

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एनएसईसी से पूर्व रजिस्ट्रार प्राइवेट लिमिटेड)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 29.04.2016

Date of Reporting : 30.04.2016



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
43358	1805	45163	50.04	40542	1730	42271	50.04	976.5	17.69

* 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	60.58	8.00		68.58	57.82	58.91	1.09	127.49	0.00
Haryana	51.41	0.32		51.73	90.37	89.36	-1.02	141.09	0.00
Rajasthan	138.07	0.00	7.71	145.78	48.84	50.69	1.84	196.46	0.00
Delhi	18.09			18.09	75.10	74.60	-0.49	92.69	0.09
UP	189.80	4.83		194.62	114.92	116.89	1.97	311.51	4.62
Uttarakhand		9.02		9.02	25.77	27.31	1.53	36.33	2.92
HP		8.73		8.73	12.80	14.56	1.76	23.29	0.61
J & K		12.71	0.00	12.71	25.44	29.87	4.43	42.57	9.46
Chandigarh				0.00	5.22	5.08	0.27	5.08	0.00
Total	457.94	43.60	7.71	509.25	456.27	467.26	11.40	976.51	17.69

* 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	5649	0	-198	-520	4929	0	71	-236	5678
Haryana	6869	0	-276	663	6344	0	72	796	7424
Rajasthan	8110	0	304	33	8256	0	-30	39	9096
Delhi	4174	0	-32	-285	3978	0	131	-309	4668
UP	13789	1265	-140	357	13318	1050	176	473	13789
Uttarakhand	1637	75	-120	447	1203	260	31	354	1719
HP	1041	0	21	-545	703	131	348	-459	1204
J&K	1859	465	155	16	1635	289	209	-59	1886
Chandigarh	231	0	-21	0	175	0	13	0	263
Total	43358	1805	-307	165	40542	1730	1021	599	44361

* STOA figures are at sellers boundary & PX figures are at regional boundary.

figures may not be at simultaneous hour.

