*210)	210	202	154	148	3.39	141	3.39	-0.01
	ISTPP (Jhajjhar) (3*500)	1500	950	302	304	6.60	275	6.84	-0.24
	Dadri GPS (4*130.19+2*154.51)	830	600	185	190	4.38	182	4.57	-0.20
	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	655	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	2	0	0	0.07	3	0.06	0.01
	KHEP(4*200)	800	655	652	0	2.88	120	3.00	-0.12
	Sub Total (A)	**12112**	**10654**	**7464**	**7122**	**158**	**6569**	**159**	**-2**
B. NPC	NAPS (2*220)	440	400	404	444	9.59	400	9.60	-0.01
	RAPS- B (2*220)	440	376	420	425	9.10	379	9.02	0.07
	RAPS- C (2*220)	440	418	444	451	9.66	402	10.03	-0.37
	Sub Total (B)	**1320**	**1194**	**1268**	**1320**	**28.35**	**1181**	**28.66**	**-0.31**
C. NHPC	Chamera I HPS (3*180)	540	534	531	0	4.08	170	4.00	0.08
	Chamera II HPS (3*100)	300	300	308	0	2.25	94	2.13	0.13
	Chamera III HPS (3*77)	231	235	230	0	1.22	51	1.18	0.04
	Bairasuil HPS(3*60)	180	179	185	123	4.15	173	4.10	0.05
	Salal-HPS (6*115)	690	500	557	450	12.74	531	12.01	0.72
	Tanakpur-HPS (3*40)	94	16	16	15	0.45	19	0.39	0.06
	Uri-I HPS (4*120)	480	453	470	470	10.98	458	10.89	0.09
	Uri-II HPS (4*60)	240	200	212	180	4.87	203	4.81	0.05
	Dhauliganga-HPS (4*70)	280	210	215	0	0.71	30	0.63	0.08
	Dulhasti-HPS (3*130)	390	387	408	0	3.80	158	3.57	0.23
	Sewa-II HPS (3*40)	120	119	124	125	2.94	123	2.86	0.08
	Parbati 3 (4*130)	520	139	208	0	0.66	28	0.59	0.07
	Sub Total (C)	**4065**	**3272**	**3464**	**1362**	**49**	**2035**	**47**	**2**
D.SJVNL	NJPC (6*250)	1500	1350	1000	0	7.27	303	7.22	0.05
	Rampur HEP (6*68.67)	412	375	364	0	2.04	85	2.02	0.03
	Sub Total (D)	**1912**	**1725**	**1364**	**0**	**9.31**	**388**	**9.23**	**0.08**
E. THDC	Tehri HPS (4*250)	1000	618	655	0	5.33	222	5.38	-0.05
	Koteshwar HPS (4*100)	400	114	299	90	2.73	114	2.73	0.00
	Sub Total (E)	**1400**	**732**	**954**	**90**	**8.06**	**336**	**8.11**	**-0.05**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	461	753	376	10.90	454	11.07	-0.17
	Dehar HPS (6*165)	990	318	495	165	7.65	319	7.64	0.01
	Pong HPS (6*66)	396	115	220	55	2.62	109	2.75	-0.13
	Sub Total (F)	**2765**	**894**	**1468**	**596**	**21.16**	**882**	**21.46**	**-0.30**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.39	16	0.37	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	625	0	3.38	141	3.84	-0.46
	Malana Stg-II HPS (2*50)	100	0	0	0	0.22	9	0.21	0.01
	Shree Cement TPS (2*150)	300	0	295	291	7.03	293	7.10	-0.07
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.23	9	0.21	0.02
	Sub Total (G)	1662	0	920	291	11.24	468	11.72	-0.48
H. Total Regional Entities (A-G)		**25237**	**18471**	**16902**	**10782**	**284.62**	**11859**	**285.51**	**-0.89**

