

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसईसी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188692

Power Supply Position in Northern Region for 13.04.2016

Date of Reporting : 14.04.2016

I. Regional Availability/Demand:

Evening Peak (20:00 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
40051	2155	42205	50.02	36491	477	36968	50.08	848.7	30.66

* 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 (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	49.26	5.70		54.96	55.10	55.60	0.50	110.56	0.00
Haryana	30.50	0.27		30.77	83.35	82.76	-0.59	113.53	0.00
Rajasthan	120.18	0.55	10.80	131.53	51.27	53.48	2.21	185.01	0.00
Delhi	10.78			10.78	66.90	65.51	-1.39	76.30	0.01
UP	160.61	3.74		164.34	92.14	92.63	0.50	256.98	20.70
Uttarakhand		9.87		9.87	25.75	26.82	1.07	36.69	0.00
HP		7.03		7.03	15.19	16.44	1.25	23.47	0.00
J & K		12.81	0.00	12.81	26.88	29.38	2.50	42.19	9.95
Chandigarh				0.00	3.92	3.96	0.27	3.96	0.00
Total	371.32	39.97	10.80	422.09	420.50	426.59	6.33	848.67	30.66

* 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 (20:00 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	4854	0	128	-235	4401	0	245	-578	5115
Haryana	6532	0	157	706	4578	0	218	96	6532
Rajasthan	7869	0	-170	334	7700	0	210	424	8579
Delhi	3708	0	-83	-246	2993	0	9	-457	3861
UP	12055	1640	-326	225	13027	200	202	1525	13027
Uttarakhand	1763	0	13	581	1327	0	82	584	1763
HP	1013	0	-135	-301	771	0	66	141	1220
J&K	2058	515	73	100	1571	277	143	2	2058
Chandigarh	197	0	-3	-10	124	0	2	0	197
Total	40051	2155	-345	1155	36491	477	1176	1737	40051

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

Diversity is 1.06

III. Regional Entities :

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

A. NTPC	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
		Singrauli STPS (5*200+2*500)	2000	915	1044	1028	21.70	904	20.71
	Rihand I STPS (2*500)	1000	737	796	801	16.33	680	16.05	0.28
	Rihand II STPS (2*500)	1000	950	1031	981	20.90	871	20.91	-0.01
	Rihand III STPS (2*500)	1000	947	1030	982	21.56	898	21.60	-0.04
	Dadri I STPS (4*210)	840	815	610	613	13.45	560	13.74	-0.29
	Dadri II STPS (2*490)	980	485	495	354	8.47	353	8.87	-0.40
	Unchahar I TPS (2*210)	420	164	238	147	3.87	161	3.74	0.13
	Unchahar II TPS (2*210)	420	202	211	186	4.15	173	4.07	0.08
	Unchahar III TPS (1*210)	210	202	211	187	3.96	165	4.02	-0.06
	ISTPP (Jhajjhar) (3*500)	1500	950	790	600	15.06	627	15.36	-0.31
	Dadri GPS (4*130.19+2*154.51)	830	790	379	366	8.60	358	8.75	-0.15
	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	643	148	154	3.47	144	3.50	-0.03
	Dadri Solar(5)	5	1	0	0	0.03	1	0.03	0.00
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	0.00
	Singrauli Solar(15)	15	3	0	0	0.07	3	0.06	0.01
	KHEP(4*200)	800	872	861	0	2.83	118	2.70	0.13
	Sub Total (A)	12112	8943	7844	6399	144	6020	144	0
B. NPC	NAPS (2*220)	440	400	431	444	9.59	399	9.60	-0.01
	RAPS- B (2*220)	440	373	415	423	8.99	375	8.95	0.04
	RAPS- C (2*220)	440	415	442	448	9.62	401	9.96	-0.34
	Sub Total (B)	1320	1188	1288	1315	28.20	1175	28.51	-0.31
C. NHPC	Chamera I HPS (3*180)	540	535	367	0	4.18	174	4.00	0.18
	Chamera II HPS (3*100)	300	300	202	0	2.60	108	2.44	0.15
	Chamera III HPS (3*77)	231	231	232	0	1.51	63	1.39	0.12
	Bairasuil HPS(3*60)	180	179	186	0	0.26	11	2.55	-2.29
	Salal-HPS (6*115)	690	368	517	349	9.63	401	8.85	0.78
	Tanakpur-HPS (3*31.4)	94	16	16	15	0.43	18	0.38	0.04
	Uri-I HPS (4*120)	480	474	461	472	11.48	479	11.38	0.10
	Uri-II HPS (4*60)	240	224	226	226	5.39	225	5.37	0.01
	Dhauliganga-HPS (4*70)	280	280	285	0	1.05	44	0.91	0.14
	Dulhasti-HPS (3*130)	390	389	395	0	3.49	145	3.14	0.35
	Sewa-II HPS (3*40)	120	119	129	71	2.45	102	2.40	0.05
	Parbati 3 (4*130)	520	139	259	0	0.59	25	0.61	-0.02
	Sub Total (C)	4065	3255	3277	1133	43	1795	43	0
D. SJVNL	NJPC (6*250)	1500	1605	1292	0	7.59	316	7.50	0.09
	Rampur HEP (6*68.67)	412	375	372	0	2.05	85	1.99	0.05
	Sub Total (D)	1912	1980	1664	0	9.64	401	9.49	0.14
E. THDC	Tehri HPS (4*250)	1000	411	407	0	4.38	182	4.40	-0.02
	Koteshwar HPS (4*100)	400	92	102	95	2.23	93	2.20	0.03
	Sub Total (E)	1400	503	509	95	6.60	275	6.60	0.00
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	437	704	387	10.78	449	10.49	0.30
	Dehar HPS (6*165)	990	212	162	165	5.32	222	5.08	0.24
	Pong HPS (6*66)	396	56	162	0	1.27	53	1.33	-0.06
	Sub Total (F)	2765	704	1028	552	17.38	724	16.90	0.48
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*130)	192	0	0	28	0.80	33	0.82	-0.02
	KARCHAM WANGTOO HPS(IPP)	1000	0	680	150	4.06	169	4.08	-0.02
	Malana Stg-II HPS (2*50)	100	0	0	0	0.40	17	0.37	0.03
	Shree Cement TPS (2*150)	300	0	291	292	6.97	291	7.03	-0.06
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.32	13	0.35	-0.03
	Sub Total (G)	1662	0	971	470	12.55	523	12.64	-0.09
H. Total Regional Entities (A-G)		25237	16574	16581	9964	261.91	10913	261.74	0.18

