

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवर सिस्टम की पूर्ण व्यापक प्रास सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 22.09.2015

Date of Reporting : 23.09.2015

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
39880	1803	41683	49.96	38561	1841	40402	50.11	899.2	42.87

* 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	31.30	11.22		42.52	67.29	65.10	-2.19	107.62	0.00	
Haryana	27.78	0.77		28.55	103.58	101.99	-1.59	130.54	0.00	
Rajasthan	109.18	0.45	6.72	116.35	60.78	60.78	2.38	177.13	0.00	
Delhi	17.39			17.39	86.31	84.08	-2.23	101.47	0.38	
UP	142.10	16.10		158.20	129.59	136.26	6.68	294.46	37.27	
Uttarakhand		19.09		19.09	16.73	18.31	1.57	37.39	0.00	
HP		14.84		14.84	9.60	8.69	-0.90	23.53	0.00	
J & K		16.48	0.00	16.48	13.99	5.59	-8.40	22.07	5.22	
Chandigarh				0.00	5.24	4.94	0.27	4.94	0.00	
Total	327.75	78.94	6.72	413.41	490.74	485.75	-4.42	899.15	42.87	

* 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 (OD:(+ve), UD: (-ve))
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction		
Punjab	4015	0	-560	458	4796	0	60	575	5124	
Haryana	6387	0	-801	1828	5921	0	40	1947	6387	
Rajasthan	8316	0	58	187	7567	0	62	315	8316	
Delhi	4651	2	72	523	4084	8	-69	540	4858	
UP	12044	1460	-132	502	13073	1720	710	707	13493	
Uttarakhand	1845	0	12	79	1440	0	108	28	1845	
HP	1024	0	-222	-783	868	0	26	-506	1246	
J&K	1366	341	-266	-258	639	113	-305	-343	1366	
Chandigarh	232	0	-32	0	174	0	0	0	241	
Total	39880	1803	-1871	2537	38561	1841	632	3263	40958	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

figures may not be at simultaneous hour.

Diversity is 1.05

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))	
								UI	Net MU
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	1875	1706	2002	42.10	1754	41.76	0.34	
Rihand I STPS (2*500)	1000	834	714	840	17.32	722	17.42	-0.10	
Rihand II STPS (2*500)	1000	955	761	976	19.70	821	19.45	0.25	
Rihand III STPS (2*500)	1000	480	384	399	9.56	398	9.68	-0.12	
Dadri I STPS (4*210)	840	800	453	530	11.92	497	12.09	-0.17	
Dadri II STPS (2*490)	980	970	700	640	15.93	664	16.81	-0.88	
Unchahar I TPS (2*210)	420	198	129	144	3.21	134	3.78	-0.57	
Unchahar II TPS (2*210)	420	400	266	290	6.13	256	6.92	-0.79	
Unchahar III TPS (1*220)	210	200	130	135	3.04	127	3.42	-0.38	
ISTPP (Jhajjar) (3*500)	1500	1436	143	154	6.36	265	14.75	-8.39	
Dadri GPS (4*130.19+2*154.51)	830	800	381	276	7.78	324	8.04	-0.26	
Anta GPS (3*88.71+1*153.2)	419	392	212	176	5.00	208	5.62	-0.63	
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	0.02	0.00	
Unchahar Solar	10	3	0	0	0.03	1	0.06	-0.03	
Singrauli Solar	15	3	0	0	0.07	3	0.08	-0.01	
KHEP	800	845	827	0	8.35	348	8.62	-0.27	
Sub Total (A)	12112	10827	6806	6562	157	6521	169	-12	
B. NPC									
NAPS (2*220)	440	378	415	420	9.00	375	9.07	-0.08	
RAPS- B (2*220)	440	211	188	211	4.46	186	4.51	-0.05	
RAPS- C (2*220)	440	390	430	432	9.24	385	9.36	-0.12	
Sub Total (B)	1320	956	1056	1063	22.69	946	22.94	-0.25	
C. NHPC									
Chamera I HPS (3*180)	540	535	546	0	4.04	168	4.00	0.04	
Chamera II HPS (3*100)	300	300	302	18	4.30	179	4.23	0.07	
Chamera III HPS (3*77)	231	229	237	0	3.04	127	2.94	0.10	
Bairasuli HPS(3*60)	180	179	181	0	2.15	90	2.08	0.07	
Saikal-HPS (6*115)	690	517	675	404	13.19	550	12.39	0.80	
Tanakpur-HPS (3*40)	94	76	80	77	1.95	81	1.83	0.12	
Uri-I HPS (4*120)	480	210	397	98	5.28	220	5.00	0.28	
Uri-II HPS (4*60)	240	149	238	91	3.69	154	3.58	0.11	
Dhauliganga-HPS (4*70)	280	280	286	75	3.92	163	3.71	0.21	
Dulhasti-HPS (3*130)	390	386	399	391	9.38	391	9.26	0.12	
Sewa-II HPS (3*40)	120	84	0	0	0.35	15	0.30	0.05	
Parbati 3 (4*130)	520	390	130	0	1.66	69	1.66	0.00	
Sub Total (C)	4065	3336	3470	1154	53	2206	51	2	
D.SJVNL									
NJPC (6*250)	1500	1605	1500	710	24.15	1006	24.11	0.05	
Rampur HEP (6*68.67)	412	432	437	207	6.96	290	6.72	0.24	
Sub Total (D)	1912	2037	1937	917	31.11	1296	30.83	0.28	
E. THDC									
Tehri HPS (4*250)	1000	1080	909	0	7.87	328	7.80	0.07	
Koteshwar HPS (4*100)	400	100	102	100	2.42	101	2.40	0.02	
Sub Total (E)	1400	1180	1011	100	10.28	428	10.20	0.08	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	533	1065	360	12.75	531	12.79	-0.04	
Dehar HPS (6*165)	990	417	660	300	10.27	428	10.00	0.27	
Pong HPS (6*66)	396	212	252	192	4.90	204	5.08	-0.18	
Sub Total (F)	2765	1161	1977	852	27.92	1164	27.87	0.06	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	223	85	2.69	112	1.83	0.86	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	900	550	13.45	560	13.50	-0.05	
Malana Stg-II HPS (2*50)	100	0	110	25	1.07	45	0.94	0.13	
Shree Cement TPS (2*150)	300	0	284	294	6.83	285	6.87	-0.03	
Budhil HPS(IPP) (2*35)	70	0	76	37	0.78	32	0.76	0.02	
Sub Total (G)	1662	0	1592	990	24.81	1034	23.88	0.93	
H. Total Regional Entities (A-G)	25237	19497	17849	11639	326.27	13595	335.22	-8.95	

