

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 24.11.2015
Date of Reporting : 25.11.2015

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
36744	1557	38301	50.06	28999	896	29895	50.09	788.8	39.12

* 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	38.58	6.66		45.24	41.18	43.06	1.88	88.30	0.00
Haryana	44.00	0.47		44.48	61.62	62.87	1.25	107.35	0.00
Rajasthan	112.72	3.89	13.58	130.20	70.20	71.42	1.22	201.62	0.00
Delhi	14.20			14.20	43.21	43.34	0.13	57.54	0.03
UP	114.80	5.80		120.60	108.99	110.73	1.74	231.33	28.89
Uttarakhand	6.49	6.49		12.98	25.77	27.47	1.70	33.95	0.39
HP	5.09	5.09		10.18	18.68	18.56	-0.12	23.65	0.00
J & K		8.90	0.00	8.90	32.54	32.81	0.27	41.71	9.82
Chandigarh				0.00	3.49	3.32	0.27	3.32	0.00
Total	324.31	37.31	13.58	375.20	405.69	413.58	8.34	788.78	39.12

* 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	3815	0	-73	-381	2715	0	104	-438	4598
Haryana	6162	0	8	-229	3186	0	73	-159	6162
Rajasthan	8774	0	-315	589	7990	0	175	630	9895
Delhi	3117	0	-18	-86	1508	0	20	-1045	3117
UP	9894	1030	56	-272	10043	615	143	114	10353
Uttarakhand	1631	40	-111	457	1143	0	77	417	1708
HP	1227	2	-35	-162	734	0	67	240	1341
J&K	1944	486	25	290	1590	281	-6	392	1995
Chandigarh	180	0	-14	-25	89	0	4	-30	180
Total	36744	1557	-478	181	28999	896	658	121	36744

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

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

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	1894	2007	1855	45.08	1878	44.91	0.17
	Rihand I STPS (2*500)	1000	870	790	659	18.22	759	18.08	0.14
	Rihand II STPS (2*500)	1000	963	751	662	19.73	822	19.62	0.11
	Rihand III STPS (2*500)	1000	970	765	687	20.67	861	20.80	-0.13
	Dadri I STPS (4*210)	840	610	150	162	3.50	146	3.60	-0.10
	Dadri II STPS (2*490)	980	980	383	396	8.76	365	9.24	-0.48
	Unchahar I TPS (2*210)	420	406	316	282	7.26	302	7.65	-0.39
	Unchahar II TPS (2*210)	420	404	320	266	6.76	282	7.03	-0.27
	Unchahar III TPS (1*220)	210	202	162	129	3.38	141	3.46	-0.07
	ISTPP (Jhajjar) (3*500)	1500	1500	716	623	15.54	648	15.99	-0.44
	Dadri GPS (4*130.19+2*154.51)	830	636	566	564	13.12	547	13.48	-0.36
	Anta GPS (3*88.71+1*153.2)	419	419	205	199	5.11	213	5.48	-0.37
	Auraiya GPS (4*111.19+2*109.30)	663	654	295	291	6.84	285	6.98	-0.14
	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	1	0	0	0.00	0	0.03	-0.03
	Sub Total (A)	12112	11165	7756	6775	178	7408	180	-2
B. NPC	NAPS (2*220)	440	198	222	224	4.80	200	4.75	0.05
	RAPS- B (2*220)	440	393	437	440	9.45	394	9.43	0.02
	RAPS- C (2*220)	440	410	455	458	9.86	411	9.84	0.02
	Sub Total (B)	1320	1001	1114	1122	24.11	1004	24.02	0.08
C. NHPC	Chamera I HPS (3*180)	540	540	557	0	1.80	75	1.62	0.18
	Chamera II HPS (3*100)	300	200	200	0	1.69	70	1.54	0.14
	Chamera III HPS (3*77)	231	229	229	0	0.99	41	0.87	0.12
	Bairasuli HPS (3*60)	180	122	123	0	0.59	25	0.57	0.02
	Salal-HPS (6*115)	690	162	337	150	4.42	184	3.90	0.51
	Tanakpur-HPS (3*40)	94	27	27	30	0.78	32	0.64	0.13
	Uri-I HPS (4*120)	480	327	346	314	8.43	351	7.75	0.68
	Uri-II HPS (4*60)	240	186	241	160	4.68	195	4.47	0.21
	Dhauliganga-HPS (4*70)	280	236	214	0	1.34	56	1.19	0.15
	Dulhasti-HPS (3*130)	390	387	402	0	4.12	171	3.90	0.22
	Sewa-II HPS (3*40)	120	119	103	0	0.57	24	0.50	0.07
	Parbati 3 (4*130)	520	130	132	0	0.81	34	0.39	0.42
	Sub Total (C)	4065	2665	2712	654	30	1259	27	3
	D. SJVNL	NJPC (6*250)	1500	1605	1604	0	9.99	416	9.85
Rampur HEP (6*68.67)		412	432	447	0	2.87	120	2.73	0.14
Sub Total (D)		1912	2037	2051	0	12.86	536	12.58	0.28
E. THDC	Tehri HPS (4*250)	1000	1048	1024	0	6.11	255	6.00	0.11
	Koteshwar HPS (4*100)	400	92	102	90	2.23	93	2.20	0.03
	Sub Total (E)	1400	1140	1126	90	8.34	348	8.20	0.14
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	545	1050	351	13.26	553	13.07	0.19
	Dehar HPS (6*165)	990	162	495	0	3.84	160	3.89	-0.05
	Pong HPS (6*66)	396	266	318	132	6.35	265	6.38	-0.03
	Sub Total (F)	2765	972	1863	483	23.45	977	23.34	0.11
	G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.62	26	0.60
KARCHAM WANGTOO HPS(IPP) (4*250)		1000	0	640	0	5.57	232	5.52	0.05
Malana Stg-II HPS (2*50)		100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS (2*150)		300	0	112	111	2.65	111	2.73	-0.08
Budhil HPS(IPP) (2*35)		70	0	75	0	0.24	10	0.23	0.01
Sub Total (G)		1662	0	828	111	9.08	378	9.07	0.01
H. Total Regional Entities (A-G)	25237	18981	17450	9235	285.86	11911	284.46	1.40	

