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 28.03.2016
Date of Reporting : 29.03.2016

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
35779	615	36394	49.99	29783	638	30421	50.04	810.8	43.45

* 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	38.04	6.21		44.25	62.87	63.69	0.82	107.94	0.00
Haryana	27.48	0.24		27.72	78.64	79.17	0.53	106.90	0.00
Rajasthan	101.94	1.99	7.39	111.32	62.98	65.81	2.83	177.13	0.00
Delhi	4.25			4.25	58.40	59.02	0.61	63.27	0.17
UP	140.74	2.90		143.64	103.39	107.80	4.41	251.44	34.35
Uttarakhand		8.01		8.01	22.20	24.56	2.36	32.57	0.07
HP		8.16		8.16	14.54	15.47	0.93	23.62	0.00
J & K		10.61	0.00	10.61	28.67	33.86	5.19	44.47	8.86
Chandigarh				0.00	3.25	3.44	0.27	3.44	0.00
Total	**312.45**	**38.12**	**7.39**	**357.96**	**434.94**	**452.82**	**17.96**	**810.78**	**43.45**

* 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	5021	0	155	-331	3342	0	48	188	5036
Haryana	5606	0	214	107	3139	0	-12	115	5960
Rajasthan	6832	0	207	563	6911	0	59	559	7910
Delhi	3018	0	-38	-87	2001	0	81	-767	3265
UP	10377	85	-120	276	10797	335	228	150	11388
Uttarakhand	1648	0	122	454	1123	0	214	253	1648
HP	979	0	-55	-304	661	0	0	28	1262
J&K	2120	530	427	316	1715	303	189	387	2194
Chandigarh	178	0	9	-30	94	0	8	-15	178
Total	**35779**	**615**	**921**	**963**	**29783**	**638**	**815**	**896**	**38324**

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

Diversity is 1.01

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	1854	2013	1931	44.37	1849	44.29	0.07
	Rihand I STPS (2*500)	1000	380	421	343	9.06	377	8.86	0.20
	Rihand II STPS (2*500)	1000	946	867	897	22.04	918	21.72	0.32
	Rihand III STPS (2*500)	1000	946	977	900	22.45	935	22.46	-0.01
	Dadri I STPS (4*210)	840	806	579	386	10.91	455	11.49	-0.58
	Dadri II STPS (2*490)	980	495	432	393	10.08	420	10.48	-0.40
	Unchahar I TPS (2*210)	420	350	378	364	7.89	329	8.07	-0.19
	Unchahar II TPS (2*210)	420	404	428	437	8.72	364	8.81	-0.08
	Unchahar III TPS (1*210)	210	180	216	154	3.52	146	3.76	-0.24
	ISTPP (Jhajjhar) (3*500)	1500	950	357	334	8.20	342	8.50	-0.30
	Dadri GPS (4*130.19+2*154.51)	830	801	185	191	4.40	183	4.64	-0.25
	Anta GPS (3*88.71+1*153.2)	419	265	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	2	0	0	0.07	3	0.06	0.01
	KHEP(4*200)	800	655	656	0	2.12	88	2.00	0.12
	Sub Total (A)	**12112**	**9689**	**7509**	**6330**	**154**	**6411**	**155**	**-1**
B. NPC	NAPS (2*220)	440	400	436	444	9.70	404	9.60	0.10
	RAPS- B (2*220)	440	375	419	420	9.04	377	9.00	0.04
	RAPS- C (2*220)	440	415	443	451	9.66	403	9.96	-0.30
	Sub Total (B)	**1320**	**1190**	**1298**	**1315**	**28.40**	**1183**	**28.56**	**-0.16**
C. NHPC	Chamera I HPS (3*180)	540	534	543	0	2.46	103	2.30	0.17
	Chamera II HPS (3*100)	300	300	304	0	2.30	96	2.22	0.09
	Chamera III HPS (3*77)	231	235	227	0	1.18	49	1.10	0.08
	Bairasuil HPS(3*60)	180	179	185	60	3.18	132	3.07	0.11
	Salal-HPS (6*115)	690	317	469	456	8.57	357	7.62	0.95
	Tanakpur-HPS (3*40)	94	15	17	14	0.45	19	0.35	0.10
	Uri-I HPS (4*120)	480	474	471	470	11.40	475	11.38	0.02
	Uri-II HPS (4*60)	240	216	222	220	5.26	219	5.20	0.06
	Dhauliganga-HPS (4*70)	280	280	0	0	0.92	38	0.84	0.08
	Dulhasti-HPS (3*130)	390	387	402	0	4.51	188	4.28	0.22
	Sewa-II HPS (3*40)	120	119	126	125	2.97	124	2.86	0.11
	Parbati 3 (4*130)	520	138	134	0	0.63	26	0.59	0.04
	Sub Total (C)	**4065**	**3194**	**3100**	**1346**	**44**	**1826**	**42**	**2**
D.SJVNL	NJPC (6*250)	1500	1350	1347	0	7.56	315	7.39	0.16
	Rampur HEP (6*68.67)	412	375	375	0	2.14	89	2.06	0.08
	Sub Total (D)	**1912**	**1725**	**1722**	**0**	**9.69**	**404**	**9.46**	**0.24**
E. THDC	Tehri HPS (4*250)	1000	465	458	0	5.35	223	5.40	-0.05
	Koteshwar HPS (4*100)	400	114	303	90	2.73	114	2.73	0.00
	Sub Total (E)	**1400**	**579**	**761**	**90**	**8.08**	**337**	**8.13**	**-0.05**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	499	959	383	12.16	507	11.97	0.20
	Dehar HPS (6*165)	990	250	495	165	6.16	257	6.00	0.16
	Pong HPS (6*66)	396	116	275	0	2.75	115	2.79	-0.04
	Sub Total (F)	**2765**	**865**	**1729**	**548**	**21.08**	**878**	**20.75**	**0.32**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.67	28	0.65	0.03
	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	0.29	12	0.27	0.01
	Shree Cement TPS (2*150)	300	0	292	299	7.07	294	7.10	-0.03
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	917	299	11.41	475	12.10	-0.69
H. Total Regional Entities (A-G)		**25237**	**17242**	**17036**	**9928**	**276.36**	**11515**	**276.00**	**0.36**

