

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 07.11.2015
Date of Reporting : 08.11.2015

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
37979	1796	39775	50.01	29182	2274	31457	50.05	797.1	43.40

* 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	34.13	10.00		44.12	52.65	51.73	-0.92	95.86	0.00
Haryana	42.60	0.40		43.00	66.70	66.27	-0.42	109.27	0.00
Rajasthan	114.42	5.12	10.07	129.61	75.32	79.44	4.12	209.05	0.00
Delhi	9.96			9.96	49.23	50.60	1.37	60.56	0.09
UP	105.44	5.98		111.42	110.14	109.40	-0.74	220.82	33.89
Uttarakhand		8.97		8.97	21.83	24.56	2.73	33.54	0.00
HP		6.47		6.47	17.62	18.48	0.86	24.95	0.17
J & K		9.26	0.00	9.26	30.17	30.47	0.30	39.73	9.26
Chandigarh				0.00	3.46	3.37	0.27	3.37	0.00
Total	306.55	46.20	10.07	362.82	427.11	434.32	7.57	797.14	43.40

* 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	4388	0	-166	-310	3174	0	32	-290	4658
Haryana	6313	0	-15	-208	3398	0	-53	15	6313
Rajasthan	9129	0	-64	600	8460	0	310	617	9829
Delhi	3147	7	-47	-109	1841	0	37	-758	3214
UP	9933	1330	-380	-208	8848	2005	274	119	10246
Uttarakhand	1770	0	137	251	1156	0	84	260	1805
HP	1279	0	114	-374	773	16	41	233	1323
J&K	1837	459	9	155	1436	253	-6	247	1883
Chandigarh	183	0	-31	-65	98	0	5	-30	183
Total	37979	1796	-443	-269	29182	2274	723	413	37979

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

Diversity is 1.04

III. Regional Entities :

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

A. NTPC	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS (5*200+2*500)	2000	1900	1827	1971	45.18	1882	44.56	0.62
	Rihand I STPS (2*500)	1000	848	798	887	18.72	780	18.83	-0.11
	Rihand II STPS (2*500)	1000	943	849	696	19.83	826	19.65	0.18
	Rihand III STPS (2*500)	1000	963	919	725	20.86	869	20.85	0.01
	Dadri I STPS (4*210)	840	810	139	147	3.46	144	3.49	-0.03
	Dadri II STPS (2*490)	980	980	327	333	8.20	342	8.61	-0.41
	Unchahar I TPS (2*210)	420	406	323	280	7.07	295	7.76	-0.69
	Unchahar II TPS (2*210)	420	404	265	248	6.34	264	7.11	-0.77
	Unchahar III TPS (1*220)	210	202	156	132	3.29	137	3.69	-0.40
	ISTPP (Jhajjar) (3*500)	1500	1436	626	623	14.56	607	14.85	-0.29
	Dadri GPS (4*130.19+2*154.51)	830	690	298	293	6.85	286	7.07	-0.21
	Anta GPS (3*88.71+1*153.2)	419	275	172	180	4.34	181	4.70	-0.37
	Auraiya GPS (4*111.19+2*109.30)	663	652	215	204	4.83	201	4.80	0.03
	Dadri Solar	5	1	0	0	0.01	1	0.02	0.00
	Unchahar Solar	10	1	0	0	0.03	1	0.04	-0.01
	Singrauli Solar	15	2	0	0	0.04	2	0.05	-0.01
	KHEP	800	870	584	0	3.58	149	3.20	0.38
	Sub Total (A)	12112	11383	7499	6718	167	6966	169	-2
B. NPC	NAPS (2*220)	440	400	436	421	9.53	397	9.60	-0.07
	RAPS- B (2*220)	440	393	437	437	9.47	395	9.43	0.04
	RAPS- C (2*220)	440	410	453	451	9.73	405	9.84	-0.11
	Sub Total (B)	1320	1203	1326	1309	28.73	1197	28.87	-0.14
C. NHPC	Chamera I HPS (3*180)	540	540	548	0	1.74	73	1.62	0.12
	Chamera II HPS (3*100)	300	200	200	0	1.92	80	1.92	0.00
	Chamera III HPS (3*77)	231	229	227	0	1.20	50	1.10	0.10
	Bairasuli HPS(3*60)	180	179	122	61	0.92	38	0.87	0.05
	Salal-HPS (6*115)	690	223	439	203	6.27	261	5.36	0.91
	Tanakpur-HPS (3*40)	94	34	37	31	0.91	38	0.82	0.09
	Uri-I HPS (4*120)	480	469	472	467	11.41	475	11.40	0.01
	Uri-II HPS (4*60)	240	238	241	243	5.75	240	5.72	0.04
	Dhauliganga-HPS (4*70)	280	280	220	0	1.47	61	1.30	0.17
	Dulhasti-HPS (3*130)	390	387	400	0	5.23	218	4.80	0.43
	Sewa-II HPS (3*40)	120	119	122	0	0.90	37	0.80	0.10
	Parbati 3 (4*130)	520	33	131	0	0.81	34	0.49	0.32
	Sub Total (C)	4065	2931	3159	1005	39	1605	36	2
D.SJVNL	NJPC (6*250)	1500	1605	1621	0	10.88	453	10.87	0.01
	Rampur HEP (6*68.67)	412	432	430	0	3.09	129	3.02	0.07
	Sub Total (D)	1912	2037	2051	0	13.96	582	13.89	0.08
E. THDC	Tehri HPS (4*250)	1000	1080	1046	0	6.21	259	6.00	0.21
	Koteshwar HPS (4*100)	400	92	101	91	2.24	93	2.20	0.04
	Sub Total (E)	1400	1172	1147	91	8.45	352	8.20	0.25
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	585	1049	375	14.21	592	14.03	0.18
	Dehar HPS (6*165)	990	182	495	0	4.57	190	4.37	0.20
	Pong HPS (6*66)	396	168	318	66	4.02	168	4.04	-0.02
	Sub Total (F)	2765	935	1862	441	22.80	950	22.44	0.35
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	109	0	0.77	32	0.75	0.03
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	900	0	6.38	266	6.12	0.26
	Malana Stg-II HPS (2*50)	100	0	0	0	0.32	13	0.30	0.02
	Shree Cement TPS (2*150)	300	0	259	169	5.75	240	5.75	0.00
	Budhil HPS(IPP) (2*35)	70	0	75	0	0.35	14	0.34	0.00
	Sub Total (G)	1662	0	1343	169	13.57	565	13.26	0.31
H. Total Regional Entities (A-G)		25237	19661	18386	9732	293.21	12217	292.11	1.10

