

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GO188682

Power Supply Position in Northern Region for 17.12.2015

Date of Reporting : 18.12.2015

I. Regional Availability/Demand:

Evening Peak (19:00 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
39829	2000	41829	50.07	29228	432	29659	50.09	833.4	36.22

* 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	47.47	12.05		59.52	44.77	44.70	-0.07	104.22	0.00
Haryana	58.30	0.42		58.72	57.27	57.07	-0.21	115.78	0.00
Rajasthan	128.98	4.36	12.08	145.42	70.42	70.10	-0.32	215.52	0.00
Delhi	11.60			11.60	49.13	50.04	0.91	61.64	0.14
UP	123.73	4.40		128.13	98.91	98.72	-0.19	226.86	24.74
Uttarakhand		6.63		6.63	25.94	29.11	3.17	35.74	1.14
HP		4.90		4.90	20.31	21.78	1.47	26.67	0.00
J & K		5.66	0.00	5.66	35.69	37.66	1.97	43.32	10.20
Chandigarh				0.00	3.60	3.65	0.27	3.65	0.00
Total	370.08	38.41	12.08	420.57	406.04	412.83	7.01	833.40	36.22

* 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 (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	4995	0	-370	-782	3090	0	11	-372	5459
Haryana	6302	0	50	-79	3450	0	-49	-32	6302
Rajasthan	9726	0	-325	466	8509	0	86	713	10478
Delhi	3250	22	35	-98	1458	0	122	-1214	3470
UP	10274	1430	41	-144	8937	130	-177	115	10274
Uttarakhand	1868	75	92	627	1179	0	146	432	1883
HP	1329	0	26	353	804	0	94	223	1397
J&K	1892	473	105	661	1710	302	95	662	1964
Chandigarh	193	0	-7	-10	91	0	12	-30	205
Total	39829	2000	-353	1015	29228	432	341	477	39829

* 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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1865	2071	2083	45.83	1910	44.60	1.23
	Rihand I STPS (2*500)	1000	858	883	854	19.66	819	19.64	0.02
	Rihand II STPS (2*500)	1000	973	847	744	21.40	891	20.95	0.44
	Rihand III STPS (2*500)	1000	469	396	464	11.03	459	10.42	0.60
	Dadri I STPS (4*210)	840	810	285	275	7.02	292	7.20	-0.18
	Dadri II STPS (2*490)	980	980	385	325	9.00	375	9.81	-0.81
	Unchahar I TPS (2*210)	420	406	315	310	7.81	325	7.81	-0.01
	Unchahar II TPS (2*210)	420	404	311	310	7.44	310	7.38	0.05
	Unchahar III TPS (1*220)	210	202	177	155	3.83	160	3.67	0.16
	ISTPP (Jhajjar) (3*500)	1500	1500	708	616	15.34	639	15.73	-0.40
	Dadri GPS (4*130.19+2*154.51)	830	549	544	583	15.65	652	16.19	-0.54
	Anta GPS (3*88.71+1*153.2)	419	420	202	193	5.27	220	5.39	-0.12
	Auraiya GPS (4*111.19+2*109.30)	663	658	232	299	6.69	279	6.84	-0.15
	Dadri Solar	5	1	0	0	0.01	1	0.01	0.00
	Unchahar Solar	10	1	0	0	0.02	1	0.03	0.00
	Singrauli Solar	15	2	0	0	0.02	1	0.04	-0.03
	KHEP	800	655	575	0	2.99	124	2.70	0.29
Sub Total (A)	12112	10752	7931	7211	179	7458	178	1	
B. NPC	NAPS (2*220)	440	203	222	227	4.81	200	4.87	-0.07
	RAPS-B (2*220)	440	399	438	442	9.55	398	9.58	-0.03
	RAPS-C (2*220)	440	418	457	461	9.94	414	10.03	-0.09
	Sub Total (B)	1320	1020	1117	1130	24.30	1012	24.48	-0.18
C. NHPC	Chamera I HPS (3*180)	540	540	559	0	2.28	95	2.00	0.28
	Chamera II HPS (3*100)	300	300	303	0	1.58	66	1.42	0.16
	Chamera III HPS (3*77)	231	170	171	0	0.92	38	0.75	0.17
	Bairasuli HPS(3*60)	180	124	125	0	0.69	29	0.62	0.07
	Salal-HPS (6*115)	690	122	230	166	3.58	149	2.94	0.63
	Tanakpur-HPS (3*40)	94	17	23	32	0.65	27	0.42	0.23
	Uri-I HPS (4*120)	480	253	327	252	7.30	304	6.04	1.26
	Uri-II HPS (4*60)	240	156	149	122	4.20	175	3.73	0.47
	Dhauliganga-HPS (4*70)	280	210	216	0	1.11	46	1.00	0.11
	Dulhasti-HPS (3*130)	390	258	266	0	3.46	144	3.30	0.16
	Sewa-II HPS (3*40)	120	0	0	0	0.00	0	0.00	0.00
	Parbati 3 (4*130)	520	0	0	0	0.81	34	0.00	0.81
	Sub Total (C)	4065	2150	2369	572	27	1107	22	4
D.SJVNL	NJPC (6*250)	1500	1554	1362	0	7.17	299	6.90	0.27
	Rampur HEP (6*68.67)	412	370	372	0	1.92	80	1.82	0.09
	Sub Total (D)	1912	1924	1734	0	9.08	379	8.72	0.36
E. THDC	Tehri HPS (4*250)	1000	1012	1002	0	6.95	290	6.80	0.15
	Koteswar HPS (4*100)	400	113	202	100	2.73	114	2.70	0.03
	Sub Total (E)	1400	1125	1204	100	9.68	403	9.50	0.18
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	700	1173	342	17.01	709	16.79	0.22
	Dehar HPS (6*165)	990	157	495	0	3.87	161	3.76	0.11
	Pong HPS (6*66)	396	279	384	60	6.65	277	6.69	-0.04
	Sub Total (F)	2765	1135	2052	402	27.53	1147	27.53	0.29
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	19	0	0.56	23	0.54	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	4.12	172	4.08	0.04
	Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS (2*150)	300	0	262	218	6.04	252	5.91	0.13
	Budhi HPS(IPP) (2*35)	70	0	38	0	0.19	8	0.19	0.00
	Sub Total (G)	1662	0	949	218	10.92	455	10.72	0.19
H. Total Regional Entities (A-G)	25237	18106	17355	9633	287.08	11962	281.33	5.75	

