



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

State Load Dispatch Center, Airoli

Daily system Report

for

31/Dec/2013

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 31/Dec/2013 TUESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	118.235	3437.229	1) Gujrat	12.806	376.900
2) Hydro	13.475	510.081	2) Madhya Pradesh	19.789	562.293
3) Gas	6.177	195.094	3) Chattisgarh	9.220	308.460
Total MSGENCO	137.887	4142.404	4) Maharashtra	67.422	2265.557
B) 1) JSW JAIGAD	19.388	571.102	5) Goa	-5.820	-170.283
2) WPCL	2.867	214.239	6) TAPS 1&2 Injection	7.748	137.935
3) ADANI	39.500	989.460	7) RGPPL Injection	0.000	145.632
4) Other CPP / IPP	13.106	313.246	8) Pench (Excess)	-0.074	-12.808
5) Wind Generation	3.860	120.851	# Total Cent. Sector	111.091	3613.686
6) PENCH (MS)	0.074	12.808	F) Other Exchanges		
7) SOLAR	0.634	24.750	1) With TPCL (Excess)	-15.774	-484.754
C) 1) TPCL Thermal	17.021	560.271	G) Bilateral Power *		
2) TPCL Hydro	3.425	122.287	1) MSEDCL Bilateral	24.563	753.615
TOTAL TPCL	20.446	682.558	Include PX	-0.969	-15.002
3) REL Thermal	11.270	352.018	2) MUMBAI Bilateral	13.558	462.156
D) STATE			Include PX	2.983	53.823
1) Thermal (A1+C1+C3)	146.526	4349.518	3) MUMBAI Schedule	13.558	464.955
2) Hydro (A2+B6+C2)	16.974	645.176	H) ENERGY CATERED (MUs)		
3) Gas (A3)	6.177	195.094	1) MSEDCL	312.633	9517.792
4) Wind (B5)	3.860	120.851	2) TPCL	31.341	990.726
5) CPP/IPP (B1+B2+B3+B4)	74.861	1138.087	3) REL	16.148	528.363
6) SOLAR (B7)	0.634	24.750	TOTAL STATE	360.122	11036.881
TOTAL STATE	249.032	6473.476			

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 17 Hrs	C. Night Minimum at 4 Hrs
MSGENCO Thermal	4983	5132	4567
MSGENCO Hydro	1618	1107	135
MSGENCO Gas	255	263	259
MSGENCO Total Generation	6856	6502	4961
Central Sector Receipt	5083	4620	4105
WIND	126	46	278
CPP / IPP	3403	3401	2627
SOLAR	92	22	0
Exchange with Mumbai	-794	-690	-295
MSEDCL DEMAND MET	14766	13901	11676
Load Shedding	814	478	0
MSEDCL DEMAND	15580	14379	11676
TPCL GENERATION	1222	1079	592
R-INFRA GENERATION	527	526	400
TPCL+R-INFRA DEMAND	2543	2295	1287
STATE DEMAND MET	17309	16196	12963
STATE DEMAND	18123	16674	12963
Frequency (Hz)	49.93	49.97	50.45

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.67 Hz at 02.23 Hrs	49.62 Hz at 08.36 Hrs	50.08	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/2013

