



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

# **State Load Dispatch Center, Airoli**

## **Daily system Report**

**for**

**13/Apr/2009**

**State Load Dispatch Center, Airoli (MSETCL)**  
**Daily system Report for 13/Apr/2009 MONDAY**

I GENERATION (MUs)			II EXCHANGES (MUs)		
<b>A) MSGENCO</b>	<b>Daily</b>	<b>Monthly</b>	<b>E) Central Sector</b>	<b>Daily</b>	<b>Monthly</b>
1) Thermal	119.428	1621.185	1) Madhya Pradesh	50.512	775.281
2) Hydro	36.944	275.720	2) Gujrat	22.277	285.000
3) Gas	15.144	186.648	3) Goa	-6.076	-80.482
<b>Total MSGENCO</b>	<b>171.516</b>	<b>2083.553</b>	4) TAPS 1&2 (Inj.)	7.132	93.754
<b>B) OTHERS</b>			5) Pench (Excess)	-0.214	-1.619
1) RGPPL Gas	7.760	136.310	<b># Total Cent. Sector</b>	<b>73.631</b>	<b>1071.934</b>
2) Wind Generation	4.615	51.778	<b>F) Other Exchanges</b>		
3) PENCH (MS)	0.318	1.891	1) With TPCL	-4.172	-63.643
<b>C) TPCL &amp; REL</b>			<b>G) Bilateral Power *</b>		
1) TPCL Thermal	33.218	404.003	1) MSEDCL Bilateral	8.712	103.499
2) TPCL Hydro	5.456	51.165	Include PX	1.091	12.789
<b>TOTAL TPCL</b>	<b>38.674</b>	<b>455.168</b>	2) MUMBAI Bilateral	5.234	78.125
3) REL Thermal	12.672	164.658	Include PX	1.259	16.273
<b>D) STATE</b>			3) MUMBAI Schedule	5.234	79.525
1) Thermal (A1+C1+C3)	165.318	2189.846	<b>H) ENERGY CATERED (MUs)</b>		
2) Hydro (A2+B3+C2)	42.718	328.776	1) MSEDCL	253.668	3283.546
3) Gas (A3+B1)	22.904	322.958	2) TPCL	37.290	453.267
4) Wind (B2)	4.615	51.778	3) REL	18.224	230.184
<b>TOTAL STATE</b>	<b>235.555</b>	<b>2893.358</b>	<b>TOTAL STATE</b>	<b>309.182</b>	<b>3966.997</b>

**DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)**

PARTICULARS	A. Morning Peak at 10 Hrs	B. Evening Peak at 20 Hrs	C. Night Minimum at 2 Hrs
MSGENCO Thermal	5095	5122	4800
MSGENCO Hydro	1300	1775	1329
MSGENCO Gas	648	624	637
<b>MSGENCO Total Generation</b>	<b>7043</b>	<b>7521</b>	<b>6766</b>
Central Sector Receipt	3079	3099	2821
RGPPL	323	324	324
WIND	119	303	195
Exchange with TPCL	-331	-153	-140
<b>MSEDCL DEMAND MET</b>	<b>10233</b>	<b>11148</b>	<b>9966</b>
Load Shedding	3822	3378	1651
<b>MSEDCL DEMAND (INCL. LS)</b>	<b>14055</b>	<b>14526</b>	<b>11617</b>
TPCL GENERATION	1595	1843	1292
REL GENERATION	529	525	529
<b>TPCL+REL DEMAND</b>	<b>2455</b>	<b>2521</b>	<b>1961</b>
<b>STATE DEMAND MET</b>	<b>12688</b>	<b>13669</b>	<b>11927</b>
<b>STATE DEMAND (INCL. LS)</b>	<b>16510</b>	<b>17047</b>	<b>13578</b>
Frequency (Hz)	49.14	49.12	49.22
MSEDCL's Max Demand-Supply Gap (excluding UI, D.A.Power & Unsch.Hyd.Gen)			5113 MW at 13.00 Hrs
MSEDCL's Dem.-Supply Gap for day (excluding UI, D.A.Power & Unsch.Hyd.Gen)			92.69 MUs

