

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(सार्वजनिक की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 11.11.2015
Date of Reporting : 12.11.2015

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 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
37771	492	38263	50.10	30962	259	31221	50.17	782.6	29.78

* 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:

UI [OD:(+ve), UD:(-ve)]

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	26.86	10.35		37.21	42.14	41.81	-0.33	79.02	0.00
Haryana	39.68	0.43		40.11	57.27	57.34	0.08	97.46	0.00
Rajasthan	108.58	5.04	12.84	126.46	65.60	68.65	3.05	195.11	0.00
Delhi	13.22			13.22	40.13	40.03	-0.10	53.25	0.00
UP	142.33	6.40		148.73	123.54	120.05	-3.49	268.79	20.15
Uttarakhand		8.25		8.25	19.32	19.97	0.65	28.22	0.14
HP		6.19		6.19	10.51	11.38	0.86	17.57	0.00
J & K		9.90	0.00	9.90	30.52	30.27	-0.25	40.17	9.49
Chandigarh				0.00	3.40	3.00	0.27	3.00	0.00
Total	330.68	46.56	12.84	390.08	392.43	392.50	0.74	782.58	29.78

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

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

State	Evening Peak (19:00 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	3412	0	-22	-1033	3062	0	-74	-403	4218
Haryana	5322	0	-315	-454	3327	0	24	-113	5578
Rajasthan	7464	0	-244	185	8550	0	290	531	9401
Delhi	2797	0	-103	-143	1910	0	130	-710	2848
UP	14441	0	309	10793	0	-134	98	14503	
Uttarakhand	1449	40	-129	251	1122	0	-83	334	1460
HP	915	0	-23	-632	634	0	62	110	986
J&K	1809	452	36	138	1470	259	-84	251	1891
Chandigarh	162	0	-53	0	95	0	-2	-30	162
Total	37771	492	-544	-411	30962	259	129	68	37771

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

Diversity is 1.09

III. Regional Entities :

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

A. NTPC	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
Rihand I STPS (2*500)	1000	870	735	768	17.44	727	18.51	-1.07	
Rihand II STPS (2*500)	1000	948	760	723	17.79	741	18.63	-0.83	
Rihand III STPS (2*500)	1000	963	707	856	18.73	790	19.47	-0.74	
Dadri I STPS (4*210)	840	810	140	140	3.57	149	3.57	0.00	
Dadri II STPS (2*490)	980	980	347	325	8.32	347	8.90	-0.59	
Unchahar I TPS (2*210)	420	406	279	284	6.46	269	7.38	-0.93	
Unchahar II TPS (2*210)	420	404	257	264	5.92	246	6.89	-0.98	
Unchahar III TPS (1*220)	210	202	138	129	2.95	123	3.52	-0.57	
ISTPP (Jhajjar) (3*500)	1500	1500	654	714	15.42	643	15.77	-0.35	
Dadri GPS (4*130.19+2*154.51)	830	645	430	413	10.07	420	10.52	-0.44	
Anta GPS (3*88.71+1*153.2)	419	415	253	254	5.99	249	6.47	-0.48	
Auraiya GPS (4*111.19+2*109.30)	663	652	197	205	4.69	195	4.72	-0.03	
Dadri Solar	5	1	0	0	0.00	0	0.02	-0.02	
Unchahar Solar	10	1	0	0	0.00	0	0.02	-0.02	
Singrauli Solar	15	2	0	0	0.00	0	0.04	-0.04	
KHEP	800	655	651	0	3.42	142	3.40	0.02	
Sub Total (A)	12112	11345	7304	6999	163	6773	170	-8	
B. NPC	NAPS (2*220)	440	400	442	438	9.74	406	9.60	0.14
RAPS- B (2*220)	440	393	434	438	9.44	393	9.43	0.01	
RAPS- C (2*220)	440	410	451	448	9.79	408	9.84	-0.05	
Sub Total (B)	1320	1203	1327	1324	28.97	1207	28.87	0.10	
C. NHPC	Chamera I HPS (3*180)	540	540	538	0	3.58	149	3.46	0.12
Chamera II HPS (3*100)	300	200	201	0	0.00	0	1.75	-1.75	
Chamera III HPS (3*77)	231	229	198	0	1.08	45	1.05	0.03	
Bairasuli HPS(3*60)	180	179	175	0	0.75	31	0.75	0.00	
Salal-HPS (6*115)	690	212	445	220	5.70	238	5.06	0.64	
Tanakpur-HPS (3*40)	94	34	34	28	0.85	36	0.82	0.04	
Uri-I HPS (4*120)	480	458	470	404	11.12	463	10.95	0.17	
Uri-II HPS (4*60)	240	238	240	242	5.74	239	5.72	0.02	
Dhauliganga-HPS (4*70)	280	280	206	0	1.41	59	1.25	0.15	
Dulhasti-HPS (3*130)	390	387	398	0	4.43	184	4.30	0.13	
Sewa-II HPS (3*40)	120	119	124	0	0.64	27	0.60	0.04	
Parbati 3 (4*130)	520	122	131	0	0.81	34	0.39	0.42	
Sub Total (C)	4065	2998	3160	894	36	1504	36	0	
D.SJVNL	NJPC (6*250)	1500	1557	1342	0	9.50	396	9.77	-0.27
Rampur HEP (6*68.67)	412	432	372	0	2.73	114	2.67	0.06	
Sub Total (D)	1912	1989	1714	0	12.23	509	12.44	-0.21	
E. THDC	Tehri HPS (4*250)	1000	1068	1043	0	6.53	272	6.47	0.06
Koteshwar HPS (4*100)	400	92	98	91	2.19	91	2.20	-0.01	
Sub Total (E)	1400	1160	1141	91	8.72	364	8.67	0.05	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	594	1049	375	14.40	600	14.25	0.15
Dehar HPS (6*165)	990	178	495	0	4.37	182	4.28	0.08	
Pong HPS (6*66)	396	211	318	126	4.74	197	5.07	-0.33	
Sub Total (F)	2765	983	1862	501	23.50	979	23.60	-0.10	
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	87	0	0.70	29	0.66	0.04
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	820	0	5.43	226	5.52	-0.09	
Malana Stg-II HPS (2*50)	100	0	0	0	0.27	11	0.25	0.02	
Shree Cement TPS (2*150)	300	0	0	188	4.93	206	4.93	0.00	
Budhil HPS(IPP) (2*35)	70	0	37	0	0.27	11	0.26	0.01	
Sub Total (G)	1662	0	944	188	11.61	484	11.62	-0.01	
H. Total Regional Entities (A-G)	25237	19678	17452	9997	283.69	11820	291.49	-7.80	

