

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसईसी वी पूर्व स्वामित्व प्राप्त गवर्नर कंत्राली)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 28.04.2016

Date of Reporting : 29.04.2016



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
43600	1753	45353	50.04	40385	2470	42855	50.04	967.1	28.41

* 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)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	57.23	7.59		64.82	60.32	61.11	0.79	125.93	0.00
Haryana	49.34	0.34		49.68	91.91	89.86	-2.05	139.54	0.00
Rajasthan	137.30	0.11	4.99	142.41	49.77	50.12	0.35	192.52	0.40
Delhi	26.34			26.34	73.63	72.72	-0.91	99.05	0.32
UP	185.46	5.77		191.23	109.10	110.50	1.40	301.73	16.19
Uttarakhand		7.70		7.70	28.02	29.12	1.11	36.82	1.65
HP		8.76		8.76	14.51	15.46	0.95	24.22	0.44
J & K		12.81	0.00	12.81	25.74	29.45	3.71	42.27	9.40
Chandigarh				0.00	4.87	5.05	0.27	5.05	0.00
Total	455.67	43.08	4.99	503.74	457.86	463.39	5.62	967.13	28.41

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

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

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	5908	0	-9	-261	4956	0	-53	-87	5908
Haryana	7093	0	-220	375	6501	0	-144	831	7093
Rajasthan	8088	0	184	-263	8339	0	-128	344	8749
Delhi	4091	0	-108	-136	3819	23	-54	-347	4585
UP	13419	1275	-74	357	12203	2100	74	705	13419
Uttarakhand	1842	0	126	487	1559	0	66	680	1842
HP	1018	0	-168	-559	866	0	-181	-90	1198
J&K	1911	478	44	7	1964	347	525	-34	1964
Chandigarh	231	0	-18	0	179	0	-19	0	256
Total	43600	1753	-242	7	40385	2470	86	2002	43600

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

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III. Regional Entities:

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1291	1505	1225	31.93	1330	30.99	0.94
Rihand I STPS (2*500)	1000	797	865	804	19.10	796	18.98	0.12
Rihand II STPS (2*500)	1000	948	1002	887	22.68	945	22.64	0.04
Rihand III STPS (2*500)	1000	945	867	894	22.46	936	22.58	-0.12
Dadri I STPS (4*210)	840	805	857	863	17.58	733	17.96	-0.38
Dadri II STPS (2*490)	980	501	473	497	11.44	477	11.87	-0.43
Unchahar I TPS (2*210)	420	135	150	156	3.41	142	3.19	0.22
Unchahar II TPS (2*210)	420	188	215	159	4.31	179	4.41	-0.11
Unchahar III TPS (1*210)	210	198	220	205	4.55	190	4.66	-0.11
ISTPP (Jhajjhar) (3*500)	1500	950	991	921	18.97	791	19.24	-0.27
Dadri GPS (4*130,19+2*154.51)	830	766	333	385	8.32	347	8.58	-0.26
Anta GPS (3*88.71+1*153.2)	419	265	0	0	0.00	0	0.02	-0.02
Auraiya GPS (4*111.19+2*109.30)	663	623	144	143	3.43	143	3.48	-0.05
Dadri Solar(5)	5	1	0	0	0.02	1	0.02	0.00
Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	0.00
Singrauli Solar(15)	15	2	0	0	0.00	0	0.05	-0.05
KHEP(4*200)	800	712	600	0	2.75	115	2.80	-0.05
Sub Total (A)	12112	9130	8222	7139	171	7125	172	-1
B. NPC								
NAPS (2*220)	440	390	423	433	9.32	388	9.36	-0.04
RAPS- B (2*220)	440	368	411	416	8.87	370	6.50	2.37
RAPS- C (2*220)	440	415	441	445	9.51	396	9.96	-0.45
Sub Total (B)	1320	1173	1275	1294	27.70	1154	25.82	1.88
C. NHPC								
Chamera I HPS (3*180)	540	535	545	0	2.74	114	2.60	0.15
Chamera II HPS (3*100)	300	300	306	0	3.27	136	3.13	0.14
Chamera III HPS (3*77)	231	231	116	0	2.03	85	1.94	0.08
Bairasul HPS(3*60)	180	179	184	0	2.10	88	2.05	0.05
Salal-HPS (6*115)	690	293	500	143	7.86	327	7.03	0.83
Tanakpur-HPS (3*31.4)	94	17	28	16	0.50	21	0.40	0.10
Uri-I HPS (4*120)	480	475	474	473	11.49	479	11.40	0.09
Uri-II HPS (4*80)	240	237	241	241	5.75	240	5.64	0.11
Dhauliganga-HPS (4*70)	280	280	140	0	1.45	60	1.33	0.12
Dulhasti-HPS (3*130)	390	387	390	402	6.51	271	6.20	0.32
Sewa-II HPS (3*40)	120	119	126	0	2.74	114	2.70	0.04
Parbati 3 (4*130)	520	294	264	0	1.20	50	1.16	0.04
Sub Total (C)	4065	3347	3314	1275	48	1985	46	2
D.SJVNL								
NJPC (6*250)	1500	1605	1276	499	11.51	479	11.28	0.22
Rampur HEP (6*68.67)	412	375	331	142	3.25	136	3.09	0.16
Sub Total (D)	1912	1980	1607	641	14.76	615	14.37	0.39
E. THDC								
Tehri HPS (4*250)	1000	512	128	258	2.61	109	2.60	0.01
Koteswar HPS (4*100)	400	57	101	0	1.43	59	1.38	0.05
Sub Total (E)	1400	569	229	258	4.04	168	3.98	0.06
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	643	1164	367	15.53	647	15.44	0.09
Dehar HPS (6*165)	990	268	660	300	6.80	283	6.44	0.37
Pong HPS (6*68)	396	36	159	0	0.92	38	0.87	0.05
Sub Total (F)	2765	948	1983	667	23.26	969	22.75	0.50
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*1000)	192	0	0	0	1.16	48	1.10	0.06
KARCHAM WANGTOO HPS(IPP) (2*1000)	1000	0	680	210	5.61	234	5.76	-0.15
Malana Stg-II HPS (2*50)	100	0	111	25	0.53	22	0.56	-0.03
Shree Cement TPS (2*150)	300	0	288	289	6.96	290	6.98	-0.03
Budhil HPS(IPP) (2*35)	70	0	35	0	0.55	23	0.55	0.00
Sub Total (G)	1662	0	1113	632	14.80	617	14.96	-0.16
H. Total Regional Entities (A-G)	25237	17148	17743	11906	303.18	12632	298.97	4.20

