

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्ट की पूर्ण व्यापक प्रास सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO1188682

Power Supply Position in Northern Region for 18.10.2015

Date of Reporting : 19.10.2015

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
41020	1847	42867	50.08	36137	2023	38159	50.07	895.7	37.96

* 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)	UI (OD:(+ve), UD: (-ve))
	Thermal	Hydro	Renewable/others \$	Total						
Punjab	47.40	10.14		57.53	56.24	56.56	0.31	114.09	0.00	
Haryana	62.18	0.55		62.73	67.27	66.15	-1.12	128.88	0.00	
Rajasthan	128.71	4.29	10.35	143.36	66.89	67.09	0.20	210.45	0.00	
Delhi	14.14			14.14	65.72	64.26	-1.46	78.40	0.02	
UP	142.60	9.70		152.30	113.52	110.78	-2.73	263.08	28.15	
Uttarakhand		14.60		14.60	16.46	18.87	2.41	33.47	0.00	
HP		8.37		8.37	13.88	14.05	0.17	22.41	0.00	
J & K		11.05	0.00	11.05	28.71	30.45	1.74	41.50	9.79	
Chandigarh				0.00	3.73	3.46	0.27	3.46	0.00	
Total	395.02	58.70	10.35	464.08	432.41	431.67	-0.21	895.75	37.96	

* 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)	UI/OA/PX (OD/Import: (+ve), UD/Export: (-ve))
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction		
Punjab	5141	0	-88	39	4190	0	-5	-55	5141	
Haryana	6771	0	-270	-187	4511	0	158	-241	6771	
Rajasthan	8852	0	-275	106	9379	0	233	1144	9719	
Delhi	3762	0	-87	291	3169	0	78	18	3762	
UP	11717	1375	-120	54	11048	1740	-211	244	11933	
Uttarakhand	1647	0	34	191	1315	0	133	197	1647	
HP	1061	0	1	-603	804	0	75	-20	1140	
J&K	1889	472	-56	224	1601	283	129	191	2055	
Chandigarh	180	0	-2	-25	120	0	2	0	180	
Total	41020	1847	-863	91	36137	2023	592	1479	41020	

* 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 (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	1875	2030	2030	45.16	1882	44.68	0.48	
Rihand I STPS (2*500)	1000	850	812	917	19.58	816	19.67	-0.09	
Rihand II STPS (2*500)	1000	943	841	1039	22.12	922	21.59	0.53	
Rihand III STPS (2*500)	1000	480	454	514	11.24	469	11.25	0.00	
Dadri I STPS (4*210)	840	800	311	452	8.83	368	8.80	0.02	
Dadri II STPS (2*490)	980	970	695	700	16.16	673	16.75	-0.59	
Unchahar I TPS (2*210)	420	200	168	185	3.96	165	4.31	-0.35	
Unchahar II TPS (2*210)	420	400	302	347	7.23	301	7.52	-0.30	
Unchahar III TPS (1*220)	210	200	128	153	3.19	133	3.53	-0.34	
ISTPP (Jhajjar) (3*500)	1500	1436	766	632	15.66	653	16.02	-0.36	
Dadri GPS (4*130.19+2*154.51)	830	672	299	316	7.11	296	7.18	-0.07	
Anta GPS (3*88.71+1*153.2)	419	409	0	0	0.00	0	0.00	0.00	
Auraiya GPS (4*111.19+2*109.30)	663	527	262	248	5.73	239	6.01	-0.28	
Dadri Solar	5	1	0	0	0.02	1	0.02	-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	-0.05	
KHEP	800	860	767	0	5.46	227	5.10	0.36	
Sub Total (A)	12112	10628	7835	7533	171	7145	173	-1	
B. NPC									
NAPS (2*220)	440	389	430	433	9.44	393	9.34	0.10	
RAPS- B (2*220)	440	393	435	439	9.51	396	9.43	0.08	
RAPS- C (2*220)	440	242	227	229	4.46	186	5.81	-1.35	
Sub Total (B)	1320	1024	1092	1101	23.40	975	24.58	-1.17	
C. NHPC									
Chamera I HPS (3*180)	540	540	158	0	1.71	71	1.62	0.09	
Chamera II HPS (3*100)	300	295	204	0	2.44	101	2.47	-0.04	
Chamera III HPS (3*77)	231	229	229	0	1.62	68	1.50	0.12	
Bairasuli HPS(3*60)	180	179	174	0	0.78	33	0.70	0.08	
Saikal-HPS (6*115)	690	168	405	261	4.69	195	4.08	0.62	
Tanakpur-HPS (3*40)	94	47	48	51	1.26	53	1.14	0.13	
Uri-I HPS (4*120)	480	194	302	226	5.19	216	4.68	0.51	
Uri-II HPS (4*60)	240	124	176	121	3.03	126	2.97	0.07	
Dhauliganga-HPS (4*70)	280	280	281	0	1.95	81	1.85	0.10	
Dulhasti-HPS (3*130)	390	329	267	266	6.89	287	6.65	0.23	
Sewa-II HPS (3*40)	120	119	97	0	0.75	31	0.65	0.10	
Parbati 3 (4*130)	520	246	268	0	0.81	34	0.78	0.03	
Sub Total (C)	4065	2751	2609	925	31	1297	29	2	
D.SJVNL									
NJPC (6*250)	1500	1605	1404	0	14.12	588	13.98	0.15	
Rampur HEP (6*68.67)	412	432	407	0	4.11	171	3.90	0.21	
Sub Total (D)	1912	2037	1811	0	18.23	760	17.87	0.36	
E. THDC									
Tehri HPS (4*250)	1000	1080	920	0	7.65	319	7.50	0.15	
Koteshwar HPS (4*100)	400	104	91	91	2.56	107	2.50	0.06	
Sub Total (E)	1400	1184	1011	91	10.21	426	10.00	0.21	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	610	1049	375	14.78	616	14.65	0.13	
Dehar HPS (6*165)	990	264	660	155	6.39	266	6.34	0.05	
Pong HPS (6*66)	396	182	318	132	4.42	184	4.36	0.06	
Sub Total (F)	2765	1056	2027	662	25.59	1066	25.34	0.25	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	89	17	1.00	42	0.96	0.04	
KARCHAM W ANGTUO HPS(IPP) (4*250)	1000	0	0	0	0.00	0	7.44	-7.44	
Malana Stg-II HPS (2*50)	100	0	105	20	0.48	20	0.45	0.03	
Shree Cement TPS (2*150)	300	0	260	262	6.19	258	6.22	-0.03	
Budhil HPS(IPP) (2*35)	70	0	75	0	0.42	17	0.42	0.00	
Sub Total (G)	1662	0	529	299	8.08	337	15.49	-7.40	
H. Total Regional Entities (A-G)	25237	18680	16914	10611	288.14	12006	294.96	-6.82	