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	0.00	45.77	0	0	0
Unit 6	3.14	81.17	180	0	100
Unit 7	0.00	94.30	0	0	0
Total	3.14	221.23			100
Bhusawal					
Unit 2	3.28	98.90	145	130	140
Unit 3	3.32	99.94	155	125	140
Unit 4	8.98	152.31	405	350	387
Unit 5	6.32	135.70	290	230	0
Total	21.92	486.84			667
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	3.59	118.33	166	131	175
Unit 5	3.50	104.55	163	135	170
Unit 6	4.57	133.09	206	175	180
Unit 7	4.33	127.89	200	155	180
Total	16.00	483.86			705
Chandrapur					
Unit 1	3.38	99.72	145	135	150
Unit 2	3.27	73.93	141	128	140
Unit 3	4.12	112.00	189	154	170
Unit 4	4.64	127.24	210	177	200
Unit 5	0.00	0.00	0	0	0
Unit 6	9.20	267.17	420	360	375
Unit 7	8.70	278.72	380	311	300
Total	33.30	958.79			1335
Paras					
Unit 3	5.04	135.38	226	182	220
Unit 4	5.04	159.39	229	191	220
Total	10.08	294.77			440
Khaparkheda					
Unit 1	3.54	75.72	170	115	160
Unit 2	3.40	65.82	170	125	160
Unit 3	4.24	91.24	196	161	190
Unit 4	0.83	111.77	167	0	0
Unit 5	9.04	275.07	455	320	480
Total	21.05	619.62			990
Nasik					
Unit 3	4.27	118.84	190	165	190
Unit 4	4.20	131.47	186	165	190
Unit 5	4.29	121.81	190	170	190
Total	12.76	372.11			570
Uran					
All Units	6.18	195.09	264	249	250
Total	6.18	195.09			250
PENCH (MS)					
Pench (MS)	0.07	12.81	43	0	
Total	0.07	12.81			
Koyna					
Stage 1-2	3.34	122.62	480	40	600
Stage 4	4.25	179.70	766	0	250
Stage 3	1.58	64.43	224	0	240
Kovna 12&4 Total	7.59	302.32			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	9.17	366.75			1090
Hydro					
KDPH	0.15	13.18	19	0	18
VTRNA	0.00	0.00	0	0	0
TILLARI	0.00	0.00	0	0	0
BHTGR/VEER	0.07	1.93	3	3	2
BHIRA T.R.	0.16	6.74	41	0	40
RNGR+BHTSA	0.38	11.74	16	16	15
BHANDARDRA	0.23	13.48	30	0	20
ELDARY	0.32	3.42	15	7	0
SMLHY PTN	0.74	31.51	38	28	13
GHATGHAR	2.26	61.32	250	0	0
Total	4.31	143.33			108
Wind					
MalharPeth	0.50	7.39			
Vankuswadi	0.33	13.96			
ATIT	0.49	5.45			
Kale	0.14	4.99			
Satara	0.24	41.95			
Shirala	0.11	4.92			
K Mahankal	0.62	2.80			
Supa	0.11	2.01			
Vita	0.50	12.25			
Dondaicha	0.23	13.98			
Sakri	0.04	1.55			
Nandurbar	0.04	1.10			
Khandke	0.42	5.14			
Khaparale	0.10	3.38			
Total	3.86	120.85			
CPP					
JSW JAIGAD	19.39	571.10	902	702	850
WARDHA	2.87	214.24	194	114	120
Adani	39.50	989.46	1830	1280	1851
Other CPPs	13.11	313.17			245
Total	74.86	2087.97			3066
SOLAR					
Total	0.63	24.75			
Total	0.63	24.75			
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	9.58	318.39	502	315	500
Trombay 6	0.00	0.00	0	0	0
Trombay 7A	1.19	40.22	50	49	120
Trombay 7B	0.98	32.53	41	40	60
Trombay 8	5.27	169.13	253	183	250
TATA Hydro	3.42	122.29	380	0	447
Total	20.45	682.56			1377
REL					
1&2	11.27	352.02	527	393	500
Total	11.27	352.02			500
Cent Sect					
Share					5099
Total					5099
MS PG CL	Thermal	118.24	3437.23		4807
	Thml+Gas	124.41	3632.32		5057
	Hydro	13.48	510.08		1198
	Total	137.89	4142.40		6255
State Total		249.03	6473.48		16297

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 31/Dec/2013

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	4588	120	259	4967	232	2684	0	4025	4184	-626	-529	11538	0	11538	1524	13062	50.35
2	4587	120	259	4966	261	2630	0	3813	4135	-524	-395	11597	0	11597	1391	12988	50.43
3	4539	124	259	4922	285	2583	0	3763	4183	-498	-332	11641	0	11641	1327	12968	50.48
4	4567	135	259	4961	278	2627	0	3748	4105	-486	-295	11676	0	11676	1287	12963	50.45
5	4607	120	260	4987	262	2639	0	3899	4268	-486	-315	11841	0	11841	1300	13141	50.13
6	4631	120	260	5011	232	2711	0	4234	4823	-510	-402	12375	43	12418	1385	13803	50.05
7	4898	125	257	5280	255	3152	0	4583	5122	-423	-438	13371	264	13635	1529	15164	49.99
8	4990	246	250	5486	248	3331	8	4642	5035	-363	-358	13750	737	14487	1711	16198	49.94
9	5064	550	249	5863	255	3325	25	4522	5035	-353	-411	14135	856	14991	1981	16972	49.86
10	5063	1399	257	6719	248	3403	57	4559	4809	-453	-540	14723	686	15409	2290	17699	49.95
11	5039	1199	257	6495	163	3408	82	4795	5170	-712	-778	14544	695	15239	2475	17714	49.98
12	4983	1618	255	6856	126	3403	92	4809	5083	-740	-794	14766	814	15580	2543	18123	49.93
13	5012	1328	252	6592	45	3428	99	4779	5009	-716	-760	14413	954	15367	2502	17869	49.99
14	5050	1070	251	6371	26	3396	98	4761	5027	-626	-685	14233	855	15088	2353	17441	49.96
15	5097	1230	253	6580	36	3360	106	4736	4842	-584	-671	14253	650	14903	2349	17252	50.01
16	5081	1482	263	6826	46	3381	36	4665	4624	-589	-657	14256	555	14811	2319	17130	49.90
17	5132	1107	263	6502	46	3401	22	4654	4620	-605	-690	13901	478	14379	2295	16674	49.97
18	5134	149	263	5546	48	3337	9	4716	4659	-597	-853	12746	174	12920	2305	15225	50.01
19	5046	257	264	5567	40	3386	0	4646	5161	-700	-1067	13087	73	13160	2382	15542	50.03
20	5122	395	259	5776	109	3370	0	4564	4656	-620	-1010	12901	84	12985	2381	15366	50.01
21	5106	165	257	5528	118	3302	0	4233	4326	-583	-1103	12171	59	12230	2209	14439	50.09
22	4978	140	257	5375	153	3184	0	4130	4028	-554	-1044	11696	45	11741	2030	13771	50.16
23	4940	139	257	5336	165	2789	0	4055	4108	-605	-900	11498	4	11502	1888	13390	49.99
24	4981	137	257	5375	182	2631	0	4145	4078	-605	-747	11519	4	11523	1733	13256	50.16
MUs	118.24	13.48	6.18	137.89	3.86	74.86	0.63	105.48	111.09	-13.56	-15.77	312.63	8.03	320.66	47.49	368.15	50.08