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	3.73	155
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.07	-3
	Goindwal(GVK)		0	0	0.93	39
	Rajpura (2*700)	1400	660	660	15.48	645
	Talwandi Saboo (2*660)	1320	0	0	-0.05	-2
	Thermal (Total)	**5360**	**870**	**820**	**19.99**	**833**
	Total Hydro	1000	305	157	5.23	218
	Total Punjab	**6360**	**1175**	**977**	**25.22**	**1051**
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	457	457	10.97	457
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	800	779	19.22	801
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**4944**	**1257**	**1236**	**30.18**	**1258**
	Total Hydro	62	9	12	0.39	16
	Total Haryana	**5006**	**1266**	**1248**	**30.58**	**1274**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	687	689	16.92	705
	suratgarh TPS (6*250)	1500	385	387	9.23	384
	Chabra TPS (4*250)	1000	731	809	18.17	757
	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	216	218	5.45	227
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	95	95	2.10	88
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	515	878	16.62	692
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	807	891	20.50	854
	Kawai(Adani) (2*660)	1320	864	1173	26.35	1098
	Thermal (Total)	**8876**	**4300**	**5140**	**115**	**4806**
	Total Hydro	550	143	93	2.85	119
	Wind power	3214	264	962	11.37	474
	Biomass	99	11	11	0.27	11
	Solar	730	7	0	0.37	15
	Renewable/Others (Total)	4043	282	973	12.00	500
	Total Rajasthan	**13469**	**4725**	**6206**	**130.20**	**5425**
UP	Anpara TPS (3*210+2*500)	1630	1069	1067	25.81	1075
	Obra TPS (2*50+2*94+5*200)	1194	440	446	10.66	444
	Paricha TPS (2*110+2*220+2*250)	1140	575	719	15.40	642
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	313	320	7.72	322
	Tanda TPS (NTPC) (4*110)	440	350	380	9.28	386
	Roza TPS (IPP) (4*300)	1200	545	558	12.61	525
	Anpara-C (IPP) (2*600)	1200	1067	990	25.38	1058
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	500	341	196	6.41	267
	Lalitpur TPS(2*660)	1320	0	0	0.00	0
	Bara(2*660)	1320	0	0	0.00	0
	Thermal (Total)	**11269**	**4700**	**4676**	**113**	**4719**
	Vishnuparyag HPS (IPP)(4*110)	440	62	63	0.15	6
	Alaknanada(4*82.5)	330	70	79	0.11	5
	Other Hydro	527	68	208	2.23	93
	Cogeneration	981	700	700	16.80	700
	Total UP	**13547**	**5600**	**5726**	**133**	**5523**
Uttarakhand	Total Hydro	1398	441	377	9.78	408
	Total Uttarakhand	**1398**	**441**	**377**	**9.78**	**408**
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	35	34	0.90	38
	Pragati Gas Turbine (2x104+ 1x122)	330	0	0	-0.02	-1
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	250	6.03	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.33	139
	Thermal (Total)	2917	450	449	10.24	427
	Total Delhi	**2917**	**450**	**449**	**10.24**	**427**
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.93	39
	Malana HPS (IPP) (2*43)	86	0	0	0.33	14
	Other Hydro	878	324	273	7.76	323
	Total HP	**1264**	**324**	**273**	**9.02**	**376**
J & K	Baglihar HPS (IPP) (3*150)	450	291	438	8.46	352
	Other Hydro/IPP	560	160	79	3.06	127
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	**1200**	**451**	**517**	**11.52**	480
Total State Control Area Generation		**45161**	**14432**	**15773**	**359.10**	**14962**
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			**4892**	**5923**	**149.52**	**6230**
Total Regional Availability(Gross)		**70398**	**36226**	**32478**	**793.24**	**33052**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8526**	**2049**	**94.25**	**3927**
State Control Area Hydro	**6581**	**1873**	**1779**	**41**	**1720**
Total Regional Hydro	**18815**	**10399**	**3828**	**135.52**	**5647**

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
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	-250	-150	0	250	0.00	4.91	-4.91
765 KV Gwalior-Agra (D/C)	2349	2670	3105	0	66.69	0.00	66.69
400 KV Zerda-Kankroli	-138	-233	8	258	0.00	3.71	-3.71
400 KV Zerda-Bhinmal	-63	-189	63	254	0.00	2.14	-2.14
220 KV Auraiya-Malanpur	-23	-34	0	42	0.00	0.26	-0.26
220 KV Badod-Kota/Morak	-25	-13	80	25	0.77	0.00	0.77
Mundra-Mohindergarh(HVDC Bipole)	2499	2503	2506	0	60.45	0.00	60.45
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	643	645	963	0	19.26	0.00	19.26
Sub Total WR	**4992**	**5199**			**147.17**	**11.01**	**136.15**
Pusauli Bypass/HVDC	400	400	400	0	9.05	0.00	9.05
400 KV MZP- GKP (D/C)	-684	-448	0	684	0.00	12.84	-12.84
400 KV Patna-Balia(D/C) X 2	139	318	369	0	6.63	0.00	6.63
400 KV B'Sharif-Balia (D/C)	-363	-219	0	333	0.00	5.72	-5.72
765 KV Gaya-Balia	-24	71	172	36	1.11	0.00	1.11
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	-22	-28	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	-433	-307	0	433	0.00	6.12	-6.12
400 KV Barh -GKP (D/C)	402	452	478	0	10.26	0.00	10.26
Sub Total ER	**-585**	**239**			**27.05**	**25.28**	**1.78**
+/- 800 KV BiswanathChariali-Agra	485	485	486	0	11.59	0.00	11.59
Sub Total NER	**485**	**485**			**11.59**	**0.00**	**11.59**
Total IR Exch	**4892**	**5923**			**185.81**	**36.29**	**149.52**