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	210	160	3.97	165
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	110	90	2.13	89
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	0.00	0
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	353	351	11.38	474
	Talwandi Saboo (2*660)	1320	674	1005	21.10	879
	Thermal (Total)	5360	1347	1606	38.58	1608
	Total Hydro	1000	254	221	6.66	278
	Total Punjab	6360	1601	1827	45.24	1885
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	0	199	2.93
DCRTPP (Yamuna nagar) (2*300)		600	552	473	12.34	514
Faridabad GPS (NTPC)		432	198	165	4.40	183
RGTPP (khedar) (IPP) (2*600)		1200	1096	378	14.73	614
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	540	377	9.60	400
Thermal (Total)		4944	2386	1592	44.00	1834
Total Hydro		62	14	20	0.47	20
Total Haryana		5006	2400	1612	44.48	1853
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1065	1022	24.74
	suratgarh TPS (6*250)	1500	423	373	9.80	408
	Chabra TPS (4*250)	1000	499	581	13.19	550
	Dholpur GPS (3*110)	330	95	94	1.94	81
	Ramgarh GPS (1*37.5 + 1*35.5 + 2*37.5 + 1*110 + 1*50)	271	196	193	4.64	193
	RAPS A (NPC) (1*100+1*200)	300	158	161	3.96	165
	Barsingar (NLC) (2*125)	250	94	93	2.16	90
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	790	846	18.46	769
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	480	574	11.27	470
	Kawai(Adani) (2*660)	1320	866	867	22.58	941
	Thermal (Total)	8876	4666	4804	113	4697
	Total Hydro	550	173	136	3.89	162
	Wind power	3214	545	696	13.05	544
	Biomass	99	22	22	0.54	22
	Solar	730	0	0	0.00	0
	Renewable/Others (Total)	4043	567	718	13.58	566
	Total Rajasthan	13469	5406	5658	130.20	5425
	UP	Anpara TPS (3*210+2*500)	1630	1374	1400	33.30
Obra TPS (2*50+2*94+5*200)		1194	442	421	9.60	400
Paricha TPS (2*110+2*220+2*250)		1140	601	656	15.10	629
Panki TPS (2*105)		210	0	0	0.00	0
Harduaganj TPS (1*60+1*105+2*250)		665	545	530	12.80	533
Tanda TPS (NTPC) (4*110)		440	277	360	7.30	304
Roza TPS (IPP) (4*300)		1200	194	275	5.50	229
Anpara-C (IPP) (2*600)		1200	752	1079	24.80	1033
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	58	56	1.60	67
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	4243	4777	110	4584
Vishnuparyag HPS (IPP)(4*110)		440	112	108	2.70	113
Alaknanda(4*82.5)		330	67	74	1.70	71
Other Hydro		527	43	28	1.40	58
Cogeneration		981	200	200	4.80	200
Total UP		12227	4665	5187	121	5025
Uttarakhand	Total Hydro	1398	457	171	6.49	270
	Total Uttarakhand	1398	457	171	6.49	270
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	41	40	0.92	38
	Pragati Gas Turbine (2x104+ 1x122)	330	158	152	3.71	155
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	252	251	6.05	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	165	165	3.53	147
	Thermal (Total)	2917	616	608	14.20	591
Total Delhi	2917	616	608	14.20	591	
HP	Baspa HPS (IPP) (3*100)	300	29	0	1.44	60
	Malana HPS (IPP) (2*43)	86	45	0	0.33	14
	Other Hydro	878	189	87	3.32	138
	Total HP	1264	263	87	5.09	212
J & K	Baglihar HPS (IPP) (3*150)	450	260	260	6.24	260
	Other Hydro/IPP	560	105	115	2.66	111
	Gas/Diesel/Others	190	0	0	0.00	0
	Total J & K	1200	365	375	8.90	371
Total State Control Area Generation		43841	15773	15525	375.20	15633
J. Net Inter Regional Exchange (Import +ve)/Export (-ve)			4627	3991	147.22	6134
Total Regional Availability(Gross)		69078	37849	28752	808.28	33678