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	160	3.51	146	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	2.01	84	
	Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250)	920	201	205	4.59	191	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	699	705	16.75	698	
	Talwandi Saboo (2*660)	1320	0	0	0.00	0	
	Thermal (Total)	5360	1150	1160	26.66	1119	
	Total Hydro	1000	393	429	10.35	431	
	Total Punjab	6360	1543	1589	37.21	1550	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	545	459	11.08	462	
Faridabad GPS (NTPC)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	1118	760	19.28	803	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	376	375	9.32	388	
Thermal (Total)		4944	2039	1594	39.68	1653	
Total Hydro		62	17	24	0.43	18	
Total Haryana		5006	2056	1618	40.11	1671	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	480	495	11.23	468
	suratgarh TPS (6*250)	1500	214	211	5.33	222	
	Chabra TPS (4*250)	1000	565	540	14.24	593	
	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	207	209	5.13	214	
	RAPS A (NPC) (1*100+1*200)	300	161	160	3.96	165	
	Barsingar (NLC) (2*125)	250	186	188	4.36	182	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	591	835	18.16	757	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	904	905	22.53	939	
	Kawai(Adani) (2*660)	1320	867	1066	23.65	986	
	Thermal (Total)	8876	4175	4609	109	4524	
	Total Hydro	550	205	203	5.04	210	
	Wind power	3214	384	884	12.17	507	
	Biomass	99	28	28	0.67	28	
	Solar	730	0	0	0.00	0	
	Renewable/Others (Total)	4043	412	912	12.84	535	
	Total Rajasthan	13469	4792	5724	126.46	5269	
	UP	Anpara TPS (3*210+2*500)	1368	1368	1390	32.60	1358
Obra TPS (2*50+2*94+5*200)		1194	370	465	10.50	438	
Paricha TPS (2*110+2*220+2*250)		1140	586	685	14.90	621	
Panki TPS (2*105)		210	0	68	1.00	42	
Harduaganj TPS (1*60+1*105+2*250)		665	542	520	12.60	525	
Tanda TPS (NTPC) (4*110)		440	403	370	7.83	326	
Roza TPS (IPP) (4*300)		1200	838	824	19.30	804	
Anpara-C (IPP) (2*600)		1200	1080	1080	25.80	1075	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	403	253	7.10	296	
Anpara-D(1*500)		500	0	0	0.00	0	
Lalitpur TPS(1*660)		660	427	425	10.10	421	
Bara(1*660)		660	0	0	0.00	0	
Thermal (Total)		9949	6017	6080	142	5906	
Vishnuparyag HPS (IPP)(4*110)		440	127	112	2.80	117	
Alaknanda(4*82.5)		330	81	80	1.90	79	
Other Hydro		527	269	33	1.70	71	
Cogeneration		981	100	100	0.60	25	
Total UP		12227	6594	6405	149	6197	
Uttarakhand		Total Hydro	1398	616	237	8.25	344
		Total Uttarakhand	1398	616	237	8.25	344
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1	
	Delhi Gas Turbine (6x30 + 3x34)	282	35	36	0.00	0	
	Pragati Gas Turbine (2x104+ 1x122)	330	157	148	3.69	154	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	251	250	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.53	147	
	Thermal (Total)	2917	608	599	13.22	551	
	Total Delhi	2917	608	599	13.22	551	
HP	Baspa HPS (IPP) (3*100)	300	175	58	1.74	72	
	Malana HPS (IPP) (2*43)	86	45	0	0.31	13	
	Other Hydro	878	185	172	4.14	172	
	Total HP	1264	405	230	6.19	258	
J & K	Baglihar HPS (IPP) (3*150)	450	300	300	7.20	300	
	Other Hydro/IPP	560	110	117	2.70	113	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	410	417	9.90	413	
Total State Control Area Generation		43841	17024	16819	390.08	16253	
J. Net Inter Regional Exchange [(Import +ve)/Export (-ve)]			4329	4349	149.70	6238	
Total Regional Availability(Gross)		69078	38805	31165	823.47	34311	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9436	1486	90.37	3765
State Control Area Hydro	6581	2523	1765	47	1940
Total Regional Hydro	18815	11959	3251	136.93	5706

