

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 12.09.2015
Date of Reporting : 13.09.2015

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
50166	1773	51939	49.85	46861	3345	50226	49.98	1142.3	66.02

* 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	92.07	20.78		112.85	106.67	106.17	-0.50	219.01	0.00
Haryana	62.20	0.73		62.93	126.23	124.01	-2.22	186.94	0.00
Rajasthan	127.56	4.34	9.78	141.68	87.76	86.73	-1.03	228.41	0.00
Delhi	17.44			17.44	87.76	85.76	-1.99	103.20	0.15
UP	124.49	23.20		147.69	136.75	150.45	13.70	298.14	56.40
Uttarakhand		20.61		20.61	17.75	19.06	1.30	39.67	1.10
HP		18.72		18.72	7.07	7.56	0.49	26.28	0.00
J & K		14.70	0.00	14.70	22.01	20.38	-1.63	35.07	8.37
Chandigarh				0.00	5.82	5.57	0.27	5.57	0.00
Total	423.76	103.08	9.78	536.62	597.82	605.67	8.38	1142.28	66.02

* 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				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	9319	0	-70	695	8468	0	67	697	9682
Haryana	8783	0	-267	1560	8002	0	20	1780	8783
Rajasthan	9055	0	-247	935	10379	0	18	1551	10615
Delhi	4484	12	-69	288	4437	0	109	85	4982
UP	13220	1265	413	392	11857	3180	578	976	13220
Uttarakhand	1871	5	-77	263	1634	0	166	269	1894
HP	1215	0	-121	-1009	972	0	-41	-777	1278
J&K	1963	491	45	-153	933	165	-269	-452	1963
Chandigarh	256	0	-21	0	200	0	0	0	266
Total	50166	1773	-414	2961	46881	3345	649	4130	50622

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

III. Regional Entities :

Entity	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	
										UI
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1765	1946	1940	43.36	1806	42.36	1.00	
	Rihand I STPS (2*500)	1000	782	889	866	18.45	769	18.44	0.01	
	Rihand II STPS (2*500)	1000	953	915	1043	22.89	954	22.24	0.65	
	Rihand III STPS (2*500)	1000	479	467	521	11.45	477	11.16	0.29	
	Dadri I STPS (4*210)	840	600	564	612	13.46	561	14.09	-0.63	
	Dadri II STPS (2*490)	980	970	878	922	21.79	908	23.15	-1.36	
	Unchahar I TPS (2*210)	420	396	357	431	9.15	381	9.25	-0.10	
	Unchahar II TPS (2*210)	420	398	350	438	8.98	374	9.07	-0.08	
	Unchahar III TPS (1*220)	210	200	171	218	4.51	188	4.51	0.00	
	ISTPP (Jhajjar) (3*500)	1500	1366	605	930	18.98	791	19.13	-0.15	
	Dadri GPS (4*130.19+2*154.51)	830	800	343	395	8.74	364	9.01	-0.26	
	Anta GPS (3*88.71+1*153.2)	419	391	241	319	6.81	284	6.97	-0.16	
	Auraiya GPS (4*111.19+2*109.30)	663	635	111	104	2.63	110	2.83	-0.20	
	Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01	
	Unchahar Solar	10	3	0	0	0.02	1	0.06	-0.04	
	Singrauli Solar	15	3	0	0	0.06	2	0.08	-0.02	
	KHEP	800	835	840	0	8.37	349	8.18	0.20	
	Sub Total (A)	12112	10576	8677	8739	200	8320	201	-1	
	B. NPC	NAPS (2*220)	440	380	406	420	9.00	375	9.12	-0.12
RAPS- B (2*220)		440	186	210	212	4.48	187	4.46	0.01	
RAPS- C (2*220)		440	390	430	432	9.23	385	9.36	-0.13	
Sub Total (B)		1320	956	1046	1064	22.70	946	22.94	-0.24	
C. NHPC	Chamera I HPS (3*180)	540	534	542	0	6.34	264	6.20	0.14	
	Chamera II HPS (3*100)	300	300	303	202	5.54	231	5.43	0.11	
	Chamera III HPS (3*77)	231	229	236	78	3.82	159	3.61	0.21	
	Bairasuli HPS(3*60)	180	179	182	55	1.35	56	1.25	0.10	
	Salal-HPS (6*115)	690	539	675	470	13.73	572	12.90	0.83	
	Tanakpur-HPS (3*40)	94	87	92	94	2.24	93	2.09	0.15	
	Uri-I HPS (4*120)	480	208	345	161	5.53	230	5.00	0.53	
	Uri-II HPS (4*60)	240	128	112	116	3.20	133	3.07	0.13	
	Dhauliganga-HPS (4*70)	280	277	280	0	4.89	204	4.74	0.14	
	Dulhasti-HPS (3*130)	390	386	403	397	9.41	392	9.26	0.15	
	Sewa-II HPS (3*40)	120	119	128	0	0.63	26	0.45	0.18	
	Parbati 3 (4*130)	520	390	284	0	2.40	100	2.34	0.06	
	Sub Total (C)	4065	3377	3581	1573	59	2461	56	3	
	D.SJVNL	NJPC (6*250)	1500	1605	1617	1059	30.61	1275	30.05	0.56
		Rampur HEP (6*68.67)	412	442	446	295	8.73	364	8.36	0.37
Sub Total (D)		1912	2047	2063	1354	39.34	1639	38.41	0.93	
E. THDC	Tehri HPS (4*250)	1000	1080	929	0	6.58	274	6.50	0.08	
	Koteshwar HPS (4*100)	400	92	101	92	2.23	93	2.20	0.03	
	Sub Total (E)	1400	1172	1030	92	8.81	367	8.70	0.11	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	874	1449	649	21.12	880	20.98	0.14	
	Dehar HPS (6*165)	990	587	825	560	14.02	584	14.09	-0.07	
	Pong HPS (6*66)	396	318	324	324	7.63	318	7.63	0.00	
	Sub Total (F)	2765	1779	2598	1533	42.77	1782	42.70	0.07	
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	105	78	1.80	75	1.57	0.23	
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1010	710	17.68	737	17.06	0.62	
	Malana Stg-II HPS (2*50)	100	0	110	60	1.59	66	1.49	0.09	
	Shree Cement TPS (2*150)	300	0	145	148	3.48	145	3.60	-0.12	
	Budhil HPS(IPP) (2*35)	70	0	75	42	1.16	48	1.13	0.03	
Sub Total (G)	1662	0	1445	1039	25.70	1071	24.85	0.85		
H. Total Regional Entities (A-G)	25237	19907	20440	15394	398.07	16586	394.49	3.59		