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	210	160	3.62	151
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	120	100	2.41	101
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	464	365	9.66	402
	Goindwal(GVK) (2*270)	540	0	0	0.00	0
	Rajpura (2*700)	1400	1320	1320	31.62	1317
	Talwandi Saboo (3*660)	1980	458	614	9.92	414
	Thermal (Total)	6560	2572	2559	57.23	2385
	Total Hydro	1000	324	350	7.59	316
	Total Punjab	7560	2896	2909	64.82	2701
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	461	407	9.90
DCRTPP (Yamuna nagar) (2*300)		600	267	274	6.18	257
Faridabad GPS (NTPC)(2*137.75+1*156)		432	181	0	1.68	70
RGTPP (khedar) (IPP) (2*600)		1200	1137	1110	22.00	917
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	378	377	9.58	399
Thermal (Total)		4944	2424	2168	49.34	2056
Total Hydro		62	9	14	0.34	14
Total Haryana		5006	2433	2182	49.68	2070
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	728	862	20.56
	suratgarh TPS (6*250)	1500	1040	964	24.55	1023
	Chabra TPS (4*250)	1000	708	618	16.65	694
	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	202	208	4.81	200
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0
	Barsingsar (NLC) (2*125)	250	0	0	0.00	0
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	721	841	17.13	714
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	933	996	25.19	1050
	Kawai(Adani) (2*660)	1320	1172	1196	28.42	1184
	Thermal (Total)	8876	5504	5685	137	5721
	Total Hydro	550	0	0	0.11	5
	Wind power	3214	34	463	4.44	185
	Biomass	99	20	20	0.47	20
	Solar	730	0	0	0.09	4
Renewable/Others (Total)	4043	54	483	4.99	208	
Total Rajasthan	13469	5558	6168	142.41	5934	
UP	Anpara TPS (3*210+2*500)	1630	1216	1225	29.30	1221
	Obra TPS (2*50+2*94+5*200)	1194	600	590	14.19	591
	Paricha TPS (2*110+2*220+2*250)	1160	968	991	22.65	944
	Panki TPS (2*105)	210	54	68	1.32	55
	Harduaqani TPS (1*60+1*105+2*250)	665	550	549	13.21	550
	Tanda TPS (NTPC) (4*110)	440	390	390	9.39	391
	Roza TPS (IPP) (4*300)	1200	1071	1103	25.78	1074
	Anpara-C (IPP) (2*600)	1200	1080	1076	25.80	1075
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	403	405	9.63	401
	Anpara-D(2*500)	1000	455	247	7.72	322
	Lalitpur TPS(3*660)	1980	508	508	10.94	456
	Baral(2*660)	1320	498	0	10.72	447
	Thermal (Total)	12449	7793	7152	181	7527
	Vishnuparyag HPS (IPP)(4*110)	440	93	85	2.15	90
	Alaknanda(4*82.5)	330	75	0	1.14	48
	Other Hydro	527	53	205	2.48	103
	Cogeneration	981	200	200	4.80	200
Total UP	14727	8214	7642	191	7968	
Uttarakhand	Total Hydro	1398	420	270	7.70	321
	Total Uttarakhand	1398	420	270	7.70	321
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	31	32	6.61	276
	Praagati Gas Turbine (2x104+ 1x122)	330	291	275	6.61	276
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	256	253	6.15	256
	Badarpur TPS (NTPC) (3*95+2*210)	705	326	324	6.96	290
	Thermal (Total)	2917	904	884	26.34	1097
	Total Delhi	2917	904	884	26.34	1097
HP	Baspa HPS (IPP) (3*100)	300	0	28	1.59	66
	Malana HPS (IPP) (2*43)	86	57	20	0.56	24
	Other Hydro	878	313	248	6.61	275
	Total HP	1264	370	296	8.76	365
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	21353	20872	503.74	20989
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6779	8058	179.99	7499
Total Regional Availability(Gross)		73078	45875	40836	986.90	41121