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)		Off Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW		MW		Import	Export	Import	Export	
Vindhychal(HVDC B/B)	100		100		250	-100	2.33	-0.37	2.70
765 KV Gwalior-Agra (D/C)	2725		2180		2956	0	51.42	0.00	51.42
400 KV Zarda-Kankroli	-32		-166		0	193	0.00	2.79	-2.79
400 KV Zarda-Bhinmal	7		-118		70	167	0.00	1.30	-1.30
220 KV Auraiya-Malanpur	-47		-113		0	150	0.00	2.17	-2.17
220 KV Badod-Kota/Morak	-25		-98		6	91	0.00	1.92	-1.92
Mundra-Mohinderorah(HVDC Bipole)	1298		1999		2006	0	42.44	0.00	42.44
400 KV Vindhyachal - Rihand	0		0		0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	627		669		435	0	18.81	0.00	18.81
Sub Total WR	4653		4453				115.00	7.80	107.19
Pusaull Bypass/HVDC	50		50		50	0	1.26	0.00	1.26
400 KV MZP -GKP (D/C)	-172		-244		400	8	5.70	0.00	5.70
400 KV Patna-Balia(D/C) X 2	289		349		390	0	7.88	0.00	7.88
400 KV B'Sharif-Balia (D/C)	82		121		181	0	2.60	0.00	2.60
765 KV Gaya-Balia	169		158		239	0	1.76	0.00	1.76
765 KV Gaya-Fatehpur	-38		131		246	80	2.70	0.00	2.70
220 KV Pusaull-Sahupuri	181		123		192	0	3.22	0.00	3.22
132 KV K'nasa-Sahupuri	0		0		0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-27		-24		0	27	0.00	0.00	0.00
132 KV Garhwa-Rihand	0		0		0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-150		40		182	184	0.51	0.00	0.51
400 KV Barh -GKP (D/C)	-308		-308		344	0	7.19	0.00	7.19
Sub Total ER	76		396				32.83	0.00	32.83
+/- 800 KV BiswanathCharialli-Agra	-400		-500		0	500	0.00	-9.68	9.68
Sub Total NER	-400		-500				0.00	-9.68	9.68
Total IR Exch	4329		4349				147.83	-1.88	149.70

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	Total	Through ER	Through WR	Through ER	Through WR
23.75	1.10	24.85	3.39	-17.60	4.63	4.63	7.73	6.02	-6.02
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	Total
38.89	78.34	117.23	42.51	107.19	149.70	3.62	28.85	32.47	

V(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)		Off Peak(03:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW		MW		Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-29		-31		0	32	0	1	-0.72

