

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 16.09.2015
Date of Reporting : 17.09.2015

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
46481	2716	49197	49.85	47765	2273	50038	49.98	1103.3	72.78

* 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	89.30	17.33		106.63	96.60	93.64	-2.97	200.27	0.00
Haryana	53.88	0.72		54.60	125.43	122.93	-2.50	177.53	0.00
Rajasthan	133.65	4.08	7.06	144.79	80.94	80.88	-0.06	225.67	0.00
Delhi	19.32			19.32	92.51	91.74	-0.76	111.06	0.32
UP	126.29	19.70		145.99	135.08	136.23	1.15	282.22	64.16
Uttarakhand		21.25		21.25	17.21	19.33	2.12	40.57	0.06
HP		17.67		17.67	7.85	8.41	0.56	26.08	0.08
J & K		13.26	0.00	13.26	21.76	21.15	-0.61	34.41	8.16
Chandigarh				0.00	5.96	5.45	0.27	5.45	0.00
Total	422.45	94.00	7.06	523.51	583.33	579.76	-2.79	1103.26	72.78

* 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	7728	0	-170	596	8554	0	-21	540	9473
Haryana	7533	0	-165	1849	8197	0	59	1956	8476
Rajasthan	9253	0	17	584	10095	0	17	1349	10450
Delhi	4929	44	29	542	4680	0	83	248	5275
UP	12051	2125	-161	465	12368	2070	-9	1733	12578
Uttarakhand	1849	80	132	-208	1583	0	198	13	1934
HP	1128	22	-44	-1010	934	0	7	-873	1299
J&K	1784	446	31	-207	1150	203	-103	-357	1784
Chandigarh	227		-32	0	204	0	7	0	297
Total	46481	2716	-364	2611	47765	2273	238	4609	48865

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

UI/OA/PX (OD/Import: (+ve), UD/Export: (-ve))

Diversity is 1.06

III. Regional Entities :

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 (OG:(+ve), UG: (-ve))	
								Net MU	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1370	1538	1550	34.23	1426	32.76	1.47	
Rihand I STPS (2*500)	1000	783	863	856	18.77	782	18.60	0.17	
Rihand II STPS (2*500)	1000	877	993	1033	20.80	867	20.84	-0.04	
Rihand III STPS (2*500)	1000	480	508	508	11.50	479	11.44	0.06	
Dadri I STPS (4*210)	840	600	530	601	13.72	572	14.33	-0.62	
Dadri II STPS (2*490)	980	970	894	863	20.43	851	22.13	-1.71	
Unchahar I TPS (2*210)	420	395	409	431	9.25	385	9.42	-0.18	
Unchahar II TPS (2*210)	420	400	395	441	9.42	393	9.51	-0.08	
Unchahar III TPS (1*220)	210	200	198	221	4.70	196	4.74	-0.04	
ISTPP (Jhajjar) (3*500)	1500	1436	590	741	14.86	619	14.57	0.29	
Dadri GPS (4*130.19+2*154.51)	830	800	369	390	8.71	363	8.89	-0.18	
Anta GPS (3*88.71+1*153.2)	419	341	244	257	5.90	246	5.95	-0.05	
Auraiya GPS (4*111.19+2*109.30)	663	635	0	0	0.00	0	0.00	0.00	
Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01	
Unchahar Solar	10	3	0	0	0.03	1	0.06	-0.03	
Singrauli Solar	15	3	0	0	0.03	1	0.08	-0.04	
KHEP	800	845	838	198	11.30	471	11.30	0.01	
Sub Total (A)	12112	10138	8369	8090	184	7653	185	-1	
B. NPC									
NAPS (2*220)	440	371	405	413	4.44	371	4.44	0.00	
RAPS- B (2*220)	440	185	213	212	4.44	185	4.44	0.00	
RAPS- C (2*220)	440	410	431	433	9.24	385	9.84	-0.60	
Sub Total (B)	1320	966	1049	1058	22.58	941	23.18	-0.61	
C. NHPC									
Chamera I HPS (3*180)	540	534	544	0	6.14	256	5.90	0.24	
Chamera II HPS (3*100)	300	300	305	119	5.09	212	4.94	0.15	
Chamera III HPS (3*77)	231	229	233	0	3.45	144	3.35	0.10	
Bairasuli HPS(3*60)	180	179	121	0	1.44	60	1.31	0.13	
Salal-HPS (6*115)	690	591	673	443	15.10	629	14.09	1.01	
Tanakpur-HPS (3*40)	94	88	93	91	2.23	93	2.11	0.11	
Uri-I HPS (4*120)	480	167	221	158	4.69	195	4.02	0.67	
Uri-II HPS (4*60)	240	110	142	82	2.79	116	2.64	0.14	
Dhauliganga-HPS (4*70)	280	280	286	212	4.98	207	4.78	0.20	
Dulhasti-HPS (3*130)	390	386	406	401	9.49	396	9.26	0.23	
Sewa-II HPS (3*40)	120	119	129	0	0.44	18	0.37	0.07	
Parbati 3 (4*130)	520	390	262	0	1.94	81	1.85	0.09	
Sub Total (C)	4065	3374	3413	1506	58	2407	55	3	
D. SJVNL									
NJPC (6*250)	1500	1350	1366	1365	30.94	1289	30.68	0.26	
Rampur HEP (6*68.67)	412	432	371	372	8.81	367	8.37	0.44	
Sub Total (D)	1912	1782	1737	1737	39.75	1656	39.05	0.70	
E. THDC									
Tehri HPS (4*250)	1000	1080	1002	230	6.64	277	6.50	0.14	
Koteshwar HPS (4*100)	400	92	101	92	2.23	93	2.20	0.03	
Sub Total (E)	1400	1172	1103	322	8.87	370	8.70	0.17	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	970	1298	668	23.10	963	23.28	-0.18	
Dehar HPS (6*165)	990	582	825	560	14.15	590	13.98	0.17	
Pong HPS (6*66)	396	341	384	318	8.22	342	8.16	0.04	
Sub Total (F)	2765	1893	2507	1546	45.47	1894	45.44	0.03	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	93	72	1.61	67	1.74	-0.13	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1050	850	18.05	752	18.00	0.05	
Malana Stg-II HPS (2*50)	100	0	109	60	1.49	62	1.40	0.08	
Shree Cement TPS (2*150)	300	0	146	147	3.48	145	3.58	-0.10	
Budhil HPS(IPP) (2*35)	70	0	64	45	1.04	44	1.09	-0.05	
Sub Total (G)	1662	0	1462	1174	25.66	1069	25.81	-0.15	
H. Total Regional Entities (A-G)	25237	19325	19640	15433	383.76	15990	381.44	2.32	