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
24.20	0.19	24.39	0.93	-7.50	-0.30	12.89	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
25.02	123.23	148.24	13.37	136.15	149.52	-11.65	12.93	1.28

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	MU
132 KV Tanakpur - Mahendarnagar	-32	-29	0	32	0	1	-0.70

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	0.22	3.17	37.33	67.07	21.35	8.17	0.29	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)	
50.26	6.02	49.76	21.05	50.02	0.041	0.061	50.24	49.96	32.93

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	403	00:00	400	14:30	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	09:17	402	19:06	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	09:03	402	19:08	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	09:11	398	19:14	0.0	0.0	0.0	0.0	0.0
Dadri	400	424	02:35	405	19:18	0.0	0.0	19.0	0.0	19.0
Ballabhgarh	400	430	02:44	408	19:17	0.0	0.0	80.2	0.0	80.2
Bawana	400	428	02:36	406	19:18	0.0	0.0	63.3	0.0	63.3
Bassi	400	422	18:16	400	19:18	0.0	0.0	0.8	0.0	0.8
Hissar	400	424	02:51	401	19:17	0.0	0.0	6.9	0.0	6.9
Moga	400	421	02:36	398	19:20	0.0	0.0	1.7	0.0	1.7
Abdullapur	400	426	02:43	402	19:16	0.0	0.0	33.8	0.0	33.8
Nalagarh	400	435	02:52	410	19:17	0.0	0.0	85.3	14.7	85.3
Kishenpur	400	422	02:36	396	19:13	0.0	0.0	5.8	0.0	5.8
Wagoora	400	399	03:58	370	19:12	18.8	62.5	0.0	0.0	18.8
Amritsar	400	428	02:52	404	19:17	0.0	0.0	40.1	0.0	40.1
Kashipur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	426	03:28	413	11:15	0.0	0.0	42.4	0.0	42.4
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	769	13:01	734	19:19	0.0	5.0	0.0	0.0	0.0
Balia	765	773	09:07	746	19:20	0.0	0.0	0.0	0.0	0.0
Moga	765	806	16:00	759	19:16	0.0	0.0	4.5	0.0	4.5
Agra	765	789	16:03	751	19:20	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	13:03	769	19:14	0.0	0.0	14.5	0.0	14.5
Unnao	765	765	09:11	738	19:14	0.0	3.6	0.0	0.0	0.0
Lucknow	765	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Meerut	765	814	16:01	770	19:19	0.0	0.0	46.2	0.0	46.2
Jhatikara	765	807	02:52	767	19:18	0.0	0.0	16.4	0.0	16.4
Bareilly 765 kV	765	786	09:06	757	19:17	0.0	0.0	0.0	0.0	0.0
Anta	765	777	16:01	758	22:34	0.0	0.0	0.0	0.0	0.0
Phagi	765	790	16:03	757	19:19	0.0	0.0	0.0	0.0	0.0

IX. Reservior Parameters:

Name of Reservior	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	482.09	511.55	480.76	474.82	225.57	349.26
Pong	426.72	384.05	396.91	157.28	402.11	266.33	160.61	197.25
Tehri	829.79	740.04	760.45	124.28	777.25	288.43	39.90	176.00
Koteshwar	612.50	598.50	610.88	4.96	610.87	4.95	176.00	179.92
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	181.48	112.87
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	497.78	1.13	507.64	3.27	119.38	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	5	153	0	-679	37	0	-2.33	4.33	2.00
Delhi	-814	-115	0	-632	113	0	-16.33	1.88	-14.45
Haryana	-150	-403	0	-191	257	0	-5.13	0.41	-4.72
HP	30	74	0	132	-241	0	3.34	-2.76	0.57
J&K	379	0	0	209	-11	0	7.36	-0.61	6.75
CHD	0	-15	0	0	-25	0	0.00	-0.31	-0.31
Rajasthan	-7	459	0	-7	446	0	0.62	9.93	10.55
UP	135	485	0	439	0	0	2.26	3.40	5.66
Uttarakhand	193	50	0	193	214	0	4.81	2.53	7.34
Total	**-229**	**687**	**0**	**-537**	**790**	**0**	**-5.41**	**18.80**	**13.39**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	5	-679	278	-482	0	0
Delhi	-624	-814	372	-121	0	0
Haryana	-150	-394	301	-602	0	0
HP	242	30	74	-747	0	0
J&K	379	209	0	-228	0	0
CHD	0	0	0	-46	0	0
Rajasthan	189	-7	459	-3	0	0
UP	444	-68	485	0	0	0
Uttarakhand	222	193	234	49	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%**

XII.System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 20.03.2016 :
Normal

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :
0.00
0.00

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :

Report for : 20.03.2016 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**