



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

State Load Dispatch Center, Airoli

Daily system Report

for

14/Dec/2014

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 14/Dec/2014 SUNDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	115.062	1666.250	1) Gujrat	-1.649	26.344
2) Hydro	7.618	151.226	2) Madhya Pradesh	17.328	183.232
3) Gas	11.472	113.584	3) Chattisgarh	5.930	88.510
Total MSGENCO	134.152	1931.060	4) Maharashtra Net	82.204	1305.338
B) 1) JSW JAIGAD	19.601	317.606	(Incl. 765kV Solapur-Raichur)	-8.730	-73.963
2) WPCL	2.570	36.824	5) Goa	-5.504	-86.882
3) ADANI	49.540	701.050	6) TAPS 1&2 Injection	3.810	52.632
4) Other CPP / IPP	22.498	324.557	7) RGPPL Injection	0.000	0.000
5) Wind Generation	2.973	82.502	8) Pench (Excess)	-0.055	-1.399
6) PENCH (MS)	0.055	1.399	# Total Cent. Sector	102.064	1567.775
7) SOLAR	0.923	12.847	F) Other Exchanges		
C) 1) TPCL Thermal	13.489	250.558	1) With TPCL (Excess)	-23.311	-318.684
2) TPCL Hydro	0.552	51.290	G) Bilateral Power *		
TOTAL TPCL	14.041	301.848	1) MSEDCL Bilateral	28.783	396.506
3) REL Thermal	4.996	123.428	Include PX	-4.400	19.098
D) STATE			2) MUMBAI Bilateral	19.963	287.323
1) Thermal (A1+C1+C3)	133.547	2040.236	Include PX	2.743	34.112
2) Hydro (A2+B6+C2)	8.225	203.915	3) MUMBAI Schedule	19.963	293.199
3) Gas (A3)	11.472	113.584	H) ENERGY CATERED (MUs)		
4) Wind (B5)	2.973	82.502	1) MSEDCL	311.065	4656.936
5) CPP/IPP (B1+B2+B3+B4)	94.209	1380.037	2) TPCL	25.838	451.477
6) SOLAR (B7)	0.923	12.847	3) REL	16.510	291.756
TOTAL STATE	251.349	3833.121	TOTAL STATE	353.413	5400.169

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 14 Hrs	C. Night Minimum at 4 Hrs
MSGENCO Thermal	5133	4818	4701
MSGENCO Hydro	543	219	163
MSGENCO Gas	457	455	469
MSGENCO Total Generation	6133	5492	5333
Central Sector Receipt	4785	5161	2895
WIND	46	72	196
CPP / IPP	4400	4313	3857
SOLAR	140	131	0
Exchange with Mumbai	-931	-1083	-806
MSEDCL DEMAND MET	14573	14086	11475
Load Shedding	59	60	58
MSEDCL DEMAND	14632	14146	11533
TPCL GENERATION	776	591	515
R-INFRA GENERATION	262	197	192
TPCL+R-INFRA DEMAND	1969	1871	1513
STATE DEMAND MET	16542	15957	12988
STATE DEMAND	16601	16017	13046
Frequency (Hz)	50.00	49.99	50.06