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	170	170	3.68	153	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	90	90	1.96	81	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	182	185	3.87	161	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura (2*700)	1400	700	704	15.77	657	
	Talwandi Saboo (1*660)	660	164	331	6.02	251	
	Thermal (Total)	4700	1306	1480	31.30	1304	
	Total Hydro	1000	237	527	11.22	467	
Total Punjab	5700	1543	2007	42.52	1772		
Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	0	0.00	0	
	DCRTPP (Yamuna nagar) (2*300)	600	478	454	10.78	449	
	Faridabad GPS (NTPC)	432	313	320	7.92	330	
	RGTTP (khedar) (IPP) (2*600)	1200	420	394	9.09	379	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP) (2*660)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1211	1168	27.78	1158	
	Total Hydro	62	30	34	0.77	32	
	Total Haryana	5006	1241	1202	28.55	1189	
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	818	771	18.78	783
suratgarh TPS (6*250)		1500	838	936	20.11	838	
Chabra TPS (4*250)		1000	122	135	2.53	105	
Dholpur GPS (3*110)		330	88	97	2.20	92	
Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)		271	176	195	4.40	183	
RAPS A (NPC) (1*100+1*200)		300	162	161	3.98	166	
Barsingar (NLC) (2*125)		250	94	95	2.10	87	
Giral LTPS (2*125)		250	59	48	1.06	44	
Rajwest LTPS (IPP) (8*135)		1080	954	918	18.22	759	
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0	
Kalisindh Thermal(2*600)		1200	1087	1085	24.70	1029	
Kawati(Adani) (2*660)		1320	600	436	11.11	463	
Thermal (Total)		8876	4998	4877	109	4549	
Total Hydro		550	0	0	0.45	19	
Wind power		3214	133	284	6.26	261	
Biomass		99	19	19	0.46	19	
Solar		730	0	0	0.00	0	
Renewable/Others (Total)		4043	152	303	6.72	280	
Total Rajasthan		13469	5150	5180	116.35	4848	
UP		Anpara TPS (3*210+2*500)	1630	1346	1308	31.90	1329
		Obra TPS (2*50+2*94+5*200)	1194	450	441	10.60	442
		Paricha TPS (2*110+2*220+2*250)	1140	627	655	15.20	633
		Panki TPS (2*105)	210	63	63	1.40	58
	Haridwar TPS (1*60+1*105+2*250)	665	515	528	15.20	633	
	Tanda TPS (NTPC) (4*110)	440	180	186	4.40	183	
	Roza TPS (IPP) (4*300)	1200	774	1044	21.30	888	
	Anpara-C (IPP) (2*600)	1200	1080	1078	25.70	1071	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	225	365	6.50	271	
	Anpara-D(1*500)	500	0	0	0.00	0	
	Lalitpur TPS(1*660)	660	394	396	8.70	363	
	Thermal (Total)	9289	5654	6064	141	5871	
	Vishnuparyag HPS (IPP)(4*110)	440	420	435	10.00	417	
	Alakanada(4*82.5)	330	198	204	4.90	204	
	Other Hydro	527	50	66	1.20	50	
	Cogeneration	981	50	50	1.20	50	
	Total UP	11567	6372	6819	158	6592	
Uttarakhand	Total Hydro	1398	879	779	19.09	795	
	Total Uttarakhand	1398	879	779	19.09	795	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	33	33	0.83	35	
	Pragati Gas Turbine (2x104+ 1x122)	330	144	261	5.54	231	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	251	252	5.94	248	
	Badarpur TPS (NTPC) (3*95+2*210)	705	275	222	5.07	211	
	Thermal (Total)	2917	704	769	17.39	725	
	Total Delhi	2917	704	769	17.39	725	
HP	Baspa HPS (IPP) (3*100)	300	89	218	4.58	191	
	Malana HPS (IPP) (2*43)	86	93	45	0.95	40	
	Other Hydro	878	437	357	9.30	388	
	Total HP	1264	619	620	14.84	618	
J & K	Baglihar HPS (IPP) (3*150)	450	600	600	14.40	600	
	Other Hydro/IPP	560	92	78	2.08	87	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Total J & K	1200	692	678	16.48	687	
Total State Control Area Generation		42521	17200	18054	413.41	17225	
J. Net Inter Regional Exchange (Import +ve)/Export (-ve)			4991	8461	159.33	6639	
Total Regional Availability(Gross)		67758	40040	38154	899.01	37459	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	10455	3683	147.82	6159
State Control Area Hydro	6581	3125	3343	79	3289
Total Regional Hydro	18815	13580	7026	226.75	9448

