



***Maharashtra State Electricity Transmission
Company Ltd.***

State Load Dispatch Center, Airoli

Daily system Report

for

20/Nov/2014

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 20/Nov/2014 THURSDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	115.048	2231.583	1) Gujrat	-2.282	76.256
2) Hydro	6.341	148.222	2) Madhya Pradesh	14.761	307.587
3) Gas	10.478	187.426	3) Chattisgarh	7.730	175.270
Total MSGENCO	131.867	2567.231	4) Maharashtra Net	84.629	1874.313
B) 1) JSW JAIGAD	25.682	497.289	(Incl. 765kV Solapur-Raichur)	-11.187	-208.960
2) WPCL	2.646	51.867	5) Goa	-6.109	-136.086
3) ADANI	59.840	1151.700	6) TAPS 1&2 Injection	3.608	70.471
4) Other CPP / IPP	21.581	391.628	7) RGPPL Injection	0.000	0.000
5) Wind Generation	4.526	133.433	8) Pench (Excess)	-0.437	-11.519
6) PENCH (MS)	0.437	11.519	# Total Cent. Sector	101.900	2356.292
7) SOLAR	1.063	19.129	F) Other Exchanges		
C) 1) TPCL Thermal	16.349	359.479	1) With TPCL (Excess)	-28.878	-489.354
2) TPCL Hydro	3.989	70.050	G) Bilateral Power *		
TOTAL TPCL	20.338	429.529	1) MSEDCL Bilateral	25.152	600.329
3) REL Thermal	11.831	239.917	Include PX	0.000	92.267
D) STATE			2) MUMBAI Bilateral	23.258	436.000
1) Thermal (A1+C1+C3)	143.228	2830.979	Include PX	4.943	80.590
2) Hydro (A2+B6+C2)	10.767	229.791	3) MUMBAI Schedule	23.258	436.545
3) Gas (A3)	10.478	187.426	H) ENERGY CATERED (MUs)		
4) Wind (B5)	4.526	133.433	1) MSEDCL	320.664	6690.734
5) CPP/IPP (B1+B2+B3+B4)	109.749	2092.484	2) TPCL	36.557	700.740
6) SOLAR (B7)	1.063	19.129	3) REL	24.488	458.170
TOTAL STATE	279.811	5493.242	TOTAL STATE	381.709	7849.644

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 16 Hrs	C. Night Minimum at 5 Hrs
MSGENCO Thermal	4838	4949	4764
MSGENCO Hydro	380	404	83
MSGENCO Gas	428	422	445
MSGENCO Total Generation	5646	5775	5292
Central Sector Receipt	4953	5106	3152
WIND	118	82	393
CPP / IPP	4849	4678	4111
SOLAR	163	83	0
Exchange with Mumbai	-1383	-1337	-830
MSEDCL DEMAND MET	14356	14392	12145
Load Shedding	221	59	64
MSEDCL DEMAND	14577	14451	12209
TPCL GENERATION	1174	1139	597
R-INFRA GENERATION	521	518	451
TPCL+R-INFRA DEMAND	3078	2994	1878
STATE DEMAND MET	17434	17386	14023
STATE DEMAND	17655	17445	14087
Frequency (Hz)	50.03	49.91	49.94

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.29 Hz at 12:02 Hrs	49.72 Hz at 06:10 Hrs	49.99	0 % of Time(min)

* Displayed for information, not added in total. # Total Cent. Sector includes MSEDCL and TPCL bilateral power.

State Load Dispatch Center,Airoli (MSETCL)