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	204	3.73	156	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	0.00	0	
	Goindwal(GVK) (2*270)	540	273	276	5.94	248	
	Rajpura (2*700)	1400	760	1320	25.07	1045	
	Talwandi Saboo (3*660)	1980	616	614	14.51	605	
	Thermal (Total)	6560	1809	2414	49.26	2052	
	Total Hydro	1000	280	337	5.70	237	
	Total Punjab	7560	2089	2751	54.96	2290	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	218	213	5.14	214
DCRTPP (Yamuna nagar) (2*300)		600	523	456	11.21	467	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	180	159	4.19	175	
RGTPP (khedar) (IPP) (2*600)		1200	415	391	9.96	415	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4944	1336	1219	30.50	1271	
Total Hydro		62	0	16	0.27	11	
Total Haryana		5006	1336	1235	30.77	1282	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	865	871	21.18	882
	suratgarh TPS (6*250)	1500	191	197	4.68	195	
	Chabra TPS (4*250)	1000	820	865	20.67	861	
	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	203	205	4.87	203	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingsar (NLC) (2*125)	250	65	63	1.32	55	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	700	803	16.97	707	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	909	891	22.08	920	
	Kawai(Adani) (2*660)	1320	1237	1172	28.41	1184	
	Thermal (Total)	8876	4990	5067	120	5007	
	Total Hydro	550	2	0	0.55	23	
	Wind power	3214	114	337	7.27	303	
	Biomass	99	18	18	0.43	18	
	Solar	730	0	0	3.10	129	
	Renewable/Others (Total)	4043	132	355	10.80	450	
	Total Rajasthan	13469	5124	5422	131.53	5480	
	UP	Anpara TPS (3*210+2*500)	1630	1235	1233	28.37	1182
		Obra TPS (2*50+2*94+5*200)	1194	298	410	8.80	367
		Paricha TPS (2*110+2*220+2*250)	1160	992	1002	21.00	875
Panki TPS (2*105)		210	0	0	0.00	0	
Harduaganj TPS (1*60+1*105+2*250)		665	524	528	11.60	483	
Tanda TPS (NTPC) (4*110)		440	392	401	8.54	356	
Roza TPS (IPP) (4*300)		1200	1080	1099	22.80	950	
Anpara-C (IPP) (2*600)		1200	1080	1080	22.90	954	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	391	405	7.80	325	
Anpara-D(2*500)		1000	0	0	1.20	50	
Lalitpur TPS(3*660)		1980	483	511	9.40	392	
Bara(2*660)		1320	493	459	11.00	458	
Thermal (Total)		12449	6968	7128	153	6392	
Vishnuparyag HPS (IPP)(4*110)		440	81	76	1.87	78	
Alakanada(4*82.5)		330	0	76	0.98	41	
Other Hydro		527	45	27	0.89	37	
Cogeneration		981	300	300	7.20	300	
Total UP	14727	7394	7607	164	6848		
Uttarakhand	Total Hydro	1398	494	227	9.87	411	
	Total Uttarakhand	1398	494	227	9.87	411	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	35	34	0.84	35	
	Pragati Gas Turbine (2x104+ 1x122)	330	265	265	6.92	288	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	0	0	0.00	0	
	Badarpur TPS (NTPC) (3*95+2*210)	705	329	330	3.02	126	
	Thermal (Total)	2917	629	629	10.78	449	
	Total Delhi	2917	629	629	10.78	449	
HP	Baspa HPS (IPP) (3*100)	300	0	0	0.79	33	
	Malana HPS (IPP) (2*43)	86	44	0	0.40	17	
	Other Hydro	878	259	228	5.85	244	
	Total HP	1264	303	228	7.03	293	
J & K	Baglihar HPS (IPP) (3*150+2*150)	750	440	440	10.56	440	
	Other Hydro/IPP	560	118	82	2.25	94	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	558	522	12.81	534	
Total State Control Area Generation		47841	17927	18620	422.09	17587	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7298	8470	173.63	7234	
Total Regional Availability(Gross)		73078	41806	37055	857.62	35734	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8019	1958	84.78	3532
State Control Area Hydro	6881	1763	1509	40	1665
Total Regional Hydro	19115	9782	3467	124.74	5198