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	3.88	162
	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	395	0	3.73	155
	Goindwal(GVK)		273	240	5.45	227
	Rajpura (2*700)	1400	660	330	13.38	558
	Talwandi Saboo (2*660)	1320	614	308	11.62	484
	Thermal (Total)	**5360**	**2152**	**1038**	**38.04**	**1585**
	Total Hydro	1000	428	181	6.21	259
	Total Punjab	**6360**	**2580**	**1219**	**44.25**	**1844**
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	232	216	5.13	214
	DCRTPP (Yamuna nagar) (2*300)	600	549	483	11.87	494
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (khedar) (IPP) (2*600)	1200	546	397	10.49	437
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0
	Thermal (Total)	**4944**	**1327**	**1096**	**27.48**	**1145**
	Total Hydro	62	7	13	0.24	10
	Total Haryana	**5006**	**1334**	**1109**	**27.72**	**1155**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	696	350	14.59	608
	suratgarh TPS (6*250)	1500	195	196	4.79	200
	Chabra TPS (4*250)	1000	630	677	15.57	649
	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	217	219	5.49	229
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	141	158	3.47	145
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	707	840	19.41	809
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	883	1115	24.63	1026
	Kawai(Adani) (2*660)	1320	474	592	13.99	583
	Thermal (Total)	**8876**	**3943**	**4147**	**102**	**4247**
	Total Hydro	550	116	77	1.99	83
	Wind power	3214	45	239	4.27	178
	Biomass	99	13	13	0.31	13
	Solar	730	0	0	2.80	117
	Renewable/Others (Total)	4043	58	252	7.39	308
	Total Rajasthan	**13469**	**4117**	**4476**	**111.32**	**4638**
UP	Anpara TPS (3*210+2*500)	1630	1072	1072	25.80	1075
	Obra TPS (2*50+2*94+5*200)	1194	308	310	7.30	304
	Paricha TPS (2*110+2*220+2*250)	1140	940	951	23.00	958
	Panki TPS (2*105)	210	59	79	1.70	71
	Harduaganj TPS (1*60+1*105+2*250)	665	301	327	7.20	300
	Tanda TPS (NTPC) (4*110)	440	387	390	9.24	385
	Roza TPS (IPP) (4*300)	1200	810	810	19.50	813
	Anpara-C (IPP) (2*600)	1200	1076	1080	25.80	1075
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0
	Anpara-D(2*500)	500	284	293	6.80	283
	Lalitpur TPS(2*660)	1320	0	0	0.00	0
	Bara(2*660)	1320	0	0	0.00	0
	Thermal (Total)	**11269**	**5237**	**5312**	**126**	**5264**
	Vishnuparyag HPS (IPP)(4*110)	440	67	65	1.60	67
	Alaknanada(4*82.5)	330	0	82	1.00	42
	Other Hydro	527	2	2	0.30	13
	Cogeneration	981	600	600	14.40	600
	Total UP	**13547**	**5906**	**6061**	**144**	**5985**
Uttarakhand	Total Hydro	1398	500	174	8.01	334
	Total Uttarakhand	**1398**	**500**	**174**	**8.01**	**334**
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	36	35	0.91	38
	Pragati Gas Turbine (2x104+ 1x122)	330	23	0	0.28	12
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	0	0	-0.05	-2
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.12	130
	Thermal (Total)	2917	224	200	4.25	177
	Total Delhi	**2917**	**224**	**200**	**4.25**	**177**
HP	Baspa HPS (IPP) (3*100)	300	0	55	0.95	40
	Malana HPS (IPP) (2*43)	86	0	0	0.36	15
	Other Hydro	878	312	257	6.85	285
	Total HP	**1264**	**312**	**312**	**8.16**	**340**
J & K	Baglihar HPS (IPP) (3*150)	450	440	300	8.18	341
	Other Hydro/IPP	560	122	72	2.43	101
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	**1200**	**562**	**372**	**10.61**	442
Total State Control Area Generation		**45161**	**15535**	**13923**	**357.96**	**14915**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**6823**	**7256**	**185.49**	**7729**
Total Regional Availability(Gross)		**70398**	**39394**	**31107**	**819.80**	**34158**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**8593**	**1984**	**89.14**	**3714**
State Control Area Hydro	**6581**	**1994**	**1278**	**38**	**1588**
Total Regional Hydro	**18815**	**10587**	**3262**	**127.25**	**5302**