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8523	3183	99.73	4155
State Control Area Hydro	6881	1902	1742	43	1795
Total Regional Hydro	19115	10425	4925	142.80	5950

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

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhyachal(HVDC B/B)	250	250	250	0	6.04	0.00	6.04
765 KV Gwalior-Agra (D/C)	3065	3426	2560	0	77.79	0.00	77.79
400 KV Zerda-Kankroli	59	-50	86	202	0.00	1.31	-1.31
400 KV Zerda-Bhinmal	115	14	171	126	0.53	0.00	0.53
220 KV Auraiya-Malanpur	-20	18	18	22	0.42	0.00	0.42
220 KV Badod-Kota/Morak	39	82	57	5	1.21	0.00	1.21
Mundra-Mohindergerah(HVDC Bipole)	1249	1250	2505	0	35.02	0.00	35.02
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	762	864	515	0	22.23	0.00	22.23

Sub Total WR	5509	5854			143.24	1.31	141.93
Pusauli Bypass/HVDC	300	300	300	0	7.19	0.00	7.19
400 KV MZP- GKP (D/C)	-38	20	44	200	0.00	1.06	-1.06
400 KV Patna-Balia(D/C) X 2	68	549	561	0	7.96	0.00	7.96
400 KV B Sharif-Balia (D/C)	10	358	358	0	4.27	0.00	4.27
765 KV Gaya-Balia	181	419	426	0	3.85	0.00	3.85
765 KV Gaya-Varanasi (D/C)	-37	-84	43	197	0.00	0.93	-0.93
220 KV Pusauli-Sahupuri	0	0	0	0	0.57	0.00	0.57
132 KV K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-27	-24	0	30	0.00	0.52	-0.52
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-218	-289	0	289	0.00	5.29	-5.29
400 KV Barh -GKP (D/C)	302	284	364	0	6.90	0.00	6.90
400 kvB Sharif - Varanasi (D/C)	229	171	300	0	2.96	0.00	2.96
Sub Total ER	770	1704			34.17	7.80	26.37
+/- 800 KV BiswanathCharialli-Agra	500	500	500	0	11.69	0.00	11.69
Sub Total NER	500	500			11.69	0.00	11.69
Total IR Exch	6779	8058			189.10	9.11	179.99

VB). 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	Through ER	Through WR	Through ER	Through WR
40.79	0.35	41.13	0.61	-1.47	3.25	14.54	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
44.99	129.94	174.93	38.06	141.93	179.99	-6.93	11.99	5.06

VC). 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	-31	-33	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	1.19	11.86	51.08	65.15	18.83	3.91	0.29	0.00

←----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
50.24	18.01	49.71	15.24	49.99	0.054	0.073	0.00	0.00	34.85