Diversity is 1.03

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	1382	1508	1419	33.91	1413	32.97	0.94
Rihand I STPS (2*500)	1000	792	756	877	18.71	780	18.63	0.08
Rihand II STPS (2*500)	1000	948	905	1025	22.33	930	22.43	-0.10
Rihand III STPS (2*500)	1000	945	863	1009	22.22	926	22.47	-0.25
Dadri I STPS (4*210)	840	805	600	789	14.68	612	15.82	-1.14
Dadri II STPS (2*490)	980	923	802	860	19.95	831	21.69	-1.74
Unchahar I TPS (2*210)	420	247	319	155	5.90	246	5.85	0.05
Unchahar II TPS (2*210)	420	199	184	217	4.62	193	4.67	-0.05
Unchahar III TPS (1*210)	210	199	205	216	4.61	192	4.68	-0.07
ISTPP (Jhajjar) (3*500)	1500	950	814	961	18.52	772	18.94	-0.42
Dadri GPS (4*130.19+2*154.51)	830	767	327	330	7.95	331	8.25	-0.30
Anta GPS (3*88.71+1*153.2)	419	292	38	0	0.22	9	0.20	0.02
Auraiya GPS (4*111.19+2*109.30)	663	620	140	154	3.36	140	3.60	-0.24
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	0.01	0	0.06	-0.05
KHEP(4*200)	800	872	625	0	2.85	119	2.70	0.15
Sub Total (A)	12112	9946	8086	8012	180	7496	183	-3
B. NPC								
NAPS (2*220)	440	386	413	434	9.27	386	9.26	0.01
RAPS- B (2*220)	440	367	412	415	8.94	372	6.50	2.44
RAPS- C (2*220)	440	415	442	443	9.48	395	9.96	-0.48
Sub Total (B)	1320	1168	1267	1292	27.69	1154	25.72	1.97
C. NHPC								
Chamera I HPS (3*180)	540	535	544	0	2.59	108	2.39	0.20
Chamera II HPS (3*100)	300	300	303	202	3.57	149	3.43	0.14
Chamera III HPS (3*77)	231	231	211	0	2.05	85	1.97	0.07
Bairasuli HPS(3*60)	180	179	183	61	2.34	98	2.23	0.12
Salal-HPS (6*115)	690	317	518	345	8.57	357	7.55	1.02
Tanakpur-HPS (3*31.4)	94	16	15	15	0.47	20	0.38	0.09
Uri-I HPS (4*120)	480	475	473	473	11.40	475	11.40	0.00
Uri-II HPS (4*80)	240	237	241	241	5.75	240	5.69	0.06
Dhauliganga-HPS (4*70)	280	280	281	0	1.28	53	1.19	0.09
Dulhasti-HPS (3*130)	390	387	396	398	6.48	270	6.20	0.28
Sewa-II HPS (3*40)	120	119	130	0	0.64	27	0.70	-0.06
Parbati 3 (4*130)	520	260	263	0	1.20	50	1.16	0.04
Sub Total (C)	4065	3337	3427	1736	46	1931	44	2
D.SJVNL								
NJPC (6*250)	1500	1605	1048	0	10.39	433	10.22	0.17
Rampur HEP (6*68.67)	412	375	297	0	2.83	118	2.82	0.00
Sub Total (D)	1912	1980	1345	0	13.21	551	13.04	0.17
E. THDC								
Tehri HPS (4*250)	1000	512	360	256	2.65	110	2.60	0.05
Koteswar HPS (4*100)	400	57	99	0	1.40	58	1.38	0.02
Sub Total (E)	1400	569	459	256	4.05	169	3.98	0.07
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	622	1173	372	15.14	631	14.93	0.21
Dehar HPS (6*165)	990	283	660	165	7.11	296	6.79	0.32
Pong HPS (6*68)	396	46	159	0	1.09	45	1.10	-0.01
Sub Total (F)	2765	951	1992	537	23.34	973	22.82	0.52
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*1000)	192	0	20	84	0.99	41	0.91	0.08
KARCHAM WANGTOO HPS(IPP) (2*1000)	1000	0	680	150	4.94	206	5.14	-0.19
Malana Stg-II HPS (2*50)	100	0	111	26	0.53	22	0.50	0.03
Shree Cement TPS (2*150)	300	0	291	293	6.95	290	6.99	-0.04
Budhil HPS(IPP) (2*35)	70	0	35	0	0.35	14	0.35	0.00
Sub Total (G)	1662	0	1137	553	13.76	573	13.88	-0.12
H. Total Regional Entities (A-G)	25237	17950	17713	12385	308.29	12846	306.76	1.53