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	1015	1160	24.36	1015	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	295	395	7.28	303	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	690	943	18.19	758	
	Goindwal(GVK)	0	0	0	0.00	0	
	Rajpura (2*700)	1400	1022	1387	27.30	1138	
	Talwandi Saboo (1*660)	660	334	666	12.17	507	
	Thermal (Total)	4700	3356	4551	89.30	3721	
	Total Hydro	1000	671	737	17.33	722	
	Total Punjab	5700	4027	5288	106.63	4443	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	230	232	4.99	208
DCRTPP (Yamuna nagar) (2*300)		600	455	550	11.64	485	
Faridabad GPS (NTPC)		432	326	333	8.07	336	
RGTPP (khedar) (IPP) (2*600)		1200	754	930	20.31	846	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	373	374	8.87	370	
Thermal (Total)		4944	2138	2419	53.88	2245	
Total Hydro		62	22	31	0.72	30	
Total Haryana		5006	2160	2450	54.60	2275	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	995	975	23.44	977
		suratgarh TPS (6*250)	1500	1283	1141	28.19	1175
		Chabra TPS (4*250)	1000	378	369	8.61	359
		Dholpur GPS (3*110)	330	88	88	2.13	89
	Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	179	191	4.33	181	
	RAPS A (NPC) (1*100+1*200)	300	161	161	3.95	165	
	Barsingar (NLC) (2*125)	250	189	192	4.42	184	
	Giral LTPS (2*125)	250	26	0	0.04	2	
	Rajwest LTPS (IPP) (8*135)	1080	911	829	20.67	861	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1006	1012	24.10	1004	
	Kawai(Adani) (2*660)	1320	540	522	13.78	574	
	Thermal (Total)	8876	5756	5480	134	5569	
	Total Hydro	550	183	183	4.08	170	
	Wind power	3214	76	798	6.24	260	
	Biomass	99	31	31	0.75	31	
	Solar	730	0	0	0.07	3	
	Renewable/Others (Total)	4043	107	829	7.06	294	
	Total Rajasthan	13469	6046	6492	144.79	6033	
	UP	Anpara TPS (3*210+2*500)	1630	1387	1319	32.40	1350
Obra TPS (2*50+2*94+5*200)		1194	462	465	11.00	468	
Paricha TPS (2*110+2*220+2*250)		1140	567	629	14.30	596	
Panki TPS (2*105)		210	59	54	1.50	63	
Harduaganj TPS (1*60+1*105+2*250)		665	426	541	12.30	513	
Tanda TPS (NTPC) (4*110)		440	183	184	4.49	187	
Roza TPS (IPP) (4*300)		1200	1107	1103	26.60	1108	
Anpara-C (IPP) (2*600)		1200	543	540	13.00	542	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	405	403	9.50	396	
Anpara-D(1*500)		500	0	0	0.00	0	
Lalitpur TPS(1*660)		660	0	0	0.00	0	
Thermal (Total)		9289	5139	5238	125	5212	
Vishnuparyag HPS (IPP)(4*110)		440	435	435	10.50	438	
Alaknanda(4*82.5)		330	246	285	6.70	279	
Other Hydro		527	91	103	2.50	104	
Cogeneration		981	50	50	1.20	50	
Total UP		11567	5961	6111	146	6083	
Uttarakhand	Total Hydro	1398	962	839	21.25	885	
	Total Uttarakhand	1398	962	839	21.25	885	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.03	1	
	Delhi Gas Turbine (6x30 + 3x34)	282	37	37	0.83	34	
	Prahati Gas Turbine (2x104+ 1x122)	330	262	263	6.38	266	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	0	264	5.06	211	
	Badarpur TPS (NTPC) (3*95+2*210)	705	325	322	7.02	293	
	Thermal (Total)	2917	624	886	19.32	805	
	Total Delhi	2917	624	886	19.32	805	
HP	Baspa HPS (IPP) (3*100)	300	270	300	6.71	280	
	Malana HPS (IPP) (2*43)	86	74	81	1.42	59	
	Other Hydro	878	416	414	9.54	397	
	Total HP	1264	760	795	17.67	736	
J & K	Baqilhar HPS (IPP) (3*150)	450	450	450	10.80	450	
	Other Hydro/IPP	560	120	92	2.46	102	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	570	542	13.26	552	
Total State Control Area Generation		42521	21110	23403	523.51	21813	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			7902	10888	221.51	9230	
Total Regional Availability(Gross)		67758	48652	49724	1128.78	47033	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	10851	6292	184.30	7679
State Control Area Hydro	6581	3940	3950	94	3917
Total Regional Hydro	18815	14791	10242	278.30	11596