Diversity is 1.04

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

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	850	840	20.61	859	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	180	200	4.29	179	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	835	935	20.62	859	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	1383	1376	31.74	1323	
	Talwandi Saboo (1*660)	660	666	671	14.81	617	
	Thermal (Total)	4700	3914	4022	92.07	3836	
	Total Hydro	1000	795	896	20.78	866	
	Total Punjab	5700	4709	4918	112.85	4702	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	849	847	18.33	764
DCRTPP (Yamuna nagar) (2*300)		600	555	557	12.37	515	
Faridabad GPS (NTPC)		432	0	0	0.00	0	
RGTPP (khedra) (IPP) (2*600)		1200	1143	567	21.12	860	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	569	470	10.38	433	
Thermal (Total)		4944	3116	2441	62.20	2592	
Total Hydro		62	31	30	0.73	31	
Total Haryana		5006	3147	2471	62.93	2622	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	968	1043	23.10	962
		suratgarh TPS (6*250)	1500	1150	1254	27.02	1126
		Chabra TPS (4*250)	1000	360	376	8.79	366
		Dholpur GPS (3*110)	330	87	86	2.11	88
	Ramgarh GPS (1*37.5 + 1*35.5 + 2*37.5 + 1*110 + 1*50)	271	203	214	5.10	212	
	RAPS A (NPC) (1*100+1*200)	300	161	160	3.96	165	
	Barsingar (NLC) (2*125)	250	179	180	4.05	169	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	708	716	15.82	659	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1011	996	24.28	1012	
	Kawai(Adani) (2*660)	1320	578	590	13.34	556	
	Thermal (Total)	8876	5405	5615	128	5315	
	Total Hydro	550	231	184	4.34	181	
	Wind power	3214	8	408	6.93	289	
	Biomass	99	27	27	0.64	27	
	Solar	730	0	0	2.21	92	
	Renewable/Others (Total)	4043	35	435	9.78	408	
	Total Rajasthan	13469	5671	6234	141.68	5903	
	UP	Anpara TPS (3*210+2*500)	1630	1198	1360	30.20	1258
Obra TPS (2*50+2*94+5*200)		1194	440	446	10.20	425	
Paricha TPS (2*110+2*220+2*250)		1140	590	212	10.40	433	
Panki TPS (2*105)		210	68	54	1.40	58	
Harduaganj TPS (1*60+1*105+2*250)		665	415	442	9.50	396	
Tanda TPS (NTPC) (4*110)		440	185	184	4.49	187	
Roza TPS (IPP) (4*300)		1200	1107	824	24.60	1025	
Anpara-C (IPP) (2*600)		1200	1080	1082	18.90	788	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	403	9.40	392	
Anpara-D(1*500)		500	53	185	4.20	175	
Lalitpur TPS(1*660)		660	0	0	0.00	0	
Thermal (Total)		9289	5541	5192	123	5137	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.40	433	
Alaknanda(4*82.5)		330	270	272	6.90	288	
Other Hydro		527	277	201	5.90	246	
Cogeneration		981	50	50	1.20	50	
Total UP		11567	6573	6150	148	6154	
Uttarakhand	Total Hydro	1398	876	785	20.61	859	
	Total Uttarakhand	1398	876	785	20.61	859	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	34	34	0.83	34	
	Prahati Gas Turbine (2x104+ 1x122)	330	262	265	6.38	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	277	272	6.34	264	
	Badarpur TPS (NTPC) (3*95+2*210)	705	178	186	3.89	162	
	Thermal (Total)	2917	751	757	17.44	727	
	Total Delhi	2917	751	757	17.44	727	
HP	Baspa HPS (IPP) (3*100)	300	303	303	7.02	293	
	Malana HPS (IPP) (2*43)	86	81	81	1.36	57	
	Other Hydro	878	418	422	10.34	431	
	Total HP	1264	802	806	18.72	780	
J & K	Baqilhar HPS (IPP) (3*150)	450	586	440	11.58	483	
	Other Hydro/IPP	560	160	126	3.12	130	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	746	566	14.70	612	
Total State Control Area Generation		42521	23275	22687	536.62	22359	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			9217	10357	224.87	9370	
Total Regional Availability(Gross)		67758	52932	48438	1159.56	48315	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	11338	5401	179.43	7476
State Control Area Hydro	6581	4463	4175	103	4295
Total Regional Hydro	18815	15801	9576	282.51	11771