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	407	20:03	401	3:04	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	13:02	398	22:13	0.0	0.0	0.1	0.0	0.1
Bareilly(PG)400kV	400	416	13:03	392	22:14	0.0	0.0	0.0	0.0	0.0
Kanpur	400	414	13:01	396	0:06	0.0	0.0	0.0	0.0	0.0
Dadri	400	417	4:02	400	22:15	0.0	0.0	0.0	0.0	0.0
Ballaabgarh	400	422	4:02	401	22:16	0.0	0.0	9.3	0.0	9.3
Bawana	400	420	5:46	401	22:15	0.0	0.0	0.0	0.0	0.0
Bassi	400	420	18:15	392	0:04	0.0	0.0	0.0	0.0	0.0
Hissar	400	417	5:46	396	22:17	0.0	0.0	0.0	0.0	0.0
Moga	400	417	13:23	400	0:04	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	426	13:19	401	22:16	0.0	0.0	6.8	0.0	6.8
Nalagarh	400	428	13:20	407	19:39	0.0	0.0	22.1	0.0	22.1
Kishenpur	400	418	18:00	397	22:15	0.0	0.0	0.0	0.0	0.0
Wagoora	400	411	18:00	379	22:17	0.1	25.2	0.0	0.0	0.1
Amritsar	400	422	13:19	404	19:30	0.0	0.0	2.3	0.0	2.3
Kashipur	400	420	13:03	408	19:33	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	419	4:02	403	8:50	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	409	13:03	380	19:40	0.0	14.5	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	765	13:01	728	0:05	0.0	16.4	0.0	0.0	0.0
Balia	765	777	13:01	739	22:17	0.0	1.5	0.0	0.0	0.0
Moga	765	797	13:01	763	0:06	0.0	0.0	0.0	0.0	0.0
Agra	765	786	18:30	740	0:05	0.0	0.5	0.0	0.0	0.0
Bhiwani	765	795	13:02	759	0:05	0.0	0.0	0.0	0.0	0.0
Unnao	765	764	13:01	730	22:17	0.0	17.7	0.0	0.0	0.0
Lucknow	765	786	13:02	745	22:14	0.0	0.0	0.0	0.0	0.0
Meerut	765	803	13:01	760	0:07	0.0	0.0	1.5	0.0	1.5
Jhatikara	765	794	13:02	756	22:15	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	785	13:03	741	22:17	0.0	0.2	0.0	0.0	0.0
Anta	765	781	18:16	754	0:00	0.0	0.0	0.0	0.0	0.0
Phagi	765	788	18:30	732	13:35	0.0	0.1	0.0	0.0	0.0

Note : 'Q' 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	476.02	374.70	484.26	569.03	202.81	543.63
Pong	426.72	384.05	394.50	116.59	405.08	344.07	39.53	72.07
Tehri	829.79	740.04	741.60	7.48	762.90	145.70	69.99	101.00
Koteswar	612.50	598.50	607.46	3.32	610.90	5.00	101.00	94.10
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	110.89	75.70
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	498.44	2.56	520.83	2.57	142.51	134.78

* 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	22	-108	0	-403	142	0	-1.32	1.13	-0.19
Delhi	-116	-232	0	-75	-60	0	-1.85	-0.66	-2.51
Haryana	529	303	0	81	294	0	2.08	5.32	7.40
HP	-303	213	0	-151	-408	0	-4.84	-0.08	-4.93
J&K	-107	73	0	-107	114	0	-2.56	1.57	-0.99
CHD	0	0	0	0	0	0	0.00	0.34	0.34
Rajasthan	-62	406	0	-58	-205	0	-1.46	5.31	3.85
UP	467	238	0	357	0	0	8.52	1.85	10.37
Uttarakhand	29	512	139	29	312	146	5.93	8.34	14.27
Total	459	1404	139	-328	189	146	4.49	23.12	27.62

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	22	-403	163	-160	0	0
Delhi	-51	-126	379	-372	0	0
Haryana	529	-552	362	-152	0	0
HP	-151	-303	221	-567	0	0
J&K	-107	-107	185	-26	0	0
CHD	0	0	79	0	0	0
Rajasthan	-58	-62	438	-527	0	0
UP	530	269	1463	0	0	0
Uttarakhand	640	29	512	1	146	133

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	7.64%
ER	0.00%
Simultaneous	9.72%

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

WR	29.17%
ER	0.00%
Simultaneous	32.99%

(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 28.04.2016 :
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.