Daily and Progressive Generation,Maximum,Minimum,OLC Details for 20/Nov/2014

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	0.00	0.00	0	0	0
Unit 6	0.00	60.43	0	0	0
Unit 7	3.76	71.66	180	149	150
Total	3.76	132.09			150
Bhusawal					
Unit 2	0.00	0.00	0	0	0
Unit 3	3.36	32.87	160	135	125
Unit 4	7.77	160.78	485	0	348
Unit 5	8.41	127.40	450	310	348
Total	19.54	321.05			821
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	0.00	0.00	0	0	0
Unit 5	3.60	72.43	163	146	150
Unit 6	4.83	91.67	250	186	195
Unit 7	4.76	91.81	250	182	195
Total	13.19	255.92			540
Chandrapur					
Unit 1	0.00	0.00	0	0	0
Unit 2	3.38	67.78	147	135	150
Unit 3	0.00	42.49	0	0	0
Unit 4	4.14	80.26	201	152	170
Unit 5	9.16	165.64	450	362	370
Unit 6	8.42	159.10	385	300	370
Unit 7	7.67	138.95	396	201	370
Total	32.78	654.22			1430
Paras					
Unit 3	4.59	92.59	222	175	180
Unit 4	4.63	90.92	225	179	180
Total	9.22	183.51			360
Khaparkheda					
Unit 1	3.42	75.26	155	140	180
Unit 2	3.40	73.14	145	135	180
Unit 3	3.74	79.72	175	146	180
Unit 4	3.68	79.34	164	143	180
Unit 5	10.05	157.50	500	359	420
Total	24.28	464.95			1140
Nasik					
Unit 3	4.16	80.91	180	165	190
Unit 4	4.03	71.94	180	158	190
Unit 5	4.07	66.98	179	161	190
Total	12.26	219.84			570
Uran					
All Units	10.48	187.43	450	418	300
Total	10.48	187.43			300
PENCH (MS)					
Pench (MS)	0.44	11.52	44	0	0
Total	0.44	11.52			0
Koyna					
Stage 1-2	2.32	43.42	375	40	600
Stage 4	0.00	16.28	0	0	240
Stage 3	1.03	13.75	160	0	250
Kovna 12&4 Total	2.32	59.70			840

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	3.35	73.45			1090
Hydro					
KDPH	0.00	4.60	0	0	0
VTRNA	1.11	19.11	61	0	61
TILLARI	0.37	7.10	64	0	64
BHTGR/VEER	0.07	1.62	3	2	4
BHIRA T.R.	0.26	4.04	64	0	40
RNGR+BHTSA	0.00	3.03	0	0	0
BHANDARDRA	0.00	0.80	0	0	0
ELDARY	0.34	6.06	15	13	14
SMLHY PTN	0.68	12.45	36	25	10
GHATGHAR	0.16	15.97	67	0	0
Total	2.99	74.77			193
Wind					
MalharPeth	0.16	4.40			
Vankuswadi	0.31	8.84			
ATIT	0.05	0.93			
Kale	0.10	3.51			
Satara	2.83	70.13			
Shirala	0.22	5.51			
K Mahankal	0.01	0.32			
Supa	0.04	1.31			
Vita	0.53	15.79			
Dondaicha	0.08	10.42			
Sakri	0.00	1.45			
Nandurbar	0.10	4.38			
Khandke	0.07	3.01			
Khaparale	0.02	3.42			
Total	4.53	133.43			
CPP					
JSW JAIGAD	25.68	497.29	1165	952	1085
WARDHA	2.65	51.87	119	98	110
Adani	59.84	1151.70	2610	2130	2645
Other CPPs	21.58	388.10			745
Total	109.75	2088.95			4585
SOLAR					
Total	1.06	19.13			
Total	1.06	19.13			
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	9.04	197.12	427	317	500
Trombay 6	3.70	74.95	155	153	500
Trombay 7A	2.19	52.06	115	71	120
Trombay 7B	1.42	30.76	67	53	60
Trombay 8	0.00	4.59	0	0	0
TATA Hydro	3.99	70.05	446	0	447
Total	20.34	429.53			1627
REL					
1&2	11.83	239.92	521	450	500
Total	11.83	239.92			500
Cent Sect					
Share					4916
Total					4916
MS PG CL	Thermal	115.05	2231.58		5011
	Thml+Gas	125.53	2419.01		5311
	Hydro	6.34	148.22		1283
	Total	131.87	2567.23		6594
State Total		279.81	5493.24		18222

