

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 15.09.2016
Date of Reporting : 16.09.2016



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
51197	1229	52426	50.14	47834	1647	49480	50.02	1143.2	18.48

*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	86.95	16.41		103.36	106.94	107.47	0.53	210.83	0.00
Haryana	42.83	0.93		43.76	136.95	135.45	-1.50	179.21	0.00
Rajasthan	121.28	0.80	6.06	128.14	74.86	77.42	2.57	205.56	9.57
Delhi	22.11			22.11	83.44	84.46	1.01	106.57	0.07
UP	157.70	23.80		181.50	149.66	149.93	0.27	331.43	0.00
Uttarakhand		19.07		22.89	15.99	17.07	1.07	39.96	0.00
HP		20.49		20.49	5.88	8.18	2.30	28.67	0.00
J & K		21.96	0.00	21.96	16.69	13.41	-3.28	35.37	8.84
Chandigarh				0.00	6.09	5.59	-0.49	5.59	0.00
Total	430.86	103.47	6.06	544.20	596.50	598.98	2.48	1143.18	18.48

* Shortage furnished by the respective constituent. \$ 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				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	9393	0	-119	894	8058	0	901	9393	20:00	0	
Haryana	8769	0	-89	1966	7594	0	63	2087	8828	21:00	0
Rajasthan	8890	130	98	390	8838	1091	183	390	8982	23:00	309
Delhi	4691	0	29	429	4327	0	171	353	4996	24:00	0
UP	14232	630	176	408	15267	290	229	1359	15281	1:00	0
Uttarakhand	1854	0	23	39	1526	0	6	-91	1854	20:00	0
HP	1233	0	51	-1325	967	0	59	-1139	1299	8:00	0
J&K	1876	469	-44	-563	1063	266	-162	-663	1876	20:00	469
Chandigarh	259	0	-34	0	193	0	-8	0	276	15:00	0
Total	51197	1229	91	2238	47834	1647	415	3196	51197	20:00	1229

* 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	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW		(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1680	1769	1818	39.96	1665	39.82	0.14
Rihand I STPS (2*500)	1000	943	930	1026	21.89	912	22.25	-0.37
Rihand II STPS (2*500)	1000	953	945	1012	21.98	916	22.76	-0.78
Rihand III STPS (2*500)	1000	953	985	1001	21.84	910	22.68	-0.84
Dadri I STPS (4*210)	840	815	601	837	14.80	617	15.30	-0.50
Dadri II STPS (2*490)	980	970	899	873	19.26	803	20.51	-1.24
Unchahar I TPS (2*210)	420	360	334	350	7.45	310	8.27	-0.82
Unchahar II TPS (2*210)	420	400	356	384	8.12	339	8.95	-0.82
Unchahar III TPS (1*210)	210	200	180	184	3.97	165	4.44	-0.47
ISTPP (Jhajjar) (3*500)	1500	1425	627	604	13.90	579	14.09	-0.19
Dadri GPS (4*130.19+2*154.51)	830	787	301	370	7.12	297	7.66	-0.54
Anta GPS (3*88.71+1*153.2)	419	399	212	223	5.21	217	5.28	-0.07
Auraiya GPS (4*111.19+2*109.30)	663	623	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	0.02	1	0.03	-0.01
Singrauli Solar(15)	15	2	0	0	0.05	2	0.04	0.01
KHEP(4*200)	800	855	840	218	10.74	448	10.50	0.24
Sub Total (A)	12112	11366	8979	8900	196	8180	203	-6.26
B. NPC								
NAPS (2*220)	440	191	210	210	4.54	189	4.58	-0.04
RAPS- B (2*220)	440	379	418	420	9.00	375	9.10	-0.10
RAPS- C (2*220)	440	200	220	220	4.65	194	4.80	-0.15
Sub Total (B)	1320	770	848	850	18.19	758	18.48	-0.30
C. NHPC								
Chamera I HPS (3*180)	540	540	551	0	6.24	260	6.00	0.24
Chamera II HPS (3*100)	300	301	308	101	4.08	170	4.02	0.07
Chamera III HPS (3*77)	231	121	226	78	2.75	114	2.75	-0.01
Bairasuli HPS(3*60)	180	179	124	62	1.78	74	1.75	0.03
Salal-HPS (6*115)	690	541	669	554	13.76	573	12.98	0.78
Tanakpur-HPS (3*31.4)	94	92	96	96	2.29	96	2.21	0.08
Uri-I HPS (4*120)	480	319	311	336	8.06	336	7.66	0.40
Uri-II HPS (4*60)	240	181	162	163	4.42	184	4.35	0.07
Dhauliganga-HPS (4*70)	280	280	274	140	3.61	150	3.55	0.06
Dulhasti-HPS (3*130)	390	383	395	393	9.25	386	9.18	0.07
Sewa-II HPS (3*40)	120	119	121	0	1.43	60	1.45	-0.02
Parbati 3 (4*130)	520	520	520	0	2.39	100	2.34	0.05
Sub Total (C)	4065	3576	3758	1922	60	2503	58	1.82
D. SJVNL								
NJPC (6*250)	1500	1605	1582	1203	30.67	1278	30.94	-0.27
Rampur HEP (6*68.67)	412	442	446	342	8.87	369	8.61	0.26
Sub Total (D)	1912	2047	2028	1545	39.54	1647	39.55	-0.01
E. THDC								
Tehri HPS (4*250)	1000	1071	1054	266	15.59	650	15.50	0.09
Koteshwar HPS (4*100)	400	196	393	182	4.70	196	4.70	0.00
Sub Total (E)	1400	1267	1447	448	20.29	845	20.20	0.09
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	871	1338	666	21.16	882	20.89	0.27
Dehar HPS (6*165)	990	564	660	580	13.74	572	13.54	0.20
Pong HPS (6*66)	396	345	396	264	8.34	347	8.29	0.05
Sub Total (F)	2765	1780	2394	1510	43.23	1801	42.72	0.51
G. IPP(s)/JV(s)								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	159	58	2.04	85	2.04	0.00
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1087	670	17.44	727	17.57	-0.13
Malana Stg-II HPS (2*50)	100	0	85	45	1.61	67	1.51	0.09
Shree Cement TPS (2*150)	300	0	142	141	3.39	141	4.71	-1.32
Budhil HPS(IPP) (2*35)	70	0	38	38	0.90	37	1.18	-0.29
Sub Total (G)	1662	0	1512	952	25.37	1057	27.02	-1.65
H. Total Regional Entities (A-G)	25237	20806	20966	16127	402.99	16791	408.78	-5.79