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)	0	0	0	0	0.00	0.00	0.00
765 KV Gwalior-Agra (D/C)	1596	2664	2804	0	47.91	0.00	47.91
400 KV Zerda-Kankrol	-60	15	80	247	0.00	2.34	-2.34
400 KV Zerda-Bhinmal	-21	-17	98	221	0.00	1.89	-1.89
220 KV Auraiya-Malanpur	-69	-32	0	93	0.00	0.62	-0.62
220 KV Badod-Kota/Morak	-84	8	47	82	0.00	1.03	-1.03
Mundra-Mohindergarh(HVDC Bipole)	1800	1800	2012	0	45.06	0.00	45.06
400 KV Vindhychal - Rihand	500	504	506	0	11.16	0.00	11.16
765 kV Phagi-Gwalior (D/C)	627	1117	593	0	20.53	0.00	20.53
Sub Total WR	4289	6059			124.66	5.87	118.79
Pusaali Bypass/HVDC	400	400	400	0	8.95	0.00	8.95
400 KV MZP- GKP (D/C)	120	616	616	0	10.75	0.00	10.75
400 KV Patna-Balia(D/C) X 2	47	361	361	0	4.80	0.00	4.80
400 KV B'Shanif-Balia (D/C)	-31	224	239	31	3.18	0.00	3.18
765 KV Pusaali-Balia	-18	70	115	22	0.49	0.00	0.49
765 KV Gaya-Fatehpur	13	195	245	17	3.31	0.00	3.31
220 KV Pusaali-Sahupuri	138	145	170	0	3.34	0.00	3.34
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-27	-11	0	34	0.00	0.53	-0.53
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-128	105	121	159	0.70	0.00	0.70
400 KV Barh -GKP (D/C)	188	297	304	0	5.56	0.00	5.56
Sub Total ER	702	2402			41.07	0.53	40.54
+/- 800 KV BiswanathChariali-Agra	0	0	0	0	0	0	0
Sub Total NER	0	0			0	0	0
Total IR Exch	4991	8461			165.73	6.40	159.33

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	Total	Through ER	Through WR	Through ER	Through WR
29.45	3.84	33.30	16.14	17.82	4.84	20.26	1.19	-1.19	
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)			
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total	
55.47	115.24	170.71	40.54	118.79	159.33	-14.93	3.55	-11.38	