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.57 Hz at 23.59 Hrs	49.75 Hz at 18.11 Hrs	50.01	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 14/Dec/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	3.54	48.25	170	120	160
Unit 7	3.65	54.41	180	120	165
Total	7.19	102.66			325
Bhusawal					
Unit 2	0.00	0.00	0	0	0
Unit 3	3.64	35.20	160	140	150
Unit 4	8.82	124.62	500	340	350
Unit 5	8.12	120.52	425	320	325
Total	20.58	280.34			825
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	0.00	0.00	0	0	0
Unit 5	3.66	49.60	159	146	155
Unit 6	5.23	71.20	239	202	208
Unit 7	5.24	71.13	244	207	209
Total	14.14	191.93			572
Chandrapur					
Unit 1	0.00	0.00	0	0	0
Unit 2	3.32	46.08	147	133	140
Unit 3	0.00	0.00	0	0	0
Unit 4	4.11	60.14	195	162	200
Unit 5	9.03	124.58	430	341	400
Unit 6	8.63	119.53	395	345	400
Unit 7	8.88	123.52	415	350	400
Total	33.97	473.86			1540
Paras					
Unit 3	4.74	69.20	246	178	200
Unit 4	4.71	67.40	225	181	200
Total	9.45	136.60			400
Khaparkheda					
Unit 1	3.84	54.42	185	140	180
Unit 2	3.87	53.14	180	140	180
Unit 3	4.58	59.68	206	184	200
Unit 4	4.49	60.22	208	179	190
Unit 5	0.00	99.94	0	0	0
Total	16.78	327.41			750
Nasik					
Unit 3	4.52	60.88	205	175	190
Unit 4	4.22	33.36	190	158	190
Unit 5	4.22	59.21	192	164	190
Total	12.96	153.45			570
Uran					
All Units	11.47	113.58	650	440	470
Total	11.47	113.58			470
PENCH (MS)					
Pench (MS)	0.06	1.40	26	0	
Total	0.06	1.40			
Koyna					
Stage 1-2	1.40	38.64	190	40	600
Stage 4	0.26	27.40	162	0	250
Stage 3	0.54	13.99	180	0	240
Kovna 12&4 Total	1.65	66.04			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	2.19	80.03			1090
Hydro					
KDPH	0.89	7.94	38	37	36
VTRNA	1.03	14.55	61	0	61
TILLARI	0.38	4.87	64	0	60
BHTGR/VEER	0.00	0.51	0	0	0
BHIRA T.R.	0.15	2.99	79	0	80
RNGR+BHTSA	0.34	3.44	16	16	15
BHANDARDRA	0.32	4.13	14	13	15
ELDARY	0.33	2.89	14	13	0
SMLHY PTN	0.85	15.32	43	32	25
GHATGHAR	1.13	14.54	250	0	0
Total	5.43	71.19			292
Wind					
MalharPeth	0.08	2.32			
Vankuswadi	0.12	4.70			
ATIT	0.01	0.50			
Kale	0.02	1.58			
Satara	0.85	35.37			
Shirala	0.04	2.37			
K Mahankal	0.01	7.15			
Supa	0.06	1.02			
Vita	0.37	8.10			
Dondaicha	0.71	8.99			
Sakri	0.12	0.87			
Nandurbar	0.24	3.42			
Khandke	0.30	4.15			
Khaparale	0.04	1.95			
Total	2.97	82.50			
CPP					
JSW JAIGAD	19.60	317.61	938	755	1095
WARDHA	2.57	36.82	119	91	110
Adani	49.54	701.05	2340	1700	2359
Other CPPs	22.50	324.56			665
Total	94.21	1380.04			4229
SOLAR					
Total	0.92	12.85			
Total	0.92	12.85			
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	8.40	140.45	486	314	500
Trombay 6	0.00	0.00	0	0	0
Trombay 7A	0.00	24.33	0	0	0
Trombay 7B	0.00	15.56	0	0	0
Trombay 8	5.08	70.21	251	199	250
TATA Hydro	0.55	51.29	77	0	447
Total	14.04	301.85			1197
REL					
1&2	5.00	123.43	263	192	250
Total	5.00	123.43			250
Cent Sect					
Share					5106
Total					5106
MS PG CL	Thermal	115.06	1666.25		4982
	Thml+Gas	126.53	1779.83		5452
	Hydro	7.62	151.23		1382
	Total	134.15	1931.06		6834
State Total		251.35	3833.12		17616