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	210	4.22	176	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	100	120	2.52	105	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	464	461	10.11	421	
	Goindwal(GVK) (2*270)	540	0	0	0.00	0	
	Rajpura (2*700)	1400	1320	1320	31.56	1315	
	Talwandi Saboo (3*660)	1980	590	458	12.17	507	
	Thermal (Total)	6560	2634	2569	60.58	2524	
	Total Hydro	1000	362	324	8.00	333	
	Total Punjab	7560	2996	2893	68.58	2857	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	443	409	10.19	425
DCRTPP (Yamuna nagar) (2*300)		600	270	275	6.19	258	
Faridabad GPS (NTPC)(2*137.75+1*1156)		432	173	187	4.12	172	
RGTPP (kheadar) (IPP) (2*600)		1200	756	690	20.91	871	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	411	378	9.99	416	
Thermal (Total)		4944	2053	1939	51.41	2142	
Total Hydro		62	8	22	0.32	13	
Total Haryana		5006	2061	1961	51.73	2156	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	722	773	17.73	739
	suratgarh TPS (6*250)	1500	964	1131	24.76	1032	
	Chabara TPS (4*250)	1000	754	825	18.40	767	
	Dholpur GPS (3*110)	330	37	0	0.76	32	
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	216	213	4.97	207	
	RAPS A (NPC) (1*100+1*200)	300	0	0	0.00	0	
	Barsingar (NLC) (2*125)	250	0	0	0.00	0	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwast LTPS (IPP) (8*135)	1080	687	721	16.79	700	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalsindh Thermal(2*600)	1200	885	1116	26.15	1090	
	Kawai(Adani) (2*660)	1320	984	1154	28.50	1187	
	Thermal (Total)	8876	5249	5933	138	5753	
	Total Hydro	550	0	0	0.00	0	
	Wind power	3214	95	222	4.34	181	
	Biomass	99	14	14	0.33	14	
	Solar	730	0	0	3.04	127	
	Renewable/Others (Total)	4043	109	236	7.71	321	
	Total Rajasthan	13469	5358	6169	145.78	6074	
	UP	Anpara TPS (3*210+2*500)	1630	1220	1211	29.33	1222
Obra TPS (2*50+2*94+5*200)		1194	593	587	13.93	581	
Paricha TPS (2*110+2*220+2*250)		1160	950	967	22.94	956	
Panki TPS (2*105)		210	135	63	2.61	109	
Harduaganj TPS (1*60+1*105+2*250)		665	468	555	12.66	528	
Tanda TPS (NTPC) (4*110)		440	390	398	9.38	391	
Roza TPS (IPP) (4*300)		1200	1062	1099	25.54	1064	
Anpara-C (IPP) (2*600)		1200	1078	1080	25.78	1074	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	405	9.31	388	
Anpara-D(2*500)		1000	611	465	11.01	459	
Lalitpur TPS(3*660)		1980	500	499	9.65	402	
Bara(2*660)		1320	492	495	12.86	536	
Thermal (Total)		12449	7904	7824	185	7708	
Vishnuparyag HPS (IPP)(4*110)		440	94	93	2.19	91	
Alakanada(4*82.5)		330	0	0	0.97	41	
Other Hydro		527	30	165	1.66	69	
Cogeneration		981	200	200	4.80	200	
Total UP		14727	8228	8282	195	8109	
Uttarakhand		Total Hydro	1398	422	302	9.02	376
		Total Uttarakhand	1398	422	302	9.02	376
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	31	32	0.81	34	
	Pragati Gas Turbine (2x104+ 1x122)	330	291	271	6.57	274	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	256	253	6.20	259	
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	330	4.51	188	
	Thermal (Total)	2917	908	886	18.09	754	
	Total Delhi	2917	908	886	18.09	754	
HP	Baspa HPS (IPP) (3*100)	300	0	34	1.58	66	
	Malana HPS (IPP) (2*43)	86	72	20	0.55	23	
	Other Hydro	878	248	198	6.60	275	
	Total HP	1264	320	252	8.73	364	
J & K	Baglihar HPS (IPP) (3*150+2*1150)	750	440	440	10.45	436	
	Other Hydro/IPP	560	118	82	2.25	94	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1500	558	522	12.71	529	
Total State Control Area Generation		47841	20851	21267	509.25	21219	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7453.91	8282.76	184.71	7696	
Total Regional Availability(Gross)		73078	46018	41935	1002.26	41761	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8660	2788	96.26	4011
State Control Area Hydro	6881	1794	1680	44	1817
Total Regional Hydro	19115	10454	4468	139.86	5828

(VA). 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	Import	Export	Import	Export			
Vindhyachal(HVDC B/B)	250	250	250	0	6.03	0.00	6.03		
765 KV Gwalior-Agra (D/C)	2886	3288	3337	0	72.56	0.00	72.56		
400 KV Zerda-Kankroli	96	75	0	218	0.00	3.44	-3.44		
400 KV Zerda-Bhinmal	-29	-7	41	165	0.00	1.54	-1.54		
220 KV Auraiya-Malanpur	-24	-11	0	32	0.05	0.00	0.05		
220 KV Badod-Kota/Morak	9	98	111	0	1.23	0.00	1.23		
Mundra-Mohindergarh(HVDC Bipole)	2502	2003	2506	0	58.31	0.00	58.31		
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 kV Phagi-Gwalior (D/C)	651	931	954	0	18.49	0.00	18.49		
Sub Total WR	6341	6627			156.67	4.97	151.69		

Pusaui Bypass/HVDC	300	300	300	0	7.39	0.00	7.39
400 KV MZP- GKP (D/C)	-200	4	22	332	0.00	2.39	-2.39
400 KV Patna-Balia(D/C) X 2	22	148	249	0	4.33	0.00	4.33
400 KV B'Sharif-Balia (D/C)	-70	48	89	70	0.96	0.00	0.96
765 KV Gaya-Balia	108	203	230	0	2.44	0.00	2.44
765 KV Gaya-Varanasi (D/C)	92	-26	82	184	10.70	0.00	10.70
220 KV Pusaui-Sahupuri	180	180	184	0	4.04	0.00	4.04
132 KV K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-26	-30	0	30	0.00	0.55	-0.55
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-383	-254	0	397	0.00	6.34	-6.34
400 KV Barh -GKP (D/C)	260	360	360	0	6.66	0.00	6.66
400 kvB'Sharif - Varanasi (D/C)	330	223	0	385	0.00	6.38	-6.38
Sub Total ER	613	1156			37.00	15.66	21.34
+/- 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	7454	8283			205.35	20.63	184.71