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	1.86	25.30	53.11	27.13	16.62	1.34	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					
50.27	6.03	49.81	18.07	50.04	0.062	0.066	50.20	0.00

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	403	14:23	398	05:47	0.0	0.0	0.0	0.0
Gorakhpur	400	423	21:46	408	05:49	0.0	0.0	5.0	0.0
Bareilly(PG)400kV	400	421	05:03	402	18:07	0.0	0.0	0.1	0.0
Kanpur	400	411	03:02	406	18:07	0.0	0.0	4.0	0.0
Dadri	400	427	04:00	400	18:07	0.0	0.0	21.7	0.0
Ballabgarh	400	430	04:00	404	18:07	0.0	0.0	37.9	0.0
Bawana	400	428	03:55	403	18:09	0.0	0.0	28.6	0.0
Bassi	400	426	21:44	395	06:45	0.0	0.0	8.0	0.0
Hissar	400	422	04:00	398	18:20	0.0	0.0	3.0	0.0
Moga	400	425	02:41	403	18:14	0.0	0.0	19.7	0.0
Abdullapur	400	428	01:42	400	18:22	0.0	0.0	26.9	0.0
Nalagarh	400	436	02:40	411	18:20	0.0	0.0	60.5	19.3
Kishenpur	400	428	03:00	400	18:18	0.0	0.0	18.9	0.0
Wagoora	400	412	03:38	378	18:27	2.8	25.5	0.0	0.0
Amritsar	400	430	02:22	408	18:19	0.0	0.0	41.9	0.0
Kashipur	400	421	04:00	411	17:57	0.0	0.0	2.4	0.0
Hamirpur	400	430	03:03	405	18:19	0.0	0.0	39.2	0.0
Rishikesh	400	420	04:03	384	17:59	0.0	10.1	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	781	21:46	638	16:25	0.1	0.1	0.0	0.0
Balia	765	779	21:56	755	18:39	0.0	0.0	0.0	0.0
Moga	765	802	04:00	772	06:41	0.0	0.0	10.6	0.0
Agra	765	795	21:47	758	18:07	0.0	0.0	0.0	0.0
Bhiwani	765	803	21:47	764	18:05	0.0	0.0	10.0	0.0
Unnao	765	777	21:46	753	18:09	0.0	0.0	0.0	0.0
Lucknow	765	786	21:56	759	18:07	0.0	0.0	0.0	0.0
Meerut	765	809	05:03	760	18:12	0.0	0.0	14.1	0.0
Jhatikara	765	805	00:00	759	00:00	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	803	00:00	761	00:00	0.0	0.0	0.0	0.0
Anta	765	783	20:11	759	06:24	0.0	0.0	0.0	0.0
Phagi	765	786	04:01	751	06:42	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	508.44	1470.42	505.67	1339.30	194.25	403.66
Pong	426.72	384.05	417.68	781.19	412.27	577.87	51.88	286.93
Tehri	829.79	740.04	815.75	919.00	822.35	1053.00	64.65	150.00
Koteshwar	612.50	598.50	611.02	5.20	609.17	4.21	150.00	144.53
Chamera-I	760.00	748.75	758.25	0.00	0.00	0.00	80.20	96.92
Rihand	268.22	252.98	850.50	263.50	853.30	309.60	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	508.74	3.89	510.39	1.71	50.60	203.02

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-632	229	0	-1110	77	0	-14.87	3.04	-11.83
Delhi	-694	-16	0	-496	353	0	-13.37	3.43	-9.93
Haryana	-317	204	0	-491	38	0	-8.53	2.19	-6.34
HP	61	49	0	-46	-586	0	2.33	-5.08	-2.76
J&K	376	-126	0	238	-101	0	7.76	-1.28	6.48
CHD	-30	0	0	0	0	0	-0.24	-0.09	-0.34
Rajasthan	0	531	0	0	185	0	6.71	8.91	15.62
UP	98	0	0	593	685	0	1.78	4.43	6.21
Uttarakhand	195	140	0	195	56	0	4.67	2.41	7.08
Total	-943	1011	0	-1118	707	0	-13.76	17.96	4.21

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-431	-1136	229	59	0	0
Delhi	-492	-694	408	-73	0	0
Haryana	-302	-491	204	-159	0	0
HP	232	-193	49	-798	0	0
J&K	376	218	0	-176	0	0
CHD	0	-30	0	-80	0	0
Rajasthan	533	0	850	11	0	0
UP	979	-314	1468	0	0	0
Uttarakhand	195	195	340	21	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 11.11.2015 :
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 :