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 14/Dec/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	4691	152	440	5283	256	3841	0	3383	3678	-820	-1105	11953	89	12042	1812	13854	50.03
2	4701	153	463	5317	241	3849	0	3256	3345	-682	-951	11801	58	11859	1660	13519	50.04
3	4707	157	466	5330	190	3824	0	3003	3135	-637	-856	11623	58	11681	1564	13245	50.05
4	4701	163	469	5333	196	3857	0	3168	2895	-637	-806	11475	58	11533	1513	13046	50.06
5	4744	157	468	5369	131	3817	0	3402	3371	-637	-791	11897	58	11955	1502	13457	50.21
6	4789	158	470	5417	84	3883	0	4409	3928	-637	-836	12476	58	12534	1546	14080	50.06
7	4814	158	470	5442	103	3860	0	4885	4587	-637	-860	13132	62	13194	1573	14767	49.99
8	4756	315	468	5539	64	3916	9	4931	5281	-670	-795	14014	62	14076	1601	15677	49.99
9	4951	345	467	5763	40	4291	56	4924	4659	-767	-724	14085	62	14147	1715	15862	49.92
10	5020	553	468	6041	22	4421	98	4962	4804	-916	-821	14565	63	14628	1848	16476	49.92
11	5019	626	461	6106	34	4440	116	5020	4785	-1003	-939	14542	59	14601	1958	16559	49.95
12	5133	543	457	6133	46	4400	140	5061	4785	-1053	-931	14573	59	14632	1969	16601	50.00
13	5384	279	455	6118	59	4324	140	5116	4667	-1001	-959	14349	118	14467	1947	16414	49.96
14	4818	219	455	5492	72	4313	131	5076	5161	-884	-1083	14086	60	14146	1871	16017	49.99
15	4745	258	453	5456	97	4195	108	5038	5214	-847	-1037	14035	60	14095	1785	15880	49.96
16	4697	299	456	5452	107	4188	79	4966	4939	-814	-980	13811	61	13872	1736	15608	50.03
17	4713	269	460	5442	130	4022	40	4975	4566	-783	-961	13265	63	13328	1714	15042	50.01
18	4663	229	467	5359	174	3682	6	4769	4137	-800	-994	12365	63	12428	1745	14173	49.94
19	4691	654	475	5820	171	3520	0	4633	4828	-940	-1167	13172	63	13235	1938	15173	49.96
20	4674	749	494	5917	169	3564	0	4663	4799	-974	-1222	13227	63	13290	2004	15294	49.95
21	4672	548	500	5720	144	3490	0	4451	3890	-1002	-1247	11997	62	12059	1969	14028	50.02
22	4714	216	505	5435	145	3513	0	4258	3789	-1013	-1218	11664	62	11726	1929	13655	50.12
23	4669	214	535	5418	162	3511	0	3676	3494	-951	-1081	11504	62	11566	1792	13358	49.98
24	4596	204	650	5450	136	3488	0	3597	3327	-859	-947	11454	62	11516	1657	13173	50.15
MUs	115.06	7.62	11.47	134.15	2.97	94.21	0.92	105.62	102.06	-19.96	-23.31	311.06	1.54	312.61	42.35	354.96	50.01

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 14/Dec/2014

Position as on 6.30 Hrs of 15/Dec/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.	
Tata Trombay 6	500	21/11/2014	21.11		Continued.	Economic Shut Down	
Uran Unit 8	108	26/11/2014	00.02		Continued.	Gas Shortage	
REL 2	250	08/12/2014	05.21		Continued.	over speed protection	
CPP Adani U1	660	08/12/2014	14.45		Continued.	Uproting of turbine steam chest drain line	
Khaparkheda Unit 5	500	11/12/2014	18.05	15/12/2014	02.05	Bunkering Problem.	
Tata Trombay 7B	60	11/12/2014	20.39		Continued.	Mandatory Gas Path Inspection.	
Tata Trombay 7A	120	11/12/2014	21.51		Continued.	Mandatory Gas Path Inspection.	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 14/Dec/2014