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 20/Nov/2014

TIME SR. NO.	MSPGCL GEN.			TOTAL	WIND	CPP / IPP	SOLAR	CS SHARE	CS RECPT	Mum.S CH.	Mum. NET EXCH.	MSEDCL DEM. MET	LOAD SHEDDI NG	MSEDCL DEM. WITH LS	TPCL + R -INFRA DEMAND	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS														
1	4747	149	424	5320	350	4351	0	4178	3489	-728	-1202	12333	88	12421	2270	14691	50.01
2	4675	83	440	5198	352	4103	0	4143	3574	-681	-1061	12176	61	12237	2109	14346	49.99
3	4702	84	445	5231	368	4042	0	3519	3324	-681	-948	12044	61	12105	1996	14101	49.98
4	4749	98	450	5297	386	4037	0	3499	3272	-681	-872	12147	61	12208	1920	14128	50.00
5	4764	83	445	5292	393	4111	0	3434	3152	-681	-830	12145	64	12209	1878	14087	49.94
6	4769	123	435	5327	384	4302	0	3632	3968	-681	-871	13137	90	13227	1954	15181	49.93
7	4813	469	448	5730	312	4582	0	4006	4159	-683	-818	14009	118	14127	2030	16157	49.93
8	4816	639	445	5900	281	4718	21	4474	4157	-710	-924	14196	119	14315	2197	16512	49.96
9	4755	295	444	5494	144	4871	73	4493	4287	-827	-1075	13837	113	13950	2445	16395	49.96
10	4706	399	440	5545	100	4850	114	4652	4553	-995	-1152	14047	103	14150	2795	16945	49.94
11	4697	340	430	5467	103	4876	143	4927	4942	-1209	-1352	14216	131	14347	3040	17387	50.01
12	4838	380	428	5646	118	4849	163	5017	4953	-1286	-1383	14356	221	14577	3078	17655	50.03
13	5388	184	430	6002	130	4792	168	4900	4381	-1256	-1430	14068	321	14389	3024	17413	50.06
14	5349	144	420	5913	108	4632	130	4740	4636	-1103	-1366	14078	149	14227	2926	17153	50.14
15	5500	144	418	6062	86	4774	120	4937	4764	-1122	-1472	14359	88	14447	2970	17417	50.00
16	4949	404	422	5775	82	4678	83	5004	5106	-1180	-1337	14392	59	14451	2994	17445	49.91
17	4785	247	428	5460	96	4775	42	5020	4945	-1185	-1343	13975	64	14039	2975	17014	49.98
18	4776	153	430	5359	150	4677	6	5038	4475	-1101	-1260	13407	67	13474	2837	16311	50.01
19	4784	351	435	5570	141	4634	0	5083	5168	-1078	-1372	14141	68	14209	2897	17106	49.99
20	4762	339	437	5538	127	4684	0	5188	4836	-1193	-1469	13716	70	13786	2815	16601	50.01
21	4654	235	440	5329	98	4602	0	4683	4738	-1178	-1463	13304	60	13364	2639	16003	49.99
22	4409	404	448	5261	82	4624	0	4029	4078	-1066	-1350	12695	58	12753	2499	15252	50.01
23	4367	302	450	5119	70	4602	0	3838	3464	-1015	-1272	11983	58	12041	2417	14458	49.99
24	4294	292	446	5032	65	4583	0	3813	3479	-939	-1256	11903	58	11961	2342	14303	50.01
MUs	115.05	6.34	10.48	131.87	4.53	109.75	1.06	106.25	101.90	-23.26	-28.88	320.66	2.35	323.01	61.05	384.06	49.99

NOTE : ALL VALUES IN MW

Mumbai Sch./Net Exch is shown with reference to MSETCL System. (+) indicates Mum. to MSETCL and (-) indicates MSETCL to Mum. Mumbai Schedule is calculated for MSETCL periphery (taking 4% loss for import & 4.85% MSETCL loss # Without Applying Load Diversity Factor

State Load Dispatch Center,Airoli (MSETCL)
Details of Generating Unit Outages/Trippings for 20/Nov/2014