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	-50	250	50	2.75	0.55	2.20
765 KV Gwalior-Agra (D/C)	2347	2517	3275	0	68.02	0.00	68.02
400 KV Zerda-Kankroli	-22	-177	0	190	0.00	2.72	-2.72
400 KV Zerda-Bhinmal	-79	-139	64	145	0.00	1.29	-1.29
220 KV Auraiya-Malanpur	-10	-30	0	30	0.05	0.00	0.05
220 KV Badod-Kota/Morak	-23	8	42	47	0.27	0.00	0.27
Mundra-Mohindergarh(HVDC Bipole)	2503	2298	2505	0	57.05	0.00	57.05
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	935	957	1340	0	27.33	0.00	27.33
Sub Total WR	**5901**	**5384**			**155.48**	**4.56**	**150.92**
Pusauli Bypass/HVDC	400	400	400	0	9.00	0.00	9.00
400 KV MZP- GKP (D/C)	64	164	236	306	0.11	0.00	0.11
400 KV Patna-Balia(D/C) X 2	416	381	670	0	11.08	0.00	11.08
400 KV B'Sharif-Balia (D/C)	21	-38	93	130	0.58	0.00	0.58
765 KV Gaya-Balia	161	187	298	0	2.79	0.00	2.79
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	0	-24	30	30	0.00	0.50	-0.50
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-108	-193	252	193	0.00	0.50	-0.50
400 KV Barh -GKP (D/C)	452	492	266	0	11.09	0.00	11.09
Sub Total ER	**1406**	**1369**			**34.65**	**1.00**	**33.65**
+/- 800 KV BiswanathChariali-Agra	-484	503	485	507	0.92	0.00	0.92
Sub Total NER	**-484**	**503**			**0.92**	**0.00**	**0.92**
Total IR Exch	**6823**	**7256**			**191.05**	**5.56**	**185.49**

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
34.55	0.15	34.69	1.49	-7.50	0.68	26.88	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
36.86	141.73	178.59	34.57	150.92	185.49	-2.29	9.19	6.90

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	-28	-32	0	33	0	1	-0.69

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	7.05	53.88	74.59	14.19	4.25	0.36	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)	
50.31	18.02	49.81	0.06	49.99	0.043	0.065	50.17	49.98	25.41