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	3.96	165
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.02	-1
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	254	202	6.09	254
	Goindwal(GVK)	0	0	0	0.00	0
	Rajpura (2*700)	1400	1105	702	25.04	1043
	Talwandi Saboo (2*660)	1320	696	351	12.40	517
	Thermal (Total)	5360	2215	1415	47.47	1978
	Total Hydro	1000	484	447	12.05	502
	Total Punjab	6360	2699	1862	59.52	2480
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	551	464	12.37	515
Faridabad GPS (NTPC)		432	0	0	0.00	0
RGTPP (khedar) (IPP) (2*600)		1200	1129	779	21.59	899
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	1108	741	24.34	1014
Thermal (Total)		4944	2788	1984	58.30	2429
Total Hydro		62	16	13	0.42	17
Total Haryana		5006	2804	1997	58.72	2447
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	859	1023	22.13
	suratgarh TPS (6*250)	1500	425	799	15.02	626
	Chabra TPS (4*250)	1000	583	581	13.71	571
	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	164	166	4.06	169
	Barsingar (NLC) (2*125)	250	183	186	4.32	180
	Giral LTPS (2*125)	250	84	84	1.68	70
	Rajwest LTPS (IPP) (8*135)	1080	927	967	20.72	863
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	922	516	17.34	722
	Kawai(Adani) (2*660)	1320	1201	958	24.80	1034
	Thermal (Total)	8876	5557	5494	129	5374
	Total Hydro	550	207	120	4.36	182
	Wind power	3214	479	393	11.45	477
	Biomass	99	14	14	0.34	14
	Solar	730	6	0	0.30	12
	Renewable/Others (Total)	4043	499	407	12.08	503
	Total Rajasthan	13469	6263	6021	145.42	6059
	UP	Anpara TPS (3*210+2*500)	1630	1237	1223	28.90
Obra TPS (2*50+2*94+5*200)		1194	441	450	10.40	433
Paricha TPS (2*110+2*220+2*250)		1140	598	652	15.80	658
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	333	320	9.40	392
Tanda TPS (NTPC) (4*110)		440	271	277	7.83	326
Roza TPS (IPP) (4*300)		1200	383	388	11.00	458
Anpara-C (IPP) (2*600)		1200	1087	882	23.60	983
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	0	0	0.00	0
Anpara-D(1*500)		500	0	0	0.00	0
Lalitpur TPS(1*660)		660	0	0	0.00	0
Bara(1*660)		660	0	0	0.00	0
Thermal (Total)		9949	4350	4192	107	4456
Vishnuparyag HPS (IPP)(4*110)		440	56	88	2.10	88
Alaknanda(4*82.5)		330	92	52	1.20	50
Other Hydro		527	56	23	1.10	46
Cogeneration		981	700	700	16.80	700
Total UP	12227	5254	5055	128	5339	
Uttarakhand	Total Hydro	1398	472	173	6.63	276
	Total Uttarakhand	1398	472	173	6.63	276
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	39	38	0.90	37
	Pragati Gas Turbine (2x104+ 1x122)	330	139	142	3.38	141
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	251	239	3.72	155
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.60	150
	Thermal (Total)	2917	594	584	11.60	483
	Total Delhi	2917	594	584	11.60	483
HP	Baspa HPS (IPP) (3*100)	300	33	44	1.39	58
	Malana HPS (IPP) (2*43)	86	21	0	0.27	11
	Other Hydro	878	144	115	3.24	135
	Total HP	1264	198	159	4.90	204
J & K	Baglihar HPS (IPP) (3*150)	450	143	142	3.42	143
	Other Hydro/IPP	560	103	89	2.24	93
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1200	246	231	5.66	236
Total State Control Area Generation		43841	18530	16082	420.57	17524
J. Net Inter Regional Exchange (Import +ve)/Export (-ve)]			6538	5382	152.09	6337
Total Regional Availability(Gross)		69078	42423	31097	859.74	35823