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
42.78	0.35	43.12	2.51	-1.54	-0.51	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
45.13	122.01	167.13	33.02	151.69	184.71	-12.10	29.69	17.58

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	-30	-30	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	4.99	5.44	49.44	75.88	14.17	4.09	0.53	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)		
50.29	18.01	49.75	15.13	50.00	0.040	0.063	0.00	0.00	24.12

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	405	18:02	399	2:05	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	415	18:02	398	22:35	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	414	18:04	392	12:13	0.0	0.0	0.0	0.0	0.0
Kanpur	400	412	18:03	397	0:31	0.0	0.0	0.0	0.0	0.0
Dadri	400	415	5:02	400	11:49	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	421	5:02	404	12:10	0.0	0.0	0.4	0.0	0.4
Bawana	400	418	5:05	402	12:10	0.0	0.0	0.0	0.0	0.0
Bassi	400	419	18:31	393	23:08	0.0	0.0	0.0	0.0	0.0
Hissar	400	414	5:03	398	22:38	0.0	0.0	0.0	0.0	0.0
Moga	400	413	4:01	400	10:34	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	420	4:17	404	22:33	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	427	4:30	398	12:10	0.0	0.0	16.7	0.0	16.7
Kishenpur	400	416	3:24	401	22:10	0.0	0.0	0.0	0.0	0.0
Wagoora	400	405	4:01	383	6:47	0.0	24.3	0.0	0.0	0.0
Amritsar	400	420	4:01	163	11:35	0.0	0.0	0.0	0.0	0.0
Kashipur	400	420	17:44	407	11:49	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	421	4:14	395	12:08	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	417	17:47	375	12:20	3.5	27.2	0.0	0.0	3.5

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 : '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	475.68	368.17	484.48	569.03	205.16	528.34
Pong	426.72	384.05	394.46	116.59	405.19	344.07	39.19	86.20
Tehri	829.79	740.04	741.40	6.54	762.50	141.53	60.33	103.00
Koteshwar	612.50	598.50	607.35	3.32	610.90	5.00	103.00	92.20
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	131.62	71.81
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	498.26	2.72	521.10	3.13	105.43	124.03

* 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	-34	-202	0	-442	-78	0	-2.44	-0.90	-3.34
Delhi	-116	-193	0	-136	-150	0	-2.31	-3.26	-5.57
Haryana	529	268	0	378	286	0	5.92	-0.52	5.40
HP	-303	-156	0	-151	-394	0	-4.54	-2.60	-7.14
J&K	-107	48	0	-107	122	0	-2.56	1.70	-0.86
CHD	0	0	0	0	0	0	0.00	0.19	0.19
Rajasthan	-59	99	0	-58	92	0	-1.39	5.03	3.64
UP	473	0	0	357	0	0	8.51	0.08	8.59
Uttarakhand	68	285	0	127	319	0	6.49	3.09	9.58
Total	450	149	0	-33	198	0	7.66	2.82	10.48

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-34	-442	65	-202	0	0
Delhi	-75	-136	227	-503	0	0
Haryana	529	-25	302	-657	0	0
HP	-108	-303	109	-589	0	0
J&K	-107	-107	136	-26	0	0
CHD	0	0	79	0	0	0
Rajasthan	-51	-62	405	-253	0	0
UP	591	269	147	0	0	0
Uttarakhand	539	57	394	1	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	1.39%
ER	0.00%
Simultaneous	1.04%

(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 29.04.2016 :
Normal

XV. Synchronisation of new generating units :

XVI. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :
1. 400KV Patiala- Panchkula-1 first time charged at 21:12hrs from Patiala end and synchronised at Panchkula at 21:15hrs / 29.04.2016
2. 400KV Patiala- Panchkula-2 first time charged at 23:02hrs from Patiala end and synchronised at Panchkula at 23:05hrs / 29.04.2016
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.