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)	50	250	250	200	2.73	4.51	-1.78		
765 KV Gwalior-Agra (D/C)	2601	3321	3321	0	66.91	0.00	66.91		
400 KV Zerda-Kankroli	-2	78	90	181	0.00	0.15	-0.15		
400 KV Zerda-Bhinmal	57	127	206	134	1.67	0.00	1.67		
220 KV Auraiya-Malanpur	-31	11	0	27	0.00	0.31	-0.31		
220 KV Badod-Kota/Morak	-27	58	80	76	2.19	0.00	2.19		
Mundra-Mohindergarh(HVDC Bipole)	2496	2500	2522	0	59.02	0.00	59.02		
400 KV Vindhychal - Rihand	497	503	506	0	12.02	0.00	12.02		
765 kV Phagi-Gwalior (D/C)	998	1369	694	0	29.57	0.00	29.57		
Sub Total WR	6639	8217			174.12	4.97	169.15		
Pusauli Bypass/HVDC	400	400	400	0	9.06	0.00	9.06		
400 KV MZP- GKP (D/C)	286	522	610	0	10.18	0.00	10.18		
400 KV Patna-Balia(D/C) X 2	231	483	547	0	10.87	0.00	10.87		
400 KV B'Sharif-Balia (D/C)	76	308	356	0	5.83	0.00	5.83		
765 KV Pusauli-Balia	151	305	312	0	2.97	0.00	2.97		
765 KV Gaya-Fatehpur	12	224	314	0	4.57	0.00	4.57		
220 KV Pusauli-Sahupuri	160	132	205	0	3.54	0.00	3.54		
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
132 KV Son Ngr-Rihand	-41	-40	0	44	0.00	0.92	-0.92		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-200	51	148	200	0.51	0.00	0.51		
400 KV Barh -GKP (D/C)	188	286	310	0	5.75	0.00	5.75		
Sub Total ER	1263	2671			53.28	0.92	52.36		
+/- 800 KV BiswanathChariali-Agra	0	0	0	0	0	0	0		
Sub Total NER	0	0			0	0	0		
Total IR Exch	7902	10888			227.40	5.89	221.51		

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
36.79	3.56	40.35	10.51	23.43	7.99	38.36	0.39	-0.39
Total IR Schedule (MU)								
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
59.24	158.55	217.79	52.36	169.15	221.51	-6.88	10.59	3.72