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	Import	Export	
Vindhychal(HVDC B/B)	150	250	250	0	5.21	0.00	5.21		
765 KV Gwalior-Agra (D/C)	2956	2643	2956	0	59.69	0.00	59.69		
400 KV Zerda-Kankroli	40	97	134	59	0.45	0.00	0.45		
400 KV Zerda-Bhinmal	96	170	237	53	2.41	0.00	2.41		
220 KV Auraiya-Malanpur	-28	-60	0	92	0.00	1.02	-1.02		
220 KV Badod-Kota/Morak	-26	43	48	63	0.00	0.12	-0.12		
Mundra-Mohindergarh(HVDC Bipole)	2505	2502	2524	0	60.53	0.00	60.53		
400 KV Vindhychal - Rihand	500	505	508	0	11.99	0.00	11.99		
765 kV Phagi-Gwalior (D/C)	1140	1305	1305	0	27.34	0.00	27.34		
Sub Total WR	7333	7455			167.62	1.14	166.48		
Pusauli Bypass/HVDC	400	400	400	0	9.04	0.00	9.04		
400 KV MZP- GKP (D/C)	264	456	582	0	9.78	0.00	9.78		
400 KV Patna-Balia(D/C) X 2	397	573	689	0	12.66	0.00	12.66		
400 KV B'Sharif-Balia (D/C)	223	318	481	0	7.97	0.00	7.97		
765 KV Pusauli-Balia	298	258	403	0	3.80	0.00	3.80		
765 KV Gaya-Fatehpur	61	323	362	0	5.23	0.00	5.23		
220 KV Pusauli-Sahupuri	154	145	214	0	3.31	0.00	3.31		
132 KV Knasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
132 KV Son Ngr-Rihand	-33	-34	0	43	0.00	0.84	-0.84		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-125	147	185	125	1.31	0.00	1.31		
400 KV Barh -GKP (D/C)	245	316	323	0	6.14	0.00	6.14		
Sub Total ER	1884	2902			59.23	0.84	58.39		
+/- 800 KV BiswanathChariali-Agra	0	0	0	0	0	0	0		
Sub Total NER	0	0			0	0	0		
Total IR Exch	9217	10357			226.85	1.98	224.87		

V(B). 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
40.37	4.03	44.40	14.86	10.35	11.60	36.10	0.86	-0.86
Total IR Schedule (MU)								
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
71.71	148.70	220.41	58.39	166.48	224.87	-13.32	17.79	4.46

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	Import	Export	
132 KV Tanakpur - Mahendarnagar	0	0	0	21	0	0	-0.03		