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8722	1227	84.87	3536
State Control Area Hydro	6581	1748	1220	37	1554
Total Regional Hydro	18815	10470	2447	122.18	5091

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)	200	-150	200	200	2.03	1.65	0.39		
765 KV Gwalior-Agra (D/C)	1866	2197	2814	0	56.06	0.00	56.06		
400 KV Zarda-Kankroli	-173	-208	13	224	0.00	3.15	-3.15		
400 KV Zarda-Bhinmal	-110	-140	123	167	0.00	1.26	-1.26		
220 KV Auraiya-Malanpur	-90	-116	0	117	0.00	2.30	-2.30		
220 KV Badod-Kota/Morak	-107	-122	106	0	0.00	2.92	-2.92		
Mundra-Mohinderorah(HVDC Bipole)	2503	1703	2506	0	52.18	0.00	52.18		
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00		
765 kV Phagi-Gwalior (D/C)	555	844	827	1	19.21	0.00	19.21		
Sub Total WR	4644	4008			129.47	11.26	118.21		
Pusaull Bypass/HVDC	100	350	350	0	4.98	0.00	4.98		
400 KV MZP -GKP (D/C)	-20	-274	418	88	5.72	0.00	5.72		
400 KV Patna-Balia(D/C) X 2	284	346	550	0	9.45	0.00	9.45		
400 KV B'Sharif-Balia (D/C)	19	76	282	0	2.63	0.00	2.63		
765 KV Gaya-Balia	184	86	247	0	1.81	0.00	1.81		
765 KV Gaya-Fatehpur	37	161	337	0	4.56	0.00	4.56		
220 KV Pusaull-Sahupuri	170	102	189	0	3.27	0.00	3.27		
132 KV K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48		
132 KV Son Ngr-Rihand	-20	-25	0	29	0.00	0.60	-0.60		
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
765 KV Sasaram - Fatehpur	-53	-13	207	73	1.38	0.00	1.38		
400 KV Barh -GKP (D/C)	-218	-326	360	0	7.28	0.00	7.28		
Sub Total ER	483	483			41.56	0.60	40.96		
+/- 800 KV BiswanathCharialli-Agra	-500	-500	0	500	0.00	11.94	-11.94		
Sub Total NER	-500	-500			0.00	11.94	-11.94		
Total IR Exch	4627	3991			171.03	23.81	147.22		

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	
24.41	0.74	25.15	3.67	-14.60	5.60	26.03	5.88	-5.88	
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)			
Through ER	Through WR Incids Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER(including NER)	Through WR	Total	
40.30	99.37	139.67	29.02	118.21	147.22	-11.29	18.84	7.55	

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	-30	-29	0	33	0	1	-0.73		

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	0.08	0.45	13.26	57.45	68.45	15.14	3.14	0.07	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					
50.22	13.04	49.68	17.43	49.98	0.054	0.071	50.16	49.86

