



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

State Load Dispatch Center, Airoli

Daily system Report

for

31/Dec/2014

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 31/Dec/2014 WEDNESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	121.295	3746.275	1) Gujrat	1.034	41.815
2) Hydro	9.392	296.942	2) Madhya Pradesh	10.314	346.399
3) Gas	7.905	267.712	3) Chattisgarh	4.930	183.950
Total MSGENCO	138.592	4310.929	4) Maharashtra Net	83.506	2658.776
B) 1) JSW JAIGAD	19.935	648.992	(Incl. 765kV Solapur-Raichur)	-14.143	-233.680
2) WPCL	2.620	81.748	5) Goa	-6.498	-187.303
3) ADANI	42.460	1511.990	6) TAPS 1&2 Injection	2.478	120.308
4) Other CPP / IPP	24.098	709.839	7) RGPPL Injection	0.000	0.000
5) Wind Generation	3.231	220.706	8) Pench (Excess)	-0.150	-3.675
6) PENCH (MS)	0.150	3.675	# Total Cent. Sector	95.614	3160.270
7) SOLAR	0.640	29.687	F) Other Exchanges		
C) 1) TPCL Thermal	14.635	496.651	1) With TPCL (Excess)	-17.334	-646.536
2) TPCL Hydro	3.661	111.588	G) Bilateral Power *		
TOTAL TPCL	18.296	608.239	1) MSEDCL Bilateral	18.789	749.385
3) REL Thermal	11.108	278.024	Include PX	-3.249	-65.334
D) STATE			2) MUMBAI Bilateral	15.964	568.306
1) Thermal (A1+C1+C3)	147.038	4520.950	Include PX	-0.762	38.016
2) Hydro (A2+B6+C2)	13.203	412.205	3) MUMBAI Schedule	15.964	575.707
3) Gas (A3)	7.905	267.712	H) ENERGY CATERED (MUs)		
4) Wind (B5)	3.231	220.706	1) MSEDCL	310.006	10031.300
5) CPP/IPP (B1+B2+B3+B4)	89.113	2952.569	2) TPCL	29.180	938.862
6) SOLAR (B7)	0.640	29.687	3) REL	17.557	593.198
TOTAL STATE	261.130	8403.829	TOTAL STATE	356.743	11563.360

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 10 Hrs	B. Evening Peak at 14 Hrs	C. Night Minimum at 4 Hrs
MSGENCO Thermal	5345	5438	4717
MSGENCO Hydro	1331	382	127
MSGENCO Gas	310	309	318
MSGENCO Total Generation	6986	6129	5162
Central Sector Receipt	4870	4966	2663
WIND	123	93	210
CPP / IPP	3892	3931	3454
SOLAR	58	98	0
Exchange with Mumbai	-690	-805	-393
MSEDCL DEMAND MET	15239	14430	11096
Load Shedding	67	68	54
MSEDCL DEMAND	15306	14498	11150
TPCL GENERATION	1089	983	514
R-INFRA GENERATION	523	522	387
TPCL+R-INFRA DEMAND	2302	2310	1294
STATE DEMAND MET	17541	16740	12390
STATE DEMAND	17608	16808	12444
Frequency (Hz)	49.84	50.04	50.03