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	320	320	7.22	301	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	92	90	1.96	82	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	201	206	4.39	183	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	709	926	24.76	1032	
	Talwandi Saboo (1*660)	660	543	369	9.06	378	
	Thermal (Total)	4700	1865	1911	47.40	1975	
	Total Hydro	1000	441	421	10.14	422	
Total Punjab	5700	2306	2332	57.53	2397		
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	649	635	14.81	617	
	DCRTPP (Yamuna nagar) (2*300)	600	424	452	10.57	440	
	Faridabad GPS (NTPC)	432	155	167	3.84	160	
	RGTTP (khedar) (IPP) (2*600)	1200	1145	763	22.37	932	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP) (2*660)	1320	612	376	10.59	441	
	Thermal (Total)	4944	2985	2393	62.18	2591	
	Total Hydro	62	25	16	0.55	23	
	Total Haryana	5006	3010	2409	62.73	2614	
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	857	898	20.60	859
		suratgarh TPS (6*250)	1500	983	1007	24.46	1019
Chabra TPS (4*250)		1000	191	227	4.95	206	
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	209	214	5.20	217	
RAPS A (NPC) (1*100+1*200)		300	160	161	3.97	165	
Barsingar (NLC) (2*125)		250	168	167	3.91	163	
Giral LTPS (2*125)		250	0	0	0.00	0	
Rajwest LTPS (IPP) (8*135)		1080	642	710	15.94	664	
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0	
Kalisindh Thermal(2*600)		1200	912	1160	24.13	1005	
Kawati(Adani) (2*660)		1320	928	1200	25.56	1065	
Thermal (Total)		8876	5050	5744	129	5363	
Total Hydro		550	205	164	4.29	179	
Wind power		3214	699	354	9.03	376	
Biomass		99	18	18	0.44	18	
Solar		730	3	0	0.89	37	
Renewable/Others (Total)		4043	720	372	10.35	431	
Total Rajasthan		13469	5975	6280	143.36	5973	
UP		Anpara TPS (3*210+2*500)	1630	1371	1349	31.50	1313
		Obra TPS (2*50+2*94+5*200)	1194	417	457	10.30	429
		Paricha TPS (2*110+2*220+2*250)	1140	446	444	10.70	446
		Panki TPS (2*105)	210	50	59	1.30	54
	Haridwar TPS (1*60+1*105+2*250)	665	534	511	12.40	517	
	Tanda TPS (NTPC) (4*110)	440	210	281	6.60	275	
	Roza TPS (IPP) (4*300)	1200	765	1040	24.40	1017	
	Anpara-C (IPP) (2*600)	1200	1076	1084	25.60	1067	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	282	405	8.10	338	
	Anpara-D(1*500)	500	0	0	0.00	0	
	Lalitpur TPS(1*660)	660	392	391	9.30	388	
	Thermal (Total)	9289	5543	6021	140	5842	
	Vishnuparyag HPS (IPP)(4*110)	440	221	212	5.00	208	
	Alakanada(4*82.5)	330	126	118	2.80	117	
	Other Hydro	527	97	71	1.90	79	
	Cogeneration	981	100	100	2.40	100	
	Total UP	11567	6087	6522	152	6346	
Uttarakhand	Total Hydro	1398	705	623	14.60	608	
	Total Uttarakhand	1398	705	623	14.60	608	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	35	37	0.92	38	
	Pragati Gas Turbine (2x104+ 1x122)	330	148	151	3.60	150	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	250	6.01	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.62	151	
	Thermal (Total)	2917	598	603	14.14	589	
	Total Delhi	2917	598	603	14.14	589	
HP	Baspa HPS (IPP) (3*100)	300	72	62	2.13	89	
	Malana HPS (IPP) (2*43)	86	85	0	0.47	20	
	Other Hydro	878	237	242	5.77	240	
	Total HP	1264	394	304	8.37	349	
J & K	Baglihar HPS (IPP) (3*150)	450	390	390	9.36	390	
	Other Hydro/IPP	560	74	65	1.69	71	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	464	455	11.05	461	
Total State Control Area Generation		42521	19539	19528	464.08	19337	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			5340	7893	163.23	6801	
Total Regional Availability(Gross)		67758	41793	38032	915.44	38143	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8419	1716	92.09	3837
State Control Area Hydro	6581	2678	2384	59	2446
Total Regional Hydro	18815	11097	4100	150.79	6283