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	404	02:01	398	05:48	0.0	0.0	0.0	0.0
Gorakhpur	400	419	04:03	403	12:18	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	04:02	393	11:24	0.0	0.0	0.0	0.0
Kanpur	400	411	04:03	400	09:38	0.0	0.0	0.2	0.0
Dadri	400	424	03:41	401	09:41	0.0	0.0	21.3	0.0
Ballabgarh	400	430	03:59	406	09:37	0.0	0.0	42.8	0.0
Bawana	400	428	20:42	405	09:40	0.0	0.0	39.2	0.0
Bassi	400	426	20:41	391	09:41	0.0	0.0	10.8	0.0
Hissar	400	424	20:44	399	09:38	0.0	0.0	3.6	0.0
Moga	400	423	20:45	402	09:40	0.0	0.0	2.2	0.0
Abdullapur	400	419	23:53	386	09:40	0.0	7.8	0.0	0.0
Nalagarh	400	434	21:28	406	09:39	0.0	0.0	50.5	8.5
Kishenpur	400	427	21:01	399	18:19	0.0	0.0	12.1	0.0
Wagoora	400	409	21:01	371	18:23	5.7	37.8	0.0	0.0
Amritsar	400	429	20:45	408	09:37	0.0	0.0	52.8	0.0
Kashipur	400	420	20:42	407	11:23	0.0	0.0	0.0	0.0
Hamirpur	400	421	00:00	400	09:38	0.0	0.0	39.3	0.0
Rishikesh	400	412	20:41	376	12:19	2.7	30.7	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	776	19:56	737	06:45	0.0	6.3	0.0	0.0
Balia	765	770	04:04	744	11:23	0.0	0.0	0.0	0.0
Moga	765	809	20:44	762	07:33	0.0	0.0	4.9	0.0
Agra	765	798	20:44	746	09:40	0.0	0.0	0.0	0.0
Bhiwani	765	812	20:45	756	09:38	0.0	0.0	11.1	0.0
Unnao	765	769	04:03	735	10:10	0.0	15.2	0.0	0.0
Lucknow	765	780	04:05	742	11:23	0.0	0.0	0.0	0.0
Meerut	765	820	20:45	764	09:48	0.0	0.0	8.0	0.0
Jhatikara	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Anta	765	781	19:41	756	09:39	0.0	0.0	0.0	0.0
Phagi	765	798	20:44	747	06:50	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	507.13	1411.35	504.01	1272.20	198.78	386.16
Pong	426.72	384.05	416.33	730.66	410.86	524.54	60.29	387.66
Tehri	829.79	740.04	813.20	866.27	819.60	994.27	69.29	142.00
Koteshwar	612.50	598.50	610.46	4.69	609.09	4.10	142.00	147.03
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	62.80	48.73
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	506.51	1.06	509.70	2.11	58.30	52.87

* 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	-673	235	0	-599	219	0	-12.62	4.92	-7.70
Delhi	-957	-88	0	-498	411	0	-15.55	6.74	-8.81
Haryana	-322	163	0	-517	288	0	-8.84	5.63	-3.21
HP	152	88	0	194	-356	0	5.78	-1.59	4.19
J&K	427	-35	0	411	-121	0	9.88	-1.21	8.67
CHD	-30	0	0	0	-25	0	-0.24	-0.04	-0.28
Rajasthan	-6	634	2	-6	593	2	9.21	13.67	22.88
UP	114	0	0	-272	0	0	-3.68	0.00	-3.68
Uttarakhand	194	223	0	194	263	0	4.66	6.99	11.65
Total	-1101	1220	2	-1092	1272	2	-11.41	35.11	23.70

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-196	-673	246	137	0	0
Delhi	-485	-957	742	-138	0	0
Haryana	-307	-517	322	-13	0	0
HP	318	152	88	-721	0	0
J&K	427	391	-10	-171	0	0
CHD	0	-30	25	-61	0	0
Rajasthan	713	-6	1005	-330	2	2
UP	155	-320	0	0	0	0
Uttarakhand	194	194	442	72	0	0

XI. System Constraints:

XII. Grid Disturbance / Any Other Significant Event:

XIII. Weather Conditions For 24.11.2015 :
Normal.

XIV. Synchronisation of new generating units :

XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1. 400kV Merta - Bikaner first time test charged from bikaner end only at 16:01 hrs.

XVI. Tripping of lines in pooling stations :

XVII. Complete generation loss in a generating station :