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	3.64	151	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	80	80	1.92	80	
	Guru Har Gobind Singh TPS(L.mbt) (2*210+2*250)	920	429	205	6.95	290	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	743	363	13.60	567	
	Talwandi Saboo (2*660)	1320	344	343	8.02	334	
	Thermal (Total)	5360	1756	1151	34.13	1422	
	Total Hydro	1000	395	392	10.00	417	
	Total Punjab	6360	2151	1543	44.12	1839	
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0
DCRTPP (Yamuna nagar) (2*300)		600	546	462	11.38	474	
Faridabad GPS (NTPC)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	1139	756	21.24	885	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	569	377	9.99	416	
Thermal (Total)		4944	2254	1595	42.60	1775	
Total Hydro		62	11	16	0.40	17	
Total Haryana		5006	2265	1611	43.00	1792	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	411	559	11.01	459
	suratgarh TPS (6*250)	1500	209	219	5.33	222	
	Chabra TPS (4*250)	1000	362	433	9.88	412	
	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	195	208	5.12	213	
	RAPS A (NPC) (1*100+1*200)	300	159	163	4.01	167	
	Barsingar (NLC) (2*125)	250	186	186	4.33	180	
	Giral LTPS (2*125)	250	64	73	1.22	51	
	Rajwest LTPS (IPP) (8*135)	1080	797	816	19.66	819	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	983	1136	26.19	1091	
	Kawai(Adani) (2*660)	1320	1080	1057	27.67	1153	
	Thermal (Total)	8876	4446	4850	114	4767	
	Total Hydro	550	234	251	5.12	214	
	Wind power	3214	265	288	7.75	323	
	Biomass	99	27	27	0.64	27	
	Solar	730	0	0	1.68	70	
	Renewable/Others (Total)	4043	292	315	10.07	419	
	Total Rajasthan	13469	4972	5416	129.61	5400	
	UP	Anpara TPS (3*210+2*500)	1194	1386	1334	32.59	1358
Obra TPS (2*50+2*94+5*200)		1194	475	443	11.25	469	
Paricha TPS (2*110+2*220+2*250)		1140	612	639	15.02	626	
Panki TPS (2*105)		210	68	63	1.62	68	
Harduaganj TPS (1*60+1*105+2*250)		665	442	445	11.00	458	
Tanda TPS (NTPC) (4*110)		440	135	130	3.65	152	
Roza TPS (IPP) (4*300)		1200	194	198	5.03	209	
Anpara-C (IPP) (2*600)		1200	1080	644	23.34	972	
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	57	58	1.34	56	
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	4449	3954	105	4368	
Vishnuparyag HPS (IPP)(4*110)		440	127	119	2.93	122	
Alaknanda(4*82.5)		330	81	86	1.99	83	
Other Hydro		527	62	39	1.06	44	
Cogeneration		981	25	25	0.60	25	
Total UP		12227	4744	4223	111	4642	
Uttarakhand		Total Hydro	1398	443	343	8.97	374
		Total Uttarakhand	1398	443	343	8.97	374
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	35	36	0.90	38	
	Pragati Gas Turbine (2x104+ 1x122)	330	152	156	3.62	151	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	-7	249	2.03	85	
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.42	142	
	Thermal (Total)	2917	345	606	9.96	415	
	Total Delhi	2917	345	606	9.96	415	
HP	Baspa HPS (IPP) (3*100)	300	30	0	1.55	65	
	Malana HPS (IPP) (2*43)	86	44	0	0.37	15	
	Other Hydro	878	205	149	4.55	190	
	Total HP	1264	279	149	6.47	270	
J & K	Baglihar HPS (IPP) (3*150)	450	290	290	6.96	290	
	Other Hydro/IPP	560	106	118	2.30	96	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	396	408	9.26	386	
Total State Control Area Generation		43841	15595	14299	362.82	15117	
J. Net Inter Regional Exchange [(Import +ve)/Export (-ve)]			5291	6417	157.33	6555	
Total Regional Availability(Gross)		69078	39272	30448	813.35	33890	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9812	1536	94.79	3950
State Control Area Hydro	6581	2028	1803	46	1925
Total Regional Hydro	18815	11840	3339	140.99	5875