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		150		150	0	2.04	0.00	2.04
765 KV Gwalior-Agra (D/C)	2044		2811		2811	0	54.26	0.00	54.26
400 KV Zerda-Kankrol	-57		81		132	75	0.00	0.10	-0.10
400 KV Zerda-Bhinmal	-38		132		200	80	1.14	0.00	1.14
220 KV Auraiya-Malanpur	-113		-114		0	3	0.00	0.00	0.00
220 KV Badod-Kota/Morak	-39		-4		35	-109	0.00	-0.88	0.88
Mundra-Mohindergerh(HVDC Bipole)	2116		2113		2121	0	51.13	0.00	51.13
400 KV Vindhychal - Rihand	0		0		0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	662		992		992	0	20.13	0.00	20.13
Sub Total WR	4625		6161				128.70	-0.78	129.48
Pusauli Bypass/HVDC	400		400		400	0	9.05	0.00	9.05
400 KV MZP- GKP (D/C)	14		240		302	24	3.76	0.00	3.76
400 KV Patna-Balia(D/C) X 2	133		311		351	0	7.03	0.00	7.03
400 KV B'Shanif-Balia (D/C)	-72		77		150	72	1.75	0.00	1.75
765 KV Gaya-Balia	29		117		206	0	1.42	0.00	1.42
765 KV Gaya-Fatehpur	18		176		263	4	3.22	0.00	3.22
220 KV Pusauli-Sahupuri	182		138		182	0	3.50	0.00	3.50
132 KV K'nasa-Sahupuri	0		0		0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-25		-32		0	32	0.00	0.56	-0.56
132 KV Garhwa-Rihand	0		0		0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-181		-1		90	196	0.00	1.08	-1.08
400 KV Barh -GKP (D/C)	217		306		306	0	5.59	0.00	5.59
Sub Total ER	715		1732				35.31	1.64	33.68
+/- 800 KV BiswanathChariali-Agra	0		0		150	0	0.07	0.00	0.07
Sub Total NER	0		0				0.07	0.00	0.07
Total IR Exch	5340		7893				164.08	0.86	163.23

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
35.14	2.21	37.36	3.95	-8.52	13.28	10.99	1.94	-1.94
Total IR Schedule (MU)								
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
56.53	93.68	150.21	33.68	129.48	163.15	-22.86	35.80	12.94