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.28 Hz at 23:59 Hrs	49.61 Hz at 09:18 Hrs	49.98	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 31/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	3.94	101.76	175	150	155
Unit 7	3.99	123.08	180	150	150
Total	7.94	224.84			305
Bhusawal					
Unit 2	0.00	0.00	0	0	0
Unit 3	3.99	65.06	185	160	170
Unit 4	10.22	291.84	515	355	500
Unit 5	9.72	278.92	510	365	426
Total	23.94	635.82			1096
Parli					
Unit 3	0.00	0.00	0	0	
Unit 4	0.00	0.00	0	0	0
Unit 5	3.55	110.30	158	137	152
Unit 6	5.34	161.60	250	200	200
Unit 7	0.57	139.00	177	0	0
Total	9.46	410.90			352
Chandrapur					
Unit 1	0.00	0.00	0	0	0
Unit 2	3.40	100.77	146	137	145
Unit 3	3.84	6.66	181	139	150
Unit 4	4.12	130.58	189	157	165
Unit 5	9.50	280.89	460	344	370
Unit 6	8.71	269.33	395	350	360
Unit 7	0.00	237.55	0	0	0
Total	29.56	1025.78			1190
Paras					
Unit 3	4.90	151.03	247	185	200
Unit 4	4.96	137.96	232	186	250
Total	9.85	288.98			450
Khaparkheda					
Unit 1	3.90	119.94	180	145	180
Unit 2	3.80	117.33	180	145	180
Unit 3	4.73	138.66	210	162	210
Unit 4	4.76	139.80	206	191	210
Unit 5	10.28	277.28	465	400	500
Total	27.48	793.01			1280
Nasik					
Unit 3	4.36	137.13	190	170	200
Unit 4	4.35	96.19	190	173	190
Unit 5	4.36	133.63	189	175	190
Total	13.06	366.95			580
Uran					
All Units	7.90	267.71	408	305	465
Total	7.90	267.71			465
PENCH (MS)					
Pench (MS)	0.15	3.68	23	0	
Total	0.15	3.68			
Koyna					
Stage 1-2	3.01	83.24	465	40	600
Stage 4	2.45	51.57	467	0	250
Stage 3	0.94	28.95	160	0	240
Kovna 12&4 Total	5.46	134.81			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	6.40	163.76			1090
Hydro					
KDPH	0.44	14.17	19	18	19
VTRNA	0.00	15.83	0	0	0
TILLARI	0.25	10.57	64	0	64
BHTGR/VEER	0.09	1.01	4	3	2
BHIRA T.R.	0.20	6.13	80	0	80
RNGR+BHTSA	0.38	9.74	16	16	15
BHANDARDRA	0.00	5.54	0	0	
ELDARY	0.00	6.75	0	0	
SMLHY PTN	0.91	30.73	38	38	11
GHATGHAR	0.71	32.72	125	0	
Total	2.99	133.18			191
Wind					
MalharPeth	0.11	5.24			
Vankuswadi	0.16	11.32			
ATIT	0.02	1.15			
Kale	0.09	4.13			
Satara	1.41	104.52			
Shirala	0.08	6.42			
K Mahankal	0.01	7.45			
Supa	0.03	2.61			
Vita	0.39	24.14			
Dondaicha	0.53	27.18			
Sakri	0.03	2.93			
Nandurbar	0.22	9.39			
Khandke	0.12	8.58			
Khaparale	0.03	5.65			
Total	3.23	220.71			
CPP					
JSW JAIGAD	19.94	648.99	941	683	855
WARDHA	2.62	81.75	112	106	110
Adani	42.46	1511.99	1990	1610	2000
Other CPPs	24.10	709.84			745
Total	89.11	2952.57			3710
SOLAR					
Total	0.64	29.69			
Total	0.64	29.69			
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	9.27	296.28	473	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	5.36	160.47	252	199	250
TATA Hydro	3.66	111.59	424	0	447
Total	18.30	608.24			1197
REL					
1&2	11.11	278.02	524	385	500
Total	11.11	278.02			500
Cent Sect					
Share					4935
Total					4935
MS PG CL	Thermal	121.30	3746.28		5253
	Thml+Gas	129.20	4013.99		5718
	Hydro	9.39	296.94		1281
	Total	138.59	4310.93		6999
State Total		261.13	8403.83		17341