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		0		200	100	1.66	0.31	1.35
765 KV Gwalior-Agra (D/C)	2126		2658		3220	0	60.85	0.00	60.85
400 KV Zarda-Kankroli	-136		-36		75	216	0.00	1.80	-1.80
400 KV Zarda-Bhinmal	124		-33		146	207	0.00	0.23	-0.23
220 KV Auraiya-Malanpur	-76		-70		0	100	0.00	1.56	-1.56
220 KV Badod-Kota/Morak	-8		-50		0	89	0.00	1.03	-1.03
Mundra-Mohinderorah(HVDC Bipole)	2298		1998		2505	0	52.14	0.00	52.14
400 KV Vindhyachal - Rihand	0		0		0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	731		841		1142	0	21.17	0.00	21.17
Sub Total WR	5159		5308				135.83	4.92	130.91
Pusaull Bypass/HVDC	50		50		50	0	1.27	0.00	1.27
400 KV MZP -GKP (D/C)	56		336		500	0	7.87	0.00	7.87
400 KV Patna-Balia(D/C) X 2	98		321		412	0	6.66	0.00	6.66
400 KV B'Sharif-Balia (D/C)	41		110		187	98	1.99	0.00	1.99
765 KV Gaya-Balia	63		183		228	0	1.76	0.00	1.76
765 KV Gaya-Fatehpur	6		94		385	12	4.36	0.00	4.36
220 KV Pusaull-Sahupuri	125		85		147	0	2.64	0.00	2.64
132 KV K'nasa-Sahupuri	0		0		0	0	0.48	0.00	0.48
132 KV Son Ngr-Rihand	-27		-26		0	27	0.00	0.59	-0.59
132 KV Garhwa-Rihand	0		0		0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-130		13		244	141	1.61	0.00	1.61
400 KV Barh -GKP (D/C)	250		343		398	0	8.08	0.00	8.08
Sub Total ER	532		1509				36.70	0.59	36.12
+/- 800 KV BiswanathCharialli-Agra	-400		-400		0	400	0.00	9.71	-9.71
Sub Total NER	-400		-400				0.00	9.71	-9.71
Total IR Exch	5291		6417				172.54	15.21	157.33

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
29.79	1.19	30.99	4.87	-17.12	6.31	22.90	6.09	-6.09	
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	
48.26	100.64	148.90	26.41	130.91	157.33	-21.84	30.27	8.43	

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	34	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	0.42	10.69	53.75	76.88	8.06	4.38	0.00	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum	Time	Minimum	Time				MAX (Hz)	MIN (Hz)
50.19	5.03	49.70	15.20	49.99	0.067	0.047	50.13	49.83

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	408	18:54	401	00:27	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	508.85	1485.27	506.29	1367.40	207.11	399.98
Pong	426.72	384.05	418.06	807.91	412.77	588.94	60.63	240.83
Tehri	829.79	740.04	816.30	928.25	822.85	1061.00	64.52	138.00
Koteshwar	612.50	598.50	611.76	5.46	609.00	4.21	138.00	147.00
Chamera-I	760.00	748.75	757.69	0.00	0.00	0.00	74.74	47.47
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	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	509.68	4.03	510.32	0.00	69.76	217.87

* 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	-620	330	0	-601	291	0	-11.58	7.20	-4.38
Delhi	-643	-113	-2	-445	336	0	-12.15	6.02	-6.14
Haryana	-312	327	0	-508	299	0	-8.61	5.80	-2.81
HP	84	149	0	232	-607	0	4.68	-1.62	3.06
J&K	373	-126	0	357	-201	0	8.58	-1.66	6.92
CHD	-30	0	0	0	-65	0	-0.24	-0.24	-0.48
Rajasthan	0	617	0	0	600	0	6.93	16.35	23.28
UP	119	0	0	-208	0	0	-2.53	0.00	-2.53
Uttarakhand	197	63	0	197	55	0	4.72	3.06	7.79
Total	-833	1248	-2	-976	707	0	-10.21	34.91	24.70

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-196	-620	330	208	0	0
Delhi	-441	-643	625	-123	0	-2
Haryana	-297	-508	327	-82	0	0
HP	257	84	149	-758	0	0
J&K	373	337	0	-211	0	0
CHD	0	-30	0	-80	0	0
Rajasthan	533	0	1541	80	0	0
UP	161	-260	0	0	0	0
Uttarakhand	197	197	358	-24	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 07.11.2015 :
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 :