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/2013

Position as on 6.30 Hrs of 01/Jan/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	
Chandrapur Unit 5	500	14/07/2013	00.01		Continued.	Condenser replacement work.	
Koyna Unit 9	80	27/12/2013	08.15	31/12/2013	18.50	Runner & Penstock Work.	
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	
Tata Trombay 6	500	19/07/2013	23.54		Continued.	Economic shut down.	
Dabhol 2B	230	08/08/2013	15.03		Continued.	Gas Shortage	
CPP VIPL	300	02/10/2013	00.45		Continued.	Turbine bearing vibration high.	
CPP JSW (J) U2	300	21/10/2013	00.00		Continued.	Lack of Shedule.	
Uran Unit 5	108	25/11/2013	21.33		Continued.	Gas Shortage.	
CPP WPCL U-2	135	13/12/2013	13.17		Continued.	ID Fan problem	
Koradi Unit 5	200	19/12/2013	01.29		Continued.	I D Fan Problem.	
Uran Unit 7	108	19/12/2013	12.21		Continued.	Gas Shortage.	
CPP WPCL U-4	135	22/12/2013	00:07		Continued.	Generation Water Cooler Leakage.	
Koradi Unit 7	210	27/12/2013	15.14		Continued.	Boiler Tube Leakage	
Koradi Unit 6	210	27/12/2013	18.30	31/12/2013	03.57	Boiler Tube Leakage	
Dabhol 3X	290	29/12/2013	05.47		Continued.	Gas Shortage	
Dabhol 3B	230	29/12/2013	06.14		Continued.	Gas Shortage	
Khaparkheda Unit 4	210	29/12/2013	22.41	31/12/2013	16.56	Boiler Tube Leakage	
CPP WPCL U-1	135	31/12/2013	01.21		Continued.	I D Fan Problem.	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 31/Dec/2013