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8582	1074	80.54	3356
State Control Area Hydro	6581	1827	1306	38	1600
Total Regional Hydro	18815	10409	2380	118.95	4956

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			
Vindhyachal(HVDC B/B)	100	-300	100	300	0.90	3.06	-2.15		
765 KV Gwalior-Agra (D/C)	2714	2337	3157	0	65.24	0.00	65.24		
400 KV Zerda-Kankroli	-102	-285	0	285	0.00	3.90	-3.90		
400 KV Zerda-Bhimnal	-43	-210	38	259	0.00	2.31	-2.31		
220 KV Auraiya-Malanpur	-59	-71	0	101	0.00	1.54	-1.54		
220 KV Badod-Kota/Morak	-11	0	0	70	0.00	0.20	-0.20		
Mundra-Mohindergarh(HVDC Bipole)	1997	1703	2304	0	44.64	0.00	44.64		
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 kV Phagi-Gwalior (D/C)	846	949	1329	0	25.18	0.00	25.18		
Sub Total WR	5442	4123			135.96	11.00	124.97		
Pusaali Bypass/HVDC	350	350	350	0	8.28	0.00	8.28		
400 KV MZP- GKP (D/C)	268	64	142	306	0.00	1.28	-1.28		
400 KV Patna-Balia(D/C) X 2	355	465	583	0	11.43	0.00	11.43		
400 KV B'Sharif-Balia (D/C)	-95	38	147	113	0.08	0.00	0.08		
765 KV Gaya-Balia	172	178	264	0	2.42	0.00	2.42		
765 KV Gaya-Fatehpur	214	175	433	0	6.01	0.00	6.01		
220 KV Pusaali-Sahupuri	110	131	190	0	2.84	0.00	2.84		
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
132 KV Son Nar-Rihand	-27	-22	0	40	0.00	0.50	-0.50		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-115	-28	221	139	0.35	0.00	0.35		
400 KV Barh -GKP (D/C)	364	408	474	0	9.56	0.00	9.56		
Sub Total ER	1596	1759			40.97	1.78	39.19		
+/- 800 KV Biswanath-Charialli-Agra	-500	-500	0	500	0.00	12.07	-12.07		
Sub Total NER	-500	-500			0.00	12.07	-12.07		
Total IR Exch	6538	5382			176.93	24.84	152.09		

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
31.42	0.26	31.69	0.29	-10.63	17.00	21.47	6.03	-6.03
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
55.01	93.06	148.07	27.12	124.97	152.09	-27.88	31.91	4.02

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	-32	-34	0	36	0	1	-0.75		

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	2.71	23.51	69.46	63.61	10.00	2.71	0.22	NA

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)			
50.23	13.02	49.71	8.21	49.96	0.081	0.080	50.10	49.82	36.39