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 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)	50	50	250	0	2.08	0.00	2.08		2.08
765 KV Gwalior-Agra (D/C)	2435	3012	3143	0	57.88	0.00	57.88		57.88
400 KV Zerda-Kankroli	-106	-112	0	350	0.00	4.61	-4.61		-4.61
400 KV Zerda-Bhinmal	-45	-61	3	297	0.00	3.03	-3.03		-3.03
220 KV Auraiya-Malanpur	-73	-10	0	98	0.00	1.09	-1.09		-1.09
220 KV Badod-Kota/Morak	-22	6	36	74	0.00	0.69	-0.69		-0.69
Mundra-Mohinderghar(HVDC Bipole)	2203	2204	2212	0	53.20	0.00	53.20		53.20
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00		0.00
765 kV Phagi-Gwalior (D/C)	685	942	983	568	19.91	0.00	19.91		19.91
Sub Total WR	5127	6031			133.07	9.41	123.66		

Pusauli Bypass/HVDC	200	200	200	0	4.84	0.00	4.84
400 KV MZP- GKP (D/C)	116	212	312	22	3.27	0.00	3.27
400 KV Patna-Balia(D/C) X 2	345	455	511	0	8.88	0.00	8.88
400 KV B'Sharif-Balia (D/C)	101	180	218	0	3.66	0.00	3.66
765 KV Gaya-Balia	254	328	354	0	3.77	0.00	3.77
765 KV Gaya-Varanasi -1	303	212	561	0	7.82	0.00	7.82
220 KV Pusauli-Sahupuri	177	194	212	0	3.76	0.00	3.76
132 KV K'nasa-Sahupuri	0	0	0	0	0.96	0.00	0.96
132 KV Son Ngr-Rihand	-28	-28	0	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	-101	-143	118	222	0.00	1.57	-1.57
400 KV Barh -GKP (D/C)	218	262	288	0	6.86	0.00	6.86
400 kvB'Sharif - Varanasi (D/C)	100	80	207	64	0.00	1.83	-1.83
Sub Total ER	1685	1952			43.80	3.90	39.90
+/- 800 KV BiswanathCharialli-Agra	486	487	487	0	10.07	0.00	10.07
Sub Total NER	486	487			10.07	0.00	10.07
Total IR Exch	7298	8470			186.94	13.31	173.63

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
34.59	0.30	34.89	2.90	-0.70	0.00	26.05	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
37.79	138.39	176.18	49.97	123.66	173.63	12.18	-14.74	-2.56