Position as on 6.30 Hrs of 21/Nov/2014

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE							
Parli Unit 3	210	13/02/2013	23.50		Continued.	Water Shortage	
Koyna Unit 11	80	23/09/2014	02.30		Continued.	Stator Earth Fault	
Cent_Sect Tarapur 1	160	12/10/2014	22.39		Continued.	Refuelling work.(60Days)	
FORCED OUTAGE							
Dabhol 1B	230	28/05/2013	22.02		Continued.	Gas shortage.	
Dabhol 3A	230	06/06/2013	08.28		Continued.	Gas Shortage	
Dabhol 2A	230	06/06/2013	09.10		Continued.	Gas Shortage	
Dabhol 1X	290	27/06/2013	21.46		Continued.	Gas Shortage	
Dabhol 1A	230	27/06/2013	21.47		Continued.	Gas Shortage	
Dabhol 2X	290	15/07/2013	15.09		Continued.	Gas Shortage	
Dabhol 2B	230	08/08/2013	15.03		Continued.	Gas Shortage	
Dabhol 3X	290	29/12/2013	05.47		Continued.	Gas Shortage	
Dabhol 3B	230	29/12/2013	06.14		Continued.	Gas Shortage	
CPP WPCL U-2	135	18/02/2014	00.02		Continued.	Ash Conveying problem	
CPP Dhariwal	300	28/05/2014	02.27		Continued.	PA Fan Vibration Problem. (U-1).	
Koradi Unit 5	200	17/06/2014	11.53		Continued.	economic shutdown	
Chandrapur Unit 1	210	28/08/2014	07.15		Continued.	economic shutdown	
Bhusawal Unit 2	210	13/09/2014	12.43		Continued.	Economic shutdown	
Parli Unit 4	210	13/10/2014	10.49		Continued.	Coal Shortage.	
CPP WPCL U-1	135	30/10/2014	00.43		Continued.	ESP Bag Filter Damaged	
CPP IPL U-2	270	30/10/2014	16.16		Continued.	Gen.Diff.Protection operated	
CPP WPCL U-4	135	01/11/2014	00.19		Continued.	Withdrawn	
Chandrapur Unit 3	210	12/11/2014	20.58		Continued.	Coal Shortage.	
CPP WPCL U-3	135	15/11/2014	00.01		Continued.	ID fan vibration high problem	
Uran Unit 7	108	17/11/2014	17.16		Continued.	Gas Shortage.	
Koradi Unit 6	210	18/11/2014	16.11		Continued.	ID Fan Problem.	
Tata Trombay 8	250	19/11/2014	16.11	21/11/2014	02.11	Turbine Vibration High.	
Bhusawal Unit 4	500	20/11/2014	21.13	21/11/2014	00.08	Gen.T/F Oil Leakage	

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 20/Nov/2014

Position as on 6.30 Hrs of 21/Nov/2014

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Kolhapur - Mapusa - II	19/11/2014	22.06	20/11/2014	07.16	Over Voltage.
Kolhapur - Mapusa - II	20/11/2014	18.19		Continued.	Over Voltage
Dhule-Sar'Sarovar - I	20/11/2014	21.37		Continued.	Over Voltage
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
400/220KV 500MVA ,GT-5 at Deepnagar	22/09/2014	10.50		Continued.	Repl.damaged poles of main CB pole.
New Koyna - Dabhol - I	05/11/2014	09.05		Continued.	Insulator washing, (RFC from 20.00Hrs)
400/220 KV 315 MVA ICT-II @ Nagothane.	12/11/2014	13.02		Continued.	Shifted to TBC for BKR overloading.(2Days).
400/11.5/6.6 KV 70 MVA Station T/F 5A @ Khaparkheda	18/11/2014	10.50		Continued.	Oil Pump Repl and oil filtration work.
Chandrapur II - Dhariwal - I	18/11/2014	15.49		Continued.	To check C.T. & P.T.
400/11.5 KV 80 MVA Stn T/F - I @ Chandrapur	19/11/2014	08.55		Continued.	Testing work by MSPGCL.
Lonikand I-Lonikand II	20/11/2014	09.02	20/11/2014	15.46	Q.M.Work
Talegaon PG - Aurangabad - II	20/11/2014	09.34	20/11/2014	10.56	Main CB PDR Operated,Ckt charged through TBC
Main Bus- II @ Jejuri	20/11/2014	09.40	20/11/2014	17.35	A.M.Work
Main Bus- I @ Koradi	20/11/2014	10.20	20/11/2014	14.20	DCRM Work
400/220KV, 315MVA ICT-I @ New Koyna.	20/11/2014	11.36	20/11/2014	15.25	Hot Spot (Taken on TBC)
Chandrapur-II - Warora - I	20/11/2014	15.08	20/11/2014	17.28	Hot Spot
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
220/110KV, 200MVA T/F-III at Mudshingi	17/11/2014	09.00		Continued.	To repl.BKR pole,Taken on TBC.
Kalwa-Temghar	20/11/2014	05.50	20/11/2014	10.10	Hot Spot
Taloja-OCIL-I	20/11/2014	07.38	20/11/2014	20.32	Tan Delta Measurement
Wardha - Yawatmal	20/11/2014	08.45	20/11/2014	11.35	Measurement of CB Timing and CRM
Jejuri - Parvati	20/11/2014	09.07	20/11/2014	17.09	Maint.work
Vita - Miraj	20/11/2014	09.55	20/11/2014	15.57	Erection and commissioning of CC and WT
Khaparkheda New - Khaparkheda Old - I	20/11/2014	10.18	20/11/2014	15.28	Hot Spot
Bhigwan-Baramati agro	20/11/2014	10.25	20/11/2014	17.40	CB Testing work
Chandrapur-Sicom - II	20/11/2014	10.44	20/11/2014	17.52	Measurement of Tan Delta of CT
220/132KV 200 MVA T/F NO - I at Ranjangaon	20/11/2014	13.25	20/11/2014	17.06	Conservator Oil Level Top UP
Kolhapur-Mudsingi -I	20/11/2014	14.36	20/11/2014	18.50	Hot Spot
Lonikand-Ranjangaon	20/11/2014	14.51	20/11/2014	19.27	Tan Delta Measurement work
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Karad - Kolhapur - II	19/11/2014	16.49	20/11/2014	09.21	Over Voltage.
Bhusawal- Aurangabad	19/11/2014	17.51	20/11/2014	07.38	Over Voltage.
Karad-Jaigad I	19/11/2014	21.59		Continued.	Over Voltage.
Lonikand- Koyna Stage IV	20/11/2014	03.25	20/11/2014	07.22	Over Voltage.