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	0.35	6.39	40.63	84.58	55.83	1.94	1.60	0.00	0.00

Frequency (Hz)					Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum						MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Time					
50.15	10.03	49.66	19.11	49.92	0.134	0.081	50.12	49.85	

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	400	00:00	400	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	415	14:03	398	19:23	0.0	0.0	0.0	0.0
Barilly	400	408	04:00	393	19:09	0.0	0.0	0.0	0.0
Kanpur	400	412	04:01	398	00:18	0.0	0.0	0.0	0.0
Dadri	400	411	06:04	392	12:21	0.0	0.0	0.0	0.0
Ballabgarh	400	417	06:03	396	12:21	0.0	0.0	0.0	0.0
Bawana	400	414	06:03	398	12:17	0.0	0.0	0.0	0.0
Bassi	400	418	18:00	394	23:13	0.0	0.0	0.0	0.0
Hissar	400	408	04:00	389	12:16	0.0	0.8	0.0	0.0
Moga	400	408	04:00	389	12:17	0.0	0.9	0.0	0.0
Abdullapur	400	413	03:59	395	19:09	0.0	0.0	0.0	0.0
Nalagarh	400	419	04:00	396	12:29	0.0	0.0	0.0	0.0
Kishenpur	400	419	03:58	395	20:10	0.0	0.0	0.0	0.0
Wagoora	400	412	03:59	374	20:11	5.7	14.5	0.0	0.0
Amritsar	400	414	04:02	388	12:21	0.0	1.3	0.0	0.0
Kashipur	400	414	03:58	406	23:18	0.0	0.0	0.0	0.0
Hamirpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Rishikesh	400	397	04:00	375	19:28	10.9	54.2	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	770	18:02	741	00:19	0.0	0.0	0.0	0.0
Balia	765	775	10:01	749	19:28	0.0	0.0	0.0	0.0
Moga	765	783	04:01	749	12:19	0.0	0.0	0.0	0.0
Agra	765	786	06:05	753	23:17	0.0	0.0	0.0	0.0
Bhiwani	765	786	04:01	756	12:20	0.0	0.0	0.0	0.0
Unnao	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Lucknow	765	768	10:01	743	19:20	0.0	0.0	0.0	0.0
Meerut	765	792	04:01	756	12:20	0.0	0.0	0.0	0.0
Jhatikara	765	789	06:01	755	12:21	0.0	0.0	0.0	0.0
Barilly	765	767	04:01	741	19:28	0.0	0.2	0.0	0.0
Anta	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Phagi	765	782	04:01	752	23:15	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	511.29	1605.30	511.25	1605.30	536.09	629.77
Pong	426.72	384.05	421.92	975.89	416.62	743.22	133.37	436.65
Tehri	829.79	740.04	821.10	1026.00	819.20	987.00	232.97	146.00
Koteshwar	612.50	598.50	610.83	4.95	611.57	5.39	146.00	147.24
Chamera-I	760.00	748.75	754.54	0.00	0.00	0.00	178.92	171.89
Rihand	268.22	252.98	852.30	292.90	856.10	357.20	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	513.73	10.17	517.95	2.66	122.51	498.01

* 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	697	0	0	695	0	0	16.72	5.21	21.93
Delhi	255	-129	-40	505	-182	-35	8.71	-2.60	6.11
Haryana	1678	102	0	1477	72	0	37.89	0.32	38.21
HP	-919	142	0	-944	-65	0	-20.22	-0.01	-20.22
J&K	-417	-35	0	-268	114	0	-8.84	2.31	-6.53
CHD	0	0	0	0	0	0	0.00	0.13	0.13
Rajasthan	-329	1841	39	-472	1372	34	-8.78	39.71	30.93
UP	485	491	0	392	0	0	7.83	4.61	12.45
Uttarakhand	-94	363	0	-249	512	0	-4.00	7.60	3.60
Total	1356	2775	-1	1137	1825	-1	29.32	57.29	86.61

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	697	695	694	0	0	0
Delhi	743	94	164	-428	0	-40
Haryana	1678	1477	126	-330	0	0
HP	-742	-1121	142	-115	0	0
J&K	-268	-417	239	-35	0	0
CHD	0	0	74	0	0	0
Rajasthan	-308	-472	2036	396	39	0
UP	510	114	491	0	0	0
Uttarakhand	-92	-249	521	152	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 12.09.2015 :

Normal

XIV. Synchronisation of new generating units :

XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

XVI. Tripping of lines in pooling stations :

XVII. Complete generation loss in a generating station :