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	880	880	19.84	827
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	180	180	4.07	170
	Guru Hargobind Singh TPS(L.mbi) (2*210+2*250)	920	588	590	13.18	549
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1320	1320	30.61	1276
	Talwandi Saboo (3*660)	1980	927	616	19.28	803
	Thermal (Total)	6560	3895	3586	86.95	3623
	Total Hydro	1000	757	705	16.41	684
	Total Punjab	7560	4652	4291	103.36	4307
	Haryana	Panipat TPS (2*210+2*250)	920	205	204	4.89
DCRTPP (Yamuna nagar) (2*300)		600	557	465	11.59	483
Faridabad GPS (NTPC)(2*137.75+1*156)		432	297	311	7.33	305
RGTPP (khedar) (IPP) (2*600)		1200	966	772	19.02	792
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0
Thermal (Total)		4497	2025	1752	42.83	1784
Total Hydro		62	33	41	0.93	39
Total Haryana		4559	2058	1793	43.76	1823
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	914	834	21.99
	suratgarh TPS (6*250)	1500	909	901	21.26	886
	Chabra TPS (4*250)	1000	599	752	17.13	714
	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	106	107	2.68	112
	RAPS A (NPC) (1*100+1*200)	300	167	166	4.15	173
	Barsingsar (NLC) (2*125)	250	192	225	4.93	205
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	827	833	19.83	826
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	0	0	0.00	0
	Kawai(Adani) (2*660)	1320	1221	1230	29.32	1222
	Thermal (Total)	8876	4935	5048	121	5053
	Total Hydro	550	32	48	0.80	33
	Wind power	4017	144	487	5.28	220
	Biomass	99	21	21	0.50	21
	Solar	1295	1	0	0.28	12
	Renewable/Others (Total)	5411	166	508	6.06	252
	Total Rajasthan	14837	5133	5604	128.14	5339
	UP	Anpara TPS (3*210+2*500)	1630	899	765	20.70
Obra TPS (2*50+2*94+5*200)		1194	198	200	4.65	194
Paricha TPS (2*110+2*220+2*250)		1160	827	855	19.87	828
Panki TPS (2*105)		210	153	77	3.15	131
Harduaganj TPS (1*60+1*105+2*250)		665	437	436	10.53	439
Tanda TPS (NTPC) (4*110)		440	344	345	8.29	345
Roza TPS (IPP) (4*300)		1200	1076	1107	26.83	1118
Anpara-C (IPP) (2*600)		1200	932	936	21.82	909
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	324	405	7.69	320
Anpara-D(2*500)		1000	380	392	9.35	390
Lalitpur TPS(3*660)		1980	405	492	10.40	434
Bara(2*660)		1320	548	549	13.22	551
Thermal (Total)		12449	6523	6559	156	6521
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.47	436
Alaknanda(4*82.5)		330	256	295	7.11	296
Other Hydro		527	282	289	6.22	259
Cogeneration		981	50	50	1.20	50
Total UP	14727	7546	7628	181	7562	
Uttarakhand	Total Hydro	1398	847	750	19.07	795
	Total Gas	225	160	161	3.82	159
	Total Uttarakhand	1623	1007	911	23	954
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	70	71	1.81	75
	Pragati Gas Turbine (2x104+ 1x122)	330	265	265	6.50	271
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	250	6.06	253
	Badarpur TPS (NTPC) (3*95+2*210)	705	330	320	7.76	323
	Thermal (Total)	2917	915	906	22.11	921
	Total Delhi	2917	915	906	22.11	921
HP	Baspa HPS (IPP) (3*100)	300	327	327	6.93	289
	Malana HPS (IPP) (2*43)	86	106	106	2.63	110
	Other Hydro	878	435	553	10.93	455
	Total HP	1264	868	986	20.49	854
J & K	Baqlihar HPS (IPP) (3*150+2*150)	750	733	732	17.59	733
	Other Hydro/IPP	560	184	185	4.38	182
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1500	917	917	21.96	915
Total State Control Area Generation		48987	23096	23036	544.20	22675
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			9459.82	10087.17	218.61	9109
Total Regional Availability(Gross)		74224	53522	49251	1165.81	48575