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	15:05	400	19:16	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	09:01	406	05:08	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	18:00	401	11:37	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	16:03	404	19:11	0.0	0.0	0.0	0.0	0.0
Dadri	400	423	02:03	403	11:35	0.0	0.0	13.8	0.0	13.8
Ballabhgarh	400	428	01:56	408	11:35	0.0	0.0	61.2	0.0	61.2
Bawana	400	428	02:03	405	11:37	0.0	0.0	54.4	0.0	54.4
Bassi	400	425	18:00	402	19:18	0.0	0.0	4.1	0.0	4.1
Hissar	400	423	02:13	397	11:36	0.0	0.0	3.7	0.0	3.7
Moga	400	416	16:03	396	11:36	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	426	02:12	404	11:36	0.0	0.0	34.8	0.0	34.8
Nalagarh	400	433	02:04	404	11:36	0.0	0.0	58.1	8.8	58.1
Kishenpur	400	425	01:56	398	19:13	0.0	0.0	22.7	0.0	22.7
Wagoora	400	409	13:21	371	19:28	9.3	35.7	0.0	0.0	9.3
Amritsar	400	426	02:03	398	11:36	0.0	0.0	19.2	0.0	19.2
Kashipur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	425	01:59	395	11:40	0.0	0.0	29.5	0.0	29.5
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	766	16:02	740	19:23	0.0	0.8	0.0	0.0	0.0
Balia	765	771	09:10	749	19:12	0.0	0.0	0.0	0.0	0.0
Moga	765	794	16:03	752	11:37	0.0	0.0	0.0	0.0	0.0
Agra	765	787	18:15	749	11:37	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	803	02:11	768	19:20	30.6	30.6	4.2	0.0	34.8
Unnao	765	763	18:04	745	11:37	0.0	0.0	0.0	0.0	0.0
Lucknow	765	782	16:03	763	11:37	0.0	0.0	0.0	0.0	0.0
Meerut	765	810	18:02	758	11:39	0.0	0.0	10.0	0.0	10.0
Jhatikara	765	806	18:01	766	11:38	0.0	0.0	18.9	0.0	18.9
Bareilly 765 kV	765	786	18:00	757	11:37	0.0	0.0	0.0	0.0	0.0
Anta	765	780	17:58	762	11:38	0.0	0.0	0.0	0.0	0.0
Phagi	765	791	18:02	759	11:33	0.0	0.0	0.0	0.0	0.0

Note : "0" in Max / Min Col -> Telemetry Outage

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	480.94	481.64	480.35	468.02	193.15	375.28
Pong	426.72	384.05	396.64	151.67	402.60	281.22	64.36	215.01
Tehri	829.79	740.04	755.55	87.91	774.50	257.34	45.77	183.00
Koteshwar	612.50	598.50	611.03	5.20	611.35	5.46	183.00	179.94
Chamera-I	760.00	748.75	756.92	0.00	0.00	0.00	118.57	68.43
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	496.36	1.03	508.86	3.22	113.55	105.91

*** 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	182	0	-601	269	0	-2.09	6.04	3.95
Delhi	-700	-68	0	-619	533	0	-15.20	8.13	-7.06
Haryana	-161	276	0	-174	281	0	-5.06	5.36	0.30
HP	30	-2	0	132	-436	0	3.34	-2.36	0.98
J&K	397	-10	0	295	21	0	7.54	-0.94	6.59
CHD	0	-15	0	0	-30	0	0.00	-0.27	-0.27
Rajasthan	-11	570	0	-7	570	0	0.57	13.20	13.77
UP	150	0	0	276	0	0	2.10	0.00	2.10
Uttarakhand	194	59	0	194	260	0	4.65	4.34	8.99
Total	**-96**	**992**	**0**	**-505**	**1468**	**0**	**-4.14**	**33.49**	**29.35**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	5	-601	313	133	0	0
Delhi	-570	-700	714	-88	0	0
Haryana	-161	-389	299	-61	0	0
HP	243	30	95	-720	0	0
J&K	397	143	32	-219	0	0
CHD	0	0	0	-45	0	0
Rajasthan	186	-11	575	-51	0	0
UP	353	-56	0	0	0	0
Uttarakhand	194	194	358	59	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	**9.72%**
ER	**0.00%**
Simultaneous	**22.57%**

(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:

1. 400kV Meerut-Kaithal-1 again LILO at 400kV Baghpat at 1821 Hrs.
2. 125 MVAr B/R at 400kV Baghpat first time charged at 1859 Hrs.

XIV. Weather Conditions For 28.03.2016 :
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 :

Report for : 28.03.2016 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**