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	0		0		0	0	0	0	0.00

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	0.29	9.68	61.62	77.00	10.52	2.88	0.00	0.00

<----- Frequency (Hz) ----->

Maximum				Minimum				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Freq	Time	Freq	Time	Hz	(Hz)	MAX (Hz)	MIN (Hz)					
50.17	7.03	49.75	18.11	49.98	0.042	0.062	50.18	49.95				

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	401	01:14	399	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	419	07:29	404	00:00	0.0	0.0	0.0	0.0
Bareilly	400	415	08:49	401	18:11	0.0	0.0	0.0	0.0
Kanpur	400	411	21:33	404	18:23	0.0	0.0	0.0	0.0
Dadri	400	419	03:30	404	18:36	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	04:02	408	18:11	0.0	0.0	18.0	0.0
Bawana	400	421	03:31	405	18:36	0.0	0.0	0.3	0.0
Bassi	400	424	21:31	402	00:00	0.0	0.0	2.6	0.0
Hissar	400	417	01:28	401	18:23	0.0	0.0	0.0	0.0
Moga	400	423	02:29	406	18:11	0.0	0.0	13.0	0.0
Abdullapur	400	428	01:55	404	18:42	0.0	0.0	28.8	0.0
Nalagarh	400	433	03:59	411	18:22	0.0	0.0	57.0	8.4
Kishenpur	400	431	02:59	403	18:45	0.0	0.0	32.1	0.8
Wagoora	400	418	03:58	378	19:23	1.1	15.2	0.0	0.0
Amritsar	400	428	03:59	406	18:21	0.0	0.0	24.6	0.0
Kashipur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Hamirpur	400	427	03:30	406	19:06	0.0	0.0	12.6	0.0
Rishikesh	400	0	00:00	9999	00:00	0.0	0.0	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	777	21:32	749	18:36	0.0	0.0	0.0	0.0
Balia	765	771	07:25	749	00:00	0.0	0.0	0.0	0.0
Moga	765	802	03:31	773	18:22	0.0	0.0	1.8	0.0
Agra	765	791	21:32	763	05:46	0.0	0.0	0.0	0.0
Bhiwani	765	799	03:59	775	18:22	0.0	0.0	0.0	0.0
Unnao	765	763	21:33	738	18:41	0.0	2.7	0.0	0.0
Lucknow	765	774	08:00	752	00:00	0.0	0.0	0.0	0.0
Meerut	765	806	03:59	778	18:22	0.0	0.0	16.1	0.0
Jhatikara	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Anta	765	783	20:59	764	00:00	0.0	0.0	0.0	0.0
Phagi	765	788	21:23	760	00:00	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	510.15	1560.04	508.43	1470.42	319.39	413.06
Pong	426.72	384.05	419.68	875.55	415.17	680.86	85.01	257.37
Tehri	829.79	740.04	819.45	991.26	824.50	1086.79	82.53	172.00
Koteshwar	612.50	598.50	610.94	4.69	608.94	3.98	172.00	168.58
Chamera-I	760.00	748.75	758.10	0.00	0.00	0.00	67.43	46.32
Rihand	268.22	252.98	851.60	281.40	854.70	333.20	0.00	0.00
RPS	352.80	343.81	1149.08	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	512.72	3.60	511.26	3.15	57.69	149.01

* 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	-189	134	0	-195	234	0	-4.57	4.96	0.39
Delhi	-196	213	0	-196	486	0	-4.14	8.46	4.31
Haryana	-357	116	0	-340	154	0	-8.41	1.77	-6.64
HP	-50	30	0	127	-730	0	1.34	-4.34	-3.00
J&K	206	-15	0	189	35	0	4.44	1.32	5.77
CHD	0	0	0	0	-25	0	0.00	-0.11	-0.11
Rajasthan	-5	1147	2	-5	110	2	1.63	19.86	21.48
UP	244	0	0	54	0	0	2.58	0.00	2.58
Uttarakhand	197	0	0	197	-5	0	4.72	0.08	4.80
Total	-150	1627	2	-169	259	2	-2.42	32.00	29.58

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-189	-195	252	132	0	0
Delhi	-121	-246	613	-8	0	0
Haryana	-340	-357	222	-289	0	0
HP	127	-50	44	-867	0	0
J&K	255	140	174	-15	0	0
CHD	0	0	25	-60	0	0
Rajasthan	190	-5	1478	-39	2	2
UP	271	-33	0	0	0	0
Uttarakhand	197	197	173	-118	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 18.10.2015 :
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 :