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	-14	0	0	17	0	0	-0.06

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	0.16	6.97	45.86	68.19	19.09	5.49	0.39	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.29	18.02	49.77	12.15	50.00	0.044	0.066	0.00	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	407	16:16	398	00:02	0.0	0.0	0.0	0.0
Gorakhpur	400	417	16:07	395	23:27	0.0	0.0	0.0	0.0
Bareilly	400	405	00:00	405	00:00	0.0	0.0	0.0	0.0
Kanpur	400	421	16:06	407	00:02	0.0	0.0	0.3	0.0
Dadri	400	422	16:07	405	00:00	0.0	0.0	3.6	0.0
Ballabhgarh	400	426	16:06	411	00:02	0.0	0.0	32.6	0.0
Bawana	400	426	17:03	412	19:24	0.0	0.0	27.6	0.0
Bassi	400	426	16:05	411	19:26	0.0	0.0	36.2	0.0
Hissar	400	425	16:06	409	00:04	0.0	0.0	12.7	0.0
Moga	400	424	14:00	407	19:26	0.0	0.0	21.4	0.0
Abdullapur	400	428	16:07	410	00:00	0.0	0.0	20.0	0.0
Nalagarh	400	432	06:01	419	00:00	0.0	0.0	89.7	11.5
Kishenpur	400	423	04:01	404	19:07	0.0	0.0	17.4	0.0
Wagoora	400	413	00:00	395	00:00	0.0	0.0	0.0	0.0
Amritsar	400	427	14:07	410	18:59	0.0	0.0	46.4	0.0
Kashipur	400	420	16:04	408	00:02	0.0	0.0	0.0	0.0
Hamirpur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0
Rishikesh	400	416	16:07	374	11:58	1.4	1.4	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	786	08:05	738	19:28	0.0	2.0	0.0	0.0
Balia	765	775	16:06	740	23:27	0.0	1.6	0.0	0.0
Moga	765	816	14:03	774	19:14	0.0	0.0	51.3	0.0
Agra	765	799	09:04	758	19:26	0.0	0.0	0.0	0.0
Bhiwani	765	810	16:04	784	00:00	0.0	0.0	35.8	0.0
Unnao	765	766	16:06	731	00:03	0.0	15.4	0.0	0.0
Lucknow	765	779	16:08	741	00:04	0.0	0.1	0.0	0.0
Meerut	765	816	16:08	780	19:26	0.0	0.0	42.1	0.0
Jhatikara	765	807	17:03	782	00:00	0.0	0.0	22.7	0.0
Bareilly	765	787	16:06	745	00:02	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	801	16:07	773	00:00	0.0	0.0	0.7	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	511.29	1605.30	511.45	1620.46	504.24	360.95
Pong	426.72	384.05	420.86	931.43	416.86	755.83	299.82	282.97
Tehri	829.79	740.04	822.65	1055.00	822.30	1050.00	174.15	174.00
Koteshwar	612.50	598.50	609.99	4.56	611.82	5.73	174.00	159.00
Chamera-I	760.00	748.75	756.40	0.00	0.00	0.00	215.52	109.97
Rihand	268.22	252.98	851.70	283.00	857.20	376.00	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	511.37	4.72	516.31	6.61	79.33	271.18

* 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	285	290	0	283	175	0	6.84	6.26	13.10
Delhi	148	395	-2	614	-89	-2	8.85	7.23	16.08
Haryana	1701	246	0	1601	227	0	40.35	3.47	43.82
HP	-439	-67	0	-388	-395	0	-9.88	-4.31	-14.19
J&K	-422	79	0	-422	164	0	-10.13	3.14	-7.00
CHD	0	0	0	0	0	0	0.00	0.65	0.65
Rajasthan	-248	561	2	-390	576	2	-6.66	13.42	6.76
UP	707	0	0	502	0	0	12.61	0.00	12.61
Uttarakhand	-94	122	0	-249	328	0	-2.97	4.84	1.87
Total	1638	1625	0	1550	986	0	39.01	34.70	73.72

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	285	283	297	172	0	0
Delhi	663	55	688	-89	0	-2
Haryana	1704	1601	268	-341	0	0
HP	-388	-489	-31	-410	0	0
J&K	-422	-422	229	-35	0	0
CHD	0	0	79	0	0	0
Rajasthan	-248	-391	809	218	2	0
UP	716	419	0	0	0	0
Uttarakhand	-80	-249	377	5	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 22.09.2015 :
Scattered rain throughout Northern region

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 :