Position as on 6.30 Hrs of 01/Jan/2014

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
Solapur PG 765 KV - Raichur - I	31/12/2013	20.25	31/12/2013	20.26	First Time Charged.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Borivali - Tarapur	07/12/2013	10.15		Continued.	MUMBAI STRENGTHENING WORK
Voltage Level : 400KV			Outage Type HAND TRIPPED		
A'bad-Talegaon PG-1	07/12/2013	10.12		Continued.	Over Voltage.(Ready for charging)
Kolhapur - Mapusa - I	30/12/2013	16.27	31/12/2013	08.26	Over Voltage.
Solapur - Solapur (PG)	30/12/2013	21.28	31/12/2013	06.30	Over Voltage.
Kolhapur-Solapur(PGCIL)-I	30/12/2013	22.34	31/12/2013	09.46	Over Voltage.
Dhule-Sar'Sarovar - I	30/12/2013	23.15	31/12/2013	07.38	Over Voltage.
Kolhapur - Mapusa - I	31/12/2013	16.35		Continued.	Over Voltage.
Dhule-Sar'Sarovar - II	31/12/2013	21.53	01/01/2014	06.23	Over Voltage.
Kolhapur-Solapur(PGCIL)-I	31/12/2013	21.56	01/01/2014	07.04	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		
Wardha - Deoli (PGCIL)	05/12/2013	19.30		Continued.	To control wardha-Yeotmal O/L
Voltage Level : 400KV			Outage Type TRIPPED		
Karad - Solapur (PGCIL)	31/12/2013	02.30	31/12/2013	06.50	Over Voltage.
Karad - Solapur (PGCIL)	31/12/2013	21.40		Continued.	Over Voltage.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
400/132 KV 200 MVA ICT - II @ Khadka	11/11/2013	09.07		Continued.	Replacement of Old 200 MVA ICT Under LES Upto 04/01/2014.
Dabhol - Nagothane - I	12/12/2013	10.48	31/12/2013	08.36	Testing Work.RFC 19.10 Hrs.of 12.12.2013
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Pusad-Nanded	05/12/2013	06.03		Continued.	220KV Ghatodi S/S LILO Work.
Ghodbandar - Bhoisor (MSETCL)	07/12/2013	10.38		Continued.	MUMBAI STRENGTHENING WORK
Khaperkheda - Wardha.	30/12/2013	09.53		Continued.	Connection of Jumpering Work Towards the LILO Arrangement for Butibori III S/S ON 220 KV Khaperkheda Wardha Line.
Bus Coupler Bay @ Uran	31/12/2013	10.36		Continued.	Isolator Replacement Work Under Jica -2 (2 Days Outage).
Voltage Level : 220KV			Outage Type FORCED OUTAGE		
Pedambe - Oni	31/12/2013	10.25	31/12/2013	16.50	For Replaceing 220 KV LA @ Oni.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
400/220 KV 100 MVA Spare Unit @ Koradi	12/07/2012	07.11		Continued.	Main Buchholz prot.operated
Deepnagar-Waluj I	03/12/2013	12:08		Continued.	Over Voltage.
Karad - Kolhapur - II	29/12/2013	16.06		Continued.	Over Voltage
Bhusawal - Deepnagar - I	30/12/2013	13.14		Continued.	Over Voltage.
Karad-Jaigad I	30/12/2013	17.00	31/12/2013	09.23	Over Voltage.
Lonikand- Koyna Stage IV	30/12/2013	21.05	31/12/2013	08.56	Over Voltage.
Karad-Jaigad I	31/12/2013	16.37		Continued.	Over Voltage.

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 31/Dec/2013

Position as on 6.30 Hrs of 01/Jan/2014

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Lonikand- Koyna Stage IV	31/12/2013	20.54		Continued.	Over Voltage.
New Koyna - Dabhol - II	01/01/2014	02.54		Continued.	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		
Chikhali - Jalna - I	17/11/2013	18.00		Continued.	To control Paras-Chikhali line loading
Chikhali - Jalna - II	17/11/2013	18.00		Continued.	To control Paras-Chikhali line loading
Voltage Level : 400KV			Outage Type TRIPPED		
Dabhol - New Koyna - I	31/12/2013	02.29	31/12/2013	06.15	Over Voltage.
Dabhol-Nagothane - II	31/12/2013	02.29		Continued.	Over Voltage.
Voltage Level : 220KV			Outage Type TRIPPED		
Talandge - Sawantwadi - II.	29/10/2013	17.30		Continued.	Dist Prot.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 01/Jan/2014

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	0
Unit 6	210	140
Unit 7	210	0
	620	140
Bhusawal		
Unit 2	210	140
Unit 3	210	140
Unit 4	500	410
Unit 5	500	
	1420	690
Parli		
Unit 3	210	0
Unit 4	210	145
Unit 5	210	145
Unit 6	250	165
Unit 7	250	160
	1130	615
Chandrapur		
Unit 1	210	150
Unit 2	210	140
Unit 3	210	200
Unit 4	210	210
Unit 5	500	0
Unit 6	500	425
Unit 7	500	375
	2340	1500
Paras		
Unit 3	250	220
Unit 4	250	220
	500	440
Khaparkheda		
Unit 1	210	180
Unit 2	210	180
Unit 3	210	190
Unit 4	210	190
Unit 5	500	500
	1340	1240
Nasik		
Unit 3	210	190
Unit 4	210	190
Unit 5	210	190
	630	570
Uran		
All Units	852	250
	852	250
PENCH (MS)		
Pench (MS)	53	
	53	
Koyna		
Stage 1-2	600	600
Stage 4	1000	250
Stage 3	320	320
	1920	1170
Hydro		
KDPH	40	18
VTRNA	60	0

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	0
BHTGR/VEER	21	2
BHIRA T.R.	80	40
RNGR+BHTSA	20	16
BHANDARDRA	45	20
ELDARY	23	0
SMLHY PTN	12	21
GHATGHAR	250	0
	611	117
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	850
WARDHA	405	120
Adani	1980	1869
Other CPPs	300	227
	3885	3066
SOLAR		
Total	0	
	0	
Tata		
Trombay 4	150	0
Trombay 5	500	500
Trombay 6	500	0
Trombay 7A	120	120
Trombay 7B	60	60
Trombay 8	250	250
TATA Hydro	444	447
	2024	1377
REL		
1&2	500	500
	500	500
Cent Sect		
Share	3455	4767
	3455	4767