V(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-27	-31	0	34	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	0.68	7.11	46.82	69.97	16.86	6.17	0.47	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.25	10.03	49.75	21.07	50.00	0.048	0.069	50.20	0.00	30.03

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index (% of)
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	404	07:18	398	00:30	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	423	17:03	403	02:08	0.0	0.0	5.4	0.0	5.4
Bareilly(PG)400kV	400	417	17:32	402	10:54	0.0	0.0	0.0	0.0	0.0
Kanpur	400	419	08:04	404	19:11	0.0	0.0	0.0	0.0	0.0
Dadri	400	421	08:03	405	19:13	0.0	0.0	0.1	0.0	0.1
Ballabgarh	400	427	08:01	409	14:36	0.0	0.0	35.5	0.0	35.5
Bawana	400	425	08:04	408	19:10	0.0	0.0	30.3	0.0	30.3
Bassi	400	420	04:01	402	19:36	0.0	0.0	0.0	0.0	0.0
Hissar	400	420	01:59	404	19:12	0.0	0.0	0.0	0.0	0.0
Moga	400	420	01:59	407	19:12	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	428	02:00	406	19:12	0.0	0.0	32.1	0.0	32.1
Nalagarh	400	434	02:00	413	19:10	0.0	0.0	68.9	4.5	68.9
Kishenpur	400	422	03:59	400	19:22	0.0	0.0	3.1	0.0	3.1
Wagoor	400	410	13:01	376	19:24	10.5	29.6	0.0	0.0	10.5
Amritsar	400	430	02:00	411	14:42	0.0	0.0	38.4	0.0	38.4
Kashipur	400	420	21:45	413	00:40	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	424	21:55	408	12:11	0.0	0.0	2.3	0.0	2.3
Rishikesh	400	415	21:56	387	09:50	0.0	5.6	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)
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	781	08:05	744	19:13	0.0	0.0	0.0	0.0	0.0
Balia	765	780	17:03	753	02:07	0.0	0.0	0.0	0.0	0.0
Moga	765	801	18:00	778	19:12	0.0	0.0	0.0	0.0	0.0
Agra	765	790	07:01	760	14:47	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	798	21:50	778	11:40	0.0	0.0	0.0	0.0	0.0
Unnao	765	763	17:38	744	19:12	0.0	0.0	0.0	0.0	0.0
Lucknow	765	784	13:01	762	01:11	0.0	0.0	0.0	0.0	0.0
Meerut	765	806	17:48	776	12:12	0.0	0.0	11.9	0.0	11.9
Jhatikara	765	800	07:44	769	14:37	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Anta	765	772	02:00	760	00:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	781	03:59	760	14:31	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	479.10	441.00	481.67	495.33	188.25	326.38
Pong	426.72	384.05	395.83	141.12	403.89	312.39	45.05	99.28
Tehri	829.79	740.04	747.75	37.98	768.45	194.03	40.33	161.00
Koteshwar	612.50	598.50	610.87	4.95	610.89	4.95	161.00	146.67
Chamera-I	760.00	748.75	755.22	0.00	0.00	0.00	129.68	114.73
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	496.10	2.22	515.88	1.66	118.40	64.69

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	15	-593	0	-390	155	0	-1.26	1.00	-0.26
Delhi	-328	-129	0	-177	-69	0	-5.60	-0.75	-6.35
Haryana	292	-196	0	418	289	0	6.93	-0.69	6.24
HP	-176	317	0	-75	-226	0	-2.61	4.57	1.96
J&K	3	-1	0	-71	172	0	-0.42	1.21	0.79
CHD	0	0	0	0	-10	0	0.00	0.10	0.10
Rajasthan	-8	432	0	-4	338	0	-0.17	9.95	9.79
UP	356	1169	0	225	0	0	5.59	5.42	11.01
Uttarakhand	243	341	0	49	533	0	4.57	9.45	14.02
Total	397	1340	0	-25	1181	0	7.03	30.26	37.28

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	15	-390	252	-625	0	0
Delhi	-177	-404	196	-172	0	0
Haryana	494	165	307	-568	0	0
HP	-75	-176	439	-490	0	0
J&K	3	-71	172	-26	0	0
CHD	0	0	25	-20	0	0
Rajasthan	-4	-8	562	-111	0	0
UP	464	153	1169	0	0	0
Uttarakhand	272	49	574	302	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	12.85%

(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 13.04.2016 :
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
0.00
0.00

XVII. Tripping of lines in pooling stations :

XVIII. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.