IV. Total Hydro Generation:						
Regional Entities Hydro		12234	11799	6416	194.95	8123
State Control Area Hydro		7106	4587	4627	103.47	4470
Total Regional Hydro		19340	16386	11043	298.42	12593

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	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	50	-50	350	200	0.88	2.04	-1.16
765 KV Gwalior-Agra (D/C)	2973	3176	3188	0	64.83	0.00	64.83
400 KV Zerda-Kankroli	105	60	105	98	1.29	0.00	1.29
400 KV Zerda-Bhinmal	179	107	235	17	2.79	0.00	2.79
220 KV Auraiya-Malanpur	-78	-30	0	87	0.00	0.42	-0.42
220 KV Badod-Kota/Morak	158	105	158	0	2.13	0.00	2.13
Mundra-Mohindergarh(HVDC Bipole)	2198	1802	2205	0.00	47.86	0.00	47.86
400 KV Vindhychal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1223	1307	1315	0	29.24	0.00	29.24
Sub Total WR	6808	6477			149.01	2.45	146.56
Pusauli Bypass/HVDC	250	250	250	0	6.04	0.00	6.04
400 KV MZP- GKP (D/C)	178	560	570	0	10.06	0.00	10.06
400 KV Patna-Balia(D/C) X 2	499	651	653	0	13.76	0.00	13.76
400 KV B'Sharif-Balia (D/C)	40	205	213	0	3.35	0.00	3.35
765 KV Gaya-Balia	308	409	409	0	4.02	0.00	4.02
765 KV Gaya-Varanasi (D/C)	514	713	713	0	13.68	0.00	13.68
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	-20	-30	0	30	0.00	0.57	-0.57
132 KV Son Ngr-Rihand	-40	-38	0	41	0.00	0.84	-0.84
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-229	-149	0	230	0.00	3.54	-3.54
400 KV Barh -GKP (D/C)	402	442	470	0	8.94	0.00	8.94
400 kV B'Sharif - Varanasi (D/C)	50	-103	142	63	1.23	0.00	1.23
Sub Total ER	1952	2910			61.08	4.96	56.12
+/- 800 KV BiswanathChariali-Agra	700	700	700	0.00	15.94	0.00	15.94
Sub Total NER	700	700			15.94	0.00	15.94
Total IR Exch	9460	10087			226.03	7.42	218.61

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
47.23	3.73	50.96	28.62	15.91	8.24	2.23	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
87.81	133.69	221.50	72.06	146.56	218.61	-15.76	12.87	-2.89