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	05:00	398	00:12	0.0	0.0	0.0	0.0
Gorakhpur	400	426	04:37	405	11:45	0.0	0.0	17.5	0.0
Bareilly(PG)400kV	400	425	05:02	396	10:38	0.0	0.0	6.1	0.0
Kanpur	400	411	05:01	399	09:45	0.0	0.0	12.8	0.0
Dadri	400	427	04:02	399	09:47	0.0	0.0	23.7	0.0
Ballabgarh	400	434	05:02	400	09:47	0.0	0.0	38.0	5.1
Bawana	400	429	04:03	400	11:23	0.0	0.0	33.7	0.0
Bassi	400	427	20:43	388	09:46	0.0	0.5	9.2	0.0
Hissar	400	420	04:01	390	11:36	0.0	0.0	0.0	0.0
Moga	400	421	04:00	394	11:35	0.0	0.0	0.5	0.0
Abdullapur	400	423	04:00	397	11:36	0.0	0.0	12.2	0.0
Nalagarh	400	434	03:59	164	10:11	27.4	27.4	42.5	14.4
Kishenpur	400	425	04:03	396	18:12	0.0	0.0	15.7	0.0
Wagoora	400	400	03:39	371	18:14	12.7	71.4	0.0	0.0
Amritsar	400	427	02:33	401	11:35	0.0	0.0	28.9	0.0
Kashipur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Hamirpur	400	418	02:01	393	07:26	0.0	0.0	0.0	0.0
Rishkesh	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	790	05:02	741	09:45	0.0	0.5	0.0	0.0
Balia	765	798	05:02	748	11:46	0.0	0.0	0.0	0.0
Moga	765	798	04:02	747	11:36	0.0	0.0	0.0	0.0
Agra	765	796	05:02	736	09:45	0.0	1.7	0.0	0.0
Bhivani	765	806	05:00	754	09:40	0.0	0.0	5.8	0.0
Unnao	765	782	05:02	733	10:37	0.0	8.3	0.0	0.0
Lucknow	765	803	05:02	762	17:51	0.0	0.0	0.6	0.0
Meerut	765	809	20:53	747	09:45	0.0	0.0	5.6	0.0
Jhatikara	765	807	20:53	756	11:40	0.0	0.0	6.8	0.0
Bareilly 765 kV	765	801	05:02	747	11:41	0.0	0.0	0.0	0.0
Anta	765	789	20:45	756	09:10	0.0	0.0	0.0	0.0
Phagi	765	794	05:01	738	09:45	0.0	0.7	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	503.70	1258.87	500.14	1101.35	182.25	526.41
Pong	426.72	384.05	413.25	611.20	407.64	416.46	69.91	423.87
Tehri	829.79	740.04	907.95	760.35	814.30	889.26	64.37	186.00
Kolleshwar	612.50	598.50	610.85	4.95	609.57	4.44	166.00	179.65
Chamera-I	760.00	748.75	758.12	0.00	0.00	0.00	61.29	61.29
Rihand	268.22	252.98	849.60	249.10	853.20	307.90	0.00	0.00
RPS	352.80	343.81	1138.57	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	502.21	4.16	508.16	3.48	90.45	193.59

* 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	-729	356	0	-1056	294	0	-18.37	7.73	-10.64
Delhi	-1040	-174	0	-566	469	0	-16.18	6.36	-9.82
Haryana	-344	312	0	-369	290	0	-8.73	7.29	-1.44
HP	138	84	0	427	-74	0	9.37	-2.18	7.19
J&K	642	0	0	478	183	0	14.03	-0.36	13.67
CHD	-30	0	0	0	-10	0	-0.24	0.07	-0.18
Rajasthan	-7	718	2	-7	470	2	8.65	15.31	23.96
UP	115	0	0	-144	0	0	-3.73	0.00	-3.73
Uttarakhand	193	239	0	225	403	0	4.80	8.29	13.08
Total	-1062	1536	2	-1013	2025	2	-10.40	42.51	32.10

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-650	-1056	356	274	0	0
Delhi	-399	-1040	791	-192	0	0
Haryana	-344	-369	318	290	0	0
HP	546	138	84	-753	0	0
J&K	729	474	183	-191	0	0
CHD	0	-30	34	-56	0	0
Rajasthan	728	-7	926	-435	2	2
UP	146	-404	0	0	0	0
Uttarakhand	225	193	607	151	0	0

XI. System Reliability Indices:

- (i)%age of times N-1 Criteria was violated in the inter - regional corridors
0.00 %
- (ii)%age of times ATC violated on the inter-regional corridors
0.00 %

XII. System Constraints:

XIII. Grid Disturbance / Any Other Significant Event:

XIV. Weather Conditions For 17.12.2015 :
Normal.

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 :

Voltage Deviation Index (% of Time)
0.0
17.5
6.1
12.8
23.7
38.0
33.7
9.2
0.0
0.5
12.2
69.9
15.7
12.7
28.9
0.0
0.0
0.0

Voltage Deviation Index (% of Time)
0.0
0.0
0.0
0.0
5.8
0.0
0.6
5.6
6.8
0.0
0.0
0.0