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 31/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	4782	117	317	5216	353	3468	0	2573	2761	-578	-568	11230	82	11312	1513	12825	49.93
2	4741	117	318	5176	331	3483	0	2643	2734	-475	-478	11246	54	11300	1391	12691	50.01
3	4730	127	319	5176	340	3445	0	2451	2696	-424	-405	11252	54	11306	1326	12632	49.97
4	4717	127	318	5162	210	3454	0	2446	2663	-396	-393	11096	54	11150	1294	12444	50.03
5	4711	122	317	5150	142	3553	0	2764	2885	-409	-403	11327	55	11382	1305	12687	50.08
6	4713	122	322	5157	118	3752	0	3754	3727	-474	-488	12266	64	12330	1392	13722	50.02
7	4892	117	323	5332	92	3838	0	4267	4595	-533	-589	13268	82	13350	1531	14881	49.94
8	5203	766	323	6292	79	4065	3	4334	4380	-482	-449	14370	85	14455	1723	16178	49.89
9	5244	958	317	6519	134	4157	25	4575	4641	-623	-439	15037	78	15115	1961	17076	49.85
10	5345	1331	310	6986	123	3892	58	4625	4870	-726	-690	15239	67	15306	2302	17608	49.84
11	5328	1351	319	6998	70	3772	91	4809	4562	-909	-760	14733	61	14794	2428	17222	49.89
12	5328	957	331	6616	80	3989	116	4941	5037	-949	-770	15068	64	15132	2431	17563	49.98
13	5420	868	305	6593	50	3889	104	4870	4832	-925	-815	14659	123	14782	2425	17207	49.94
14	5438	382	309	6129	93	3931	98	4857	4966	-840	-805	14430	68	14498	2310	16808	50.04
15	5477	156	310	5943	105	3783	74	4921	5035	-809	-777	14181	63	14244	2283	16527	50.01
16	5333	121	370	5824	118	3695	54	5083	4973	-733	-715	13966	60	14026	2269	16295	49.96
17	5280	116	342	5738	123	3689	15	4778	4888	-673	-777	13694	63	13757	2257	16014	49.93
18	4925	121	358	5404	106	3681	2	4490	4435	-668	-1170	12475	71	12546	2226	14772	49.98
19	4894	444	313	5651	92	3649	0	4492	4754	-750	-1234	12929	66	12995	2312	15307	50.05
20	4935	467	315	5717	143	3700	0	4239	4243	-692	-1045	12781	64	12845	2325	15170	50.05
21	4953	115	315	5383	136	3627	0	4028	3800	-614	-951	12003	61	12064	2194	14258	50.02
22	4929	155	340	5424	71	3511	0	3034	3321	-726	-1030	11299	58	11357	2012	13369	49.99
23	4985	115	386	5486	62	3555	0	2653	2439	-803	-870	10678	58	10736	1844	12580	49.99
24	4992	120	408	5520	60	3535	0	2248	2377	-751	-713	10779	58	10837	1684	12521	50.05
MUs	121.30	9.39	7.90	138.59	3.23	89.11	0.64	93.88	95.61	-15.96	-17.33	310.01	1.61	311.62	46.74	358.36	49.98

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 31/Dec/2014

Position as on 6.30 Hrs of 01/Jan/2015

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)	
Hydro GhatgharU2	125	23/12/2014	08.30		Continued.	Annual Overhaul	
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	
Tata Trombay 6	500	21/11/2014	21.11		Continued.	Economic Shut Down	
CPP Adani U1	660	08/12/2014	14.45		Continued.	Uproting of turbine steam chest drain line	
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.	
CPP JSW (J) U2	300	19/12/2014	16.55		Continued.	No Schedule	
Cent_Sect TARAPUR-3	540	19/12/2014	19.04		Continued.	W/Dn.	
CPP WPCL U-3	135	25/12/2014	14.02		Continued.	ID Fan Problem.	
Chandrapur Unit 7	500	27/12/2014	21.44	01/01/2015	00.01	Boiler Tube Leakage	
Uran Unit 7	108	28/12/2014	04.49		Continued.	Gas Shortage.	
Parli Unit 7	250	28/12/2014	06.20	31/12/2014	18.17	Boiler Tube Leakage	

State Load Dispatch Center,Airoli (MSETCL)
Details of Generating Unit Outages/Trippings for 31/Dec/2014

Position as on 6.30 Hrs of 01/Jan/2015

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
Uran Unit B0	120	29/12/2014	12.30		Continued.	Gas Shortage.	
Uran Unit 8	108	29/12/2014	21.39	31/12/2014	12.49	Turbine Control Fault.	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 31/Dec/2014