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	23	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	0.00	2.95	32.24	84.06	62.66	3.69	1.40	0.13	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					
50.22	12.01	49.71	23.06	49.93	0.099	0.072	50.16	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	405	18:01	393	13:40	0.0	0.0	0.0	0.0
Gorakhpur	400	423	16:03	403	19:11	0.0	0.0	1.1	0.0
Barilly	400	419	16:02	399	22:13	0.0	0.0	0.0	0.0
Kanpur	400	420	08:00	403	23:06	0.0	0.0	0.0	0.0
Dadri	400	413	08:00	395	14:17	0.0	0.0	0.0	0.0
Ballabgarh	400	419	07:59	398	14:19	0.0	0.0	0.0	0.0
Bawana	400	418	18:01	399	14:18	0.0	0.0	0.0	0.0
Bassi	400	422	18:02	395	23:24	0.0	0.0	0.3	0.0
Hissar	400	416	18:00	396	11:50	0.0	0.0	0.0	0.0
Moga	400	414	18:03	397	11:42	0.0	0.0	0.0	0.0
Abdullapur	400	422	18:00	400	14:27	0.0	0.0	0.8	0.0
Nalagarh	400	425	17:02	403	14:54	0.0	0.0	6.7	0.0
Kishenpur	400	420	04:01	402	19:25	0.0	0.0	0.0	0.0
Wagoora	400	416	03:57	394	06:39	0.0	0.0	0.0	0.0
Amritsar	400	416	18:01	398	10:44	0.0	0.0	0.0	0.0
Kashipur	400	418	16:01	409	22:36	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	402	16:07	381	14:18	0.0	30.2	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	789	08:01	755	23:09	0.0	0.0	0.0	0.0
Balia	765	790	08:00	748	23:07	0.0	0.0	0.0	0.0
Moga	765	801	18:01	767	11:43	0.0	0.0	0.1	0.0
Agra	765	792	18:01	757	23:09	0.0	0.0	0.0	0.0
Bhiwani	765	797	17:58	766	11:44	0.0	0.0	0.0	0.0
Unnao	765	775	07:43	739	23:09	0.0	2.9	0.0	0.0
Lucknow	765	794	16:04	748	23:19	0.0	0.0	0.0	0.0
Meerut	765	804	18:02	764	14:18	0.0	0.0	0.6	0.0
Jhatikara	765	794	08:00	761	14:16	0.0	0.0	0.0	0.0
Barilly	765	778	08:02	752	22:33	0.0	0.0	0.0	0.0
Anta	765	768	00:00	768	00:00	0.0	0.0	0.0	0.0
Phagi	765	794	18:01	757	23:06	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	511.28	1605.30	511.57	1620.46	666.21	688.24
Pong	426.72	384.05	421.45	961.02	416.78	743.22	135.95	472.92
Tehri	829.79	740.04	822.15	1044.51	820.62	1015.00	254.00	156.00
Koteshwar	612.50	598.50	610.88	5.20	611.75	5.46	156.00	146.90
Chamera-I	760.00	748.75	753.10	0.00	0.00	0.00	166.81	166.81
Rihand	268.22	252.98	851.80	284.70	856.70	367.60	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	512.38	7.24	518.08	8.99	149.26	379.87

* 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	534	6	0	532	64	0	12.75	4.76	17.50
Delhi	148	100	0	639	-97	0	8.87	4.12	13.00
Haryana	1755	201	0	1655	194	0	41.59	-1.37	40.23
HP	-605	-268	0	-489	-521	0	-11.47	-8.09	-19.56
J&K	-471	115	0	-471	264	0	-11.31	5.06	-6.25
CHD	0	0	0	0	0	0	0.00	0.35	0.35
Rajasthan	-553	1900	2	-557	1138	2	-13.19	36.73	23.54
UP	750	983	0	465	0	0	13.37	8.25	21.62
Uttarakhand	-94	107	0	-249	41	0	-2.96	6.79	3.83
Total	1464	3143	2	1525	1083	2	37.65	56.59	94.25

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	534	286	866	6	0	0
Delhi	689	94	567	-197	0	0
Haryana	1758	1605	203	-764	0	0
HP	-388	-696	-70	-606	0	0
J&K	-471	-471	388	-35	0	0
CHD	0	0	69	0	0	0
Rajasthan	-533	-568	2173	515	2	2
UP	750	437	983	0	0	0
Uttarakhand	-80	-249	482	41	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 16.09.2015 :

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 :