Position as on 6.30 Hrs of 15/Dec/2014

Name of Line	Tripped Date	Tripped Time	Synchronised Date	Synchronised Time	Reason of Outage
InterState					
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Tarapur - Borivali	21/11/2014	14.51		Continued.	Mumbai Strengthening work.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Kolhapur - Mapusa - II	12/12/2014	16.43		Continued.	Over Voltage
Dhule-Sar'Sarovar - I	13/12/2014	20.20		Continued.	Over Voltage
Kolhapur - Mapusa - I	13/12/2014	20.39	14/12/2014	08.20	Over Voltage
Kolhapur - Mapusa - I	14/12/2014	16.34		Continued.	Over Voltage
Dhule-Sar'Sarovar - II	14/12/2014	23.56		Continued.	over voltage
Voltage Level : 400KV			Outage Type TRIPPED		
Dabhol-Nagothane-II	13/12/2014	00.00		Continued.	Over Voltage
Voltage Level : 220KV			Outage Type TRIPPED		
Nasik-Navsari-I	15/12/2014	02.05		Continued.	distance protection
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
400/220 KV 315 MVA ICT-II @ Nagothane.	12/11/2014	13.02		Continued.	Shifted to TBC for BKR overloading.
400/220 KV 500 MVA ICT - I @ Warora	23/11/2014	08.10		Continued.	Leakage in Nitrogen Cylinder of B Ph CTR System.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Borivali-Ghodbandar	25/11/2014	10.43		Continued.	Erection & Stringing Work.
Ghodbandar - Bhoisor (MSETCL)	25/11/2014	11.36		Continued.	Erection & Stringing Work.
Dahanu-Bhoisor	14/12/2014	08.02	14/12/2014	09.26	Comissioning of New Bus Bar Protection at DTSP
Dahanu - Ghodbandar - I	14/12/2014	09.32	14/12/2014	10.28	Comissioning of New Bus Bar Protection at DTSP
Dahanu-Versova	14/12/2014	11.13	14/12/2014	12.11	Comissioning of New Bus Bar Protection at DTSP
Dahanu-Ghodbandar-II	14/12/2014	12.20	14/12/2014	17.49	Comissioning of New Bus Bar Protection at DTSP
Bus-Coupler @ Dahanu	14/12/2014	12.42	14/12/2014	17.09	Comissioning of New Bus Bar Protection at DTSP
Voltage Level : 500KV			Outage Type HAND TRIPPED		
765 kv Wardha PG - Abad PG 2	15/12/2014	01.10		Continued.	over voltage
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Bhusawal- Aurangabad	11/12/2014	17.16	14/12/2014	07.24	Over Voltage.
Karad - Kolhapur - I	13/12/2014	16.51		Continued.	Over Voltage
Karad-Jaigad I	13/12/2014	20.56	14/12/2014	09.37	Over Voltage
Lonikand- Koyna Stage IV	13/12/2014	22.12	14/12/2014	09.38	Over Voltage
Karad-Jaigad I	14/12/2014	16.37		Continued.	Over Voltage
Bhusawal- Aurangabad	14/12/2014	17.12		Continued.	Over Voltage
Lonikand- Koyna Stage IV	14/12/2014	20.23		Continued.	Over Voltage
Deepnagar-Tapitatanda	15/12/2014	00.02	15/12/2014	05.49	Over voltage
Voltage Level : 400KV			Outage Type TRIPPED		
New Koyna - Dabhol - I	13/12/2014	03.02		Continued.	Over Voltage
400/220kv 315MVA ICT-2 @ Bhusawal	14/12/2014	14.47	14/12/2014	22.32	B-PH LA BRUST AT HV SIDE

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 14/Dec/2014

Position as on 6.30 Hrs of 15/Dec/2014

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Karad - Kolhapur - II	14/12/2014	23.57		Continued.	over voltage
Voltage Level : 220KV			Outage Type TRIPPED		
220/110KV 200MVA ICT-III at Borivali	21/09/2014	09.16		Continued.	monkey fault

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 15/Dec/2014

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	0
Unit 6	210	160
Unit 7	210	170
	620	330
Bhusawal		
Unit 2	210	0
Unit 3	210	155
Unit 4	500	350
Unit 5	500	313
	1420	818
Parli		
Unit 3	210	0
Unit 4	210	0
Unit 5	210	155
Unit 6	250	204
Unit 7	250	205
	1130	564
Chandrapur		
Unit 1	210	0
Unit 2	210	140
Unit 3	210	0
Unit 4	210	200
Unit 5	500	400
Unit 6	500	400
Unit 7	500	400
	2340	1540
Paras		
Unit 3	250	200
Unit 4	250	200
	500	400
Khaparkheda		
Unit 1	210	180
Unit 2	210	180
Unit 3	210	200
Unit 4	210	190
Unit 5	500	300
	1340	1050
Nasik		
Unit 3	210	190
Unit 4	210	190
Unit 5	210	190
	630	570
Uran		
All Units	852	470
	852	470
PENCH (MS)		
Pench (MS)	53	
	53	
Koyna		
Stage 1-2	600	600
Stage 4	1000	250
Stage 3	320	240
	1920	1090
Hydro		
KDPH	40	36
VTRNA	60	61

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	60
BHTGR/VEER	21	0
BHIRA T.R.	80	80
RNGR+BHTSA	20	16
BHANDARDRA	45	14
ELDARY	23	14
SMLHY PTN	12	12
GHATGHAR	250	0
	611	293
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	1095
WARDHA	405	110
Adani	2640	2359
Other CPPs	300	665
	4545	4229
SOLAR		
Total	0	
	0	
Tata		
Trombay 4	150	0
Trombay 5	500	500
Trombay 6	500	0
Trombay 7A	120	0
Trombay 7B	60	0
Trombay 8	250	250
TATA Hydro	444	447
	2024	1197
REL		
1&2	500	250
	500	250
Cent Sect		
Share	3455	5754
	3455	5754