Position as on 6.30 Hrs of 01/Jan/2015

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 - I	29/12/2014	16.06	31/12/2014	08.28	Over Voltage.
Dhule-Sar'Sarovar - I	30/12/2014	20.35	31/12/2014	06.19	Over Voltage.
Kolhapur-Solapur (PG) II	31/12/2014	01.16	31/12/2014	07.32	Over Voltage.
Kolhapur - Mapusa - I	31/12/2014	16.18	01/01/2015	09.39	Over Voltage.
Kolhapur-Solapur (PG) II	31/12/2014	22.07	01/01/2015	09.23	Over Voltage.
Voltage Level : 400KV			Outage Type TRIPPED		
Dabhol-Nagothane-II	13/12/2014	00.00		Continued.	Over Voltage
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
400/220 KV 500 MVA ICT - I @ Warora	23/11/2014	08.10		Continued.	Leakage in Nitrogen Cylinder of B Ph CTR System.
400/220 KV 315 MVA ICT-II @ Chandrapur	31/12/2014	09.46	31/12/2014	17.10	Fire detector trip indication.
Bableshwar-Taptitanda I	31/12/2014	14.00	31/12/2014	14.07	First time charged.
Bableshwar-Taptitanda II	31/12/2014	18.00	31/12/2014	18.45	First time charged.
OWN C.B.406 at Jejuri	01/01/2015	10.16	01/01/2015	15.00	Annual Testing work.
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.
Butibori - Khaperkheda	31/12/2014	08.59	31/12/2014	14.26	Stringing of conductor at Butibori S/S.
Butibori III-Butibori I	31/12/2014	09.09	31/12/2014	14.21	Stringing of conductor at Butibori S/S.
Kalyani-Baramati Agro	31/12/2014	09.55	31/12/2014	18.25	Tapping arrangement at Shirsuphal S/S.
Jejuri-Phursungi - I	01/01/2015	09.00	01/01/2015	16.16	Half Yearly Maint.Work.
Bhosari-Telco	01/01/2015	13.20	01/01/2015	18.12	Maint.Work.
Pedambe -Nerale	01/01/2015	15.15	01/01/2015	16.25	Tree cutting work.
Voltage Level : 400KV			Outage Type FORCED OUTAGE		
Lonikand- Koyna Stage IV	01/01/2015	09.36		Continued.	Insulator Repl. Work.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Karad - Kolhapur - I	24/12/2014	16.31	31/12/2014	09.32	Over Voltage,line already out.(4 days outage)
Bhusawal- Aurangabad	30/12/2014	17.04	01/01/2015	10.40	Over Voltage.
Karad-Jaigad I	30/12/2014	20.00	31/12/2014	11.46	Over Voltage.
Lonikand- Koyna Stage IV	30/12/2014	20.49	31/12/2014	06.21	Over Voltage.
Bableshwar-Taptitanda I	31/12/2014	16.15	31/12/2014	17.44	Due to noise in Y-Ph CT.
Lonikand- Koyna Stage IV	31/12/2014	20.56	01/01/2015	07.20	Over Voltage.
Karad - Kolhapur - I	01/01/2015	16.09	01/01/2015	09.28	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		
JEUR-Tembhurni	31/12/2014	21.28		Continued.	For safety due to fire on ICT.
Karkumbh-Jeur	31/12/2014	21.28	01/01/2015	02.50	For safety due to fire on ICT I.
220/132KV,100MVA ICT II,at Jeur	31/12/2014	21.28	01/01/2015	04.12	For safety due to fire on ICT I.

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 31/Dec/2014

Position as on 6.30 Hrs of 01/Jan/2015

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Voltage Level : 400KV			Outage Type TRIPPED		
765KV Koradi-III -- Tiroda - II	24/12/2014	15.38		Continued.	Distance Protection
Aurangabad - Taptithanda	01/01/2015	20.30	01/01/2015	21.06	Over Voltage.
Akola - II - Thaptitanda	01/01/2015	20.39	01/01/2015	21.12	Over Voltage.
Voltage Level : 220KV			Outage Type TRIPPED		
220/110KV 200MVA ICT-III at Borivali	21/09/2014	09.16		Continued.	monkey fault
220/132KV 100 MVA,ICT-I at Jeur	31/12/2014	21.28		Continued.	Diff.Prot.Optd.
Kharghar-TSS-Panvel	31/12/2014	21.47	01/01/2015	00.32	Dist.Prot.
Hingoli-Pusad	01/01/2015	03.18	01/01/2015	11.57	Y-Ph insulator string decapped.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 01/Jan/2015

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	0
Unit 6	210	159
Unit 7	210	169
	620	328
Bhusawal		
Unit 2	210	0
Unit 3	210	170
Unit 4	500	500
Unit 5	500	426
	1420	1096
Parli		
Unit 3	210	0
Unit 4	210	0
Unit 5	210	150
Unit 6	250	190
Unit 7	250	190
	1130	530
Chandrapur		
Unit 1	210	0
Unit 2	210	140
Unit 3	210	180
Unit 4	210	200
Unit 5	500	450
Unit 6	500	400
Unit 7	500	400
	2340	1770
Paras		
Unit 3	250	200
Unit 4	250	200
	500	400
Khaparkheda		
Unit 1	210	180
Unit 2	210	180
Unit 3	210	210
Unit 4	210	210
Unit 5	500	500
	1340	1280
Nasik		
Unit 3	210	200
Unit 4	210	190
Unit 5	210	190
	630	580
Uran		
All Units	852	465
	852	465
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	19
VTRNA	60	0

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	64
BHTGR/VEER	21	4
BHIRA T.R.	80	80
RNGR+BHTSA	20	16
BHANDARDRA	45	
ELDARY	23	
SMLHY PTN	12	10
GHATGHAR	250	
	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	942
WARDHA	405	110
Adani	2640	1728
Other CPPs	300	745
	4545	3525
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	500
	500	500
Cent Sect		
Share	3455	5317
	3455	5317

	21940	18271
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