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	-26	-24	0	27	0	1	-0.52

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	0.42	31.73	73.41	22.91	3.31	0.12	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)		
50.22	13.03	49.87	12.48	50.02	0.025	0.046	50.20	50.03	26.59

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	408	5:21	401	2:08	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	421	7:01	398	23:03	0.0	0.0	0.3	0.0	0.3
Bareilly(PG)400kV	400	419	7:01	400	23:02	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	7:00	400	23:03	0.0	0.0	0.0	0.0	0.0
Dadri	400	413	6:54	396	14:43	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	421	7:03	400	14:43	0.0	0.0	0.1	0.0	0.1
Bawana	400	417	6:03	399	19:21	0.0	0.0	0.0	0.0	0.0
Bassi	400	420	18:15	401	10:10	0.0	0.0	0.0	0.0	0.0
Hissar	400	413	6:03	395	19:20	0.0	0.0	0.0	0.0	0.0
Moga	400	417	6:04	401	19:27	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	419	5:11	400	19:27	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	422	4:30	404	14:44	0.0	0.0	7.6	0.0	7.6
Kishenpur	400	416	3:19	400	19:29	0.0	0.0	0.0	0.0	0.0
Wagoora	400	412	3:20	383	19:43	0.0	9.6	0.0	0.0	0.0
Amritsar	400	421	4:03	403	19:22	0.0	0.0	0.1	0.0	0.1
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	413	7:55	399	19:43	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	412	6:55	390	12:06	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 Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	789	7:02	753	23:02	0.0	0.0	0.0	0.0	0.0
Balia	765	790	7:01	753	23:03	0.0	0.0	0.0	0.0	0.0
Moga	765	807	6:01	777	19:26	0.0	0.0	17.0	0.0	17.0
Agra	765	796	18:15	763	12:12	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	800	7:10	770	14:40	0.0	0.0	0.0	0.0	0.0
Unnao	765	770	7:00	742	0:32	0.0	0.0	0.0	0.0	0.0
Lucknow	765	793	7:00	755	23:06	0.0	0.0	0.0	0.0	0.0
Meerut	765	804	7:00	770	12:12	0.0	0.0	4.2	0.0	4.2
Jhatikara	765	797	7:01	762	12:12	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	786	18:15	760	23:03	0.0	0.0	0.0	0.0	0.0
Anta	765	795	18:16	771	12:11	0.0	0.0	0.0	0.0	0.0
Phagi	765	797	18:19	767	23:03	0.0	0.0	0.0	0.0	0.0

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	503.13	1232.31	511.29	1605.30	648.96	648.96
Pong	426.72	384.05	417.89	794.52	421.57	961.02	300.38	496.25
Tehri	829.79	740.04	824.50	1097.37	821.60	1044.51	197.34	336.00
Koteshwar	612.50	598.50	609.63	4.38	610.87	5.00	336.00	309.72
Chamera-I	760.00	748.75	752.68	0.00	0.00	0.00	151.62	169.21
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	520.71	5.97	512.67	8.89	189.25	245.53

* 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	901	0	0	641	253	0	20.95	3.74	24.68
Delhi	608	-255	0	619	-190	0	15.78	-3.69	12.09
Haryana	1732	343	13	1640	313	13	38.95	6.29	45.24
HP	-854	-286	0	-550	-776	0	-15.62	-9.11	-24.73
J&K	-548	-115	0	-548	-15	0	-13.74	-0.08	-13.82
CHD	0	0	0	0	0	0	0.36	0.19	0.55
Rajasthan	-129	514	4	-129	514	4	-3.08	12.69	9.61
UP	774	585	0	408	0	0	11.38	6.10	17.48
Uttarakhand	-183	92	0	-183	222	0	-4.40	4.52	0.12
Total	2301	878	17	1898	322	17	50.57	20.65	71.22

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1105	573	545	0	0	0
Delhi	788	379	195	-482	0	0
Haryana	1954	1425	362	-133	14	13
HP	-550	-854	-108	-813	0	0
J&K	-548	-618	99	-115	0	0
CHD	44	0	44	-20	0	0
Rajasthan	-129	-129	545	505	4	4
UP	800	326	1012	0	0	0
Uttarakhand	-183	-183	379	21	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	12.15%
ER	0.00%
Simultaneous	2.08%

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

WR	63.54%
ER	0.00%
Simultaneous	45.49%

(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 15.09.2016 :

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 :

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.