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 20/Nov/2014

Position as on 6.30 Hrs of 21/Nov/2014

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Karad - Kolhapur - II	20/11/2014	16.55		Continued.	Over Voltage
Bhusawal- Aurangabad	20/11/2014	20.08		Continued.	Over Voltage
Voltage Level : 400KV			Outage Type TRIPPED		
Talegaon PG - Aurangabad - II	18/11/2014	05.26	20/11/2014	01.54	Dist Prot.(Taken on TBC).
Voltage Level : 220KV			Outage Type TRIPPED		
220/110KV 200MVA ICT-III at Borivali	21/09/2014	09.16		Continued.	monkey fault
Butibori III-Butibori I	18/11/2014	19.37		Continued.	Bus Bar Prot Optd 220KV Butibori Ckt I B-Ph line CT Burst.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 21/Nov/2014

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	0
Unit 6	210	0
Unit 7	210	155
	620	155
Bhusawal		
Unit 2	210	0
Unit 3	210	165
Unit 4	500	500
Unit 5	500	470
	1420	1135
Parli		
Unit 3	210	0
Unit 4	210	0
Unit 5	210	145
Unit 6	250	185
Unit 7	250	185
	1130	515
Chandrapur		
Unit 1	210	0
Unit 2	210	150
Unit 3	210	0
Unit 4	210	165
Unit 5	500	400
Unit 6	500	365
Unit 7	500	400
	2340	1480
Paras		
Unit 3	250	180
Unit 4	250	180
	500	360
Khaparkheda		
Unit 1	210	162
Unit 2	210	162
Unit 3	210	162
Unit 4	210	162
Unit 5	500	397
	1340	1045
Nasik		
Unit 3	210	190
Unit 4	210	190
Unit 5	210	190
	630	570
Uran		
All Units	852	445
	852	445
PENCH (MS)		
Pench (MS)	53	
	53	
Koyna		
Stage 1-2	600	600
Stage 4	1000	240
Stage 3	320	250
	1920	1090
Hydro		
KDPH	40	0
VTRNA	60	61

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	64
BHTGR/VEER	21	3
BHIRA T.R.	80	40
RNGR+BHTSA	20	0
BHANDARDRA	45	0
ELDARY	23	15
SMLHY PTN	12	10
GHATGHAR	250	0
	611	193
Wind		
MalharPeth	0	
Vankuswadi	0	
ATIT	0	
Kale	0	
Satara	0	
Shirala	0	
K Mahankal	0	
Supa	0	
Vita	0	
Dondaicha	0	
Sakri	0	
Nandurbar	0	
Khandke	0	
Khaparale	0	
	0	
CPP		
JSW JAIGAD	1200	1085
WARDHA	405	120
Adani	2640	2645
Other CPPs	300	745
	4545	4595
SOLAR		
Total	0	
	0	
Tata		
Trombay 4	150	0
Trombay 5	500	500
Trombay 6	500	500
Trombay 7A	120	120
Trombay 7B	60	60
Trombay 8	250	250
TATA Hydro	444	447
	2024	1877
REL		
1&2	500	500
	500	500
Cent Sect		
Share	3455	5184
	3455	5184