**FREQUENCY PARTICULARS**

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49Hz
50.01 Hz at 18.02 Hrs	48.77 Hz at 11.30 Hrs	49.23	14.69 % of Time

\* 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 13/Apr/2009

Generating unit	Generation				OLC (MW)	Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)			Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
<b>Koradi</b>						Stage 3	5.95	40.84	320	80	320
Unit 1	1.66	21.31	74	46	70		<b>34.16</b>	<b>234.65</b>			<b>1170</b>
Unit 2	1.75	10.67	79	69	70	<b>Hydro</b>					
Unit 3	1.73	21.71	78	61	70	KDPH	0.00	5.80	0	0	0
Unit 4	0.00	10.78	0	0	0	VTRNA	0.00	0.00	0	0	0
Unit 5	3.52	47.26	172	130	130	TILLARI	0.41	5.24	61	0	60
Unit 6	3.67	48.44	166	139	140	BHTGR/VEER	0.95	9.26	40	39	30
Unit 7	3.60	47.99	165	98	130	BHIRA T.R.	0.17	2.69	81	0	80
	<b>15.94</b>	<b>208.15</b>			<b>610</b>	RNGR+BHTSA	0.32	4.40	14	13	17
<b>Bhusawal</b>						BHANDARDRA	0.75	8.14	32	31	30
Unit 1	0.89	8.15	51	22	50	ELDARY	0.00	0.30	0	0	0
Unit 2	4.29	54.56	189	166	175	PAITHAN	0.06	0.49	10	0	0
Unit 3	4.37	55.28	192	168	175	GHATGHAR	0.12	4.76	67	0	0
	<b>9.55</b>	<b>117.99</b>			<b>400</b>		<b>2.79</b>	<b>41.07</b>			<b>217</b>
<b>Parli</b>						<b>PENCH (MS)</b>					
Unit 1	0.54	7.30	24	22	20	Pench (MS)	0.32	1.89	54	0	
Unit 2	0.60	7.71	26	23	20		<b>0.32</b>	<b>1.89</b>			
Unit 3	3.18	43.04	140	117	140	<b>Wind</b>					
Unit 4	3.54	45.02	156	142	140	MalharPeth	0.23	2.79			
Unit 5	3.25	45.31	147	114	140	Vankuswadi	0.54	6.36			
Unit 6	5.12	69.49	222	203	200	ATIT	0.12	1.14			
	<b>16.24</b>	<b>217.86</b>			<b>660</b>	Kale	0.16	1.98			
<b>Chandrapur</b>						Satara	0.27	2.72			
Unit 1	3.70	52.58	170	133	150	Shirala	0.22	2.44			
Unit 2	3.77	52.61	170	137	150	K Mahankal	0.29	1.00			
Unit 3	3.88	59.94	201	130	160	Supa	0.18	2.22			
Unit 4	4.34	59.39	205	135	150	Vita	0.79	8.80			
Unit 5	8.76	124.27	435	315	400	Dondaicha	1.04	11.55			
Unit 6	8.35	121.11	410	250	420	Sakri	0.23	2.48			
Unit 7	8.94	118.25	415	306	450	Nandurbar	0.08	1.46			
	<b>41.74</b>	<b>588.15</b>			<b>1880</b>	Khadakale	0.33	5.31			
<b>Paras</b>						Khaparale	0.13	1.54			
Unit 2	0.85	11.87	51	0	45		<b>4.62</b>	<b>51.78</b>			
Unit 3	5.07	52.79	243	128	230	<b>Dabhol</b>					
	<b>5.92</b>	<b>64.66</b>			<b>275</b>	RGPP L II	7.76	136.31	325	320	300
<b>Khaparkheda</b>						RGPP L III	0.00	0.00	0	0	
Unit 1	4.77	59.81	208	191	200		<b>7.76</b>	<b>136.31</b>			<b>300</b>
Unit 2	4.47	58.39	194	168	180	<b>Tata</b>					
Unit 3	0.00	45.90	0	0	0	Trombay 4	0.00	6.65	0	0	0
Unit 4	4.72	60.08	204	178	200	Trombay 5	11.91	151.82	505	430	500
	<b>13.97</b>	<b>224.19</b>			<b>580</b>	Trombay 6	10.98	147.74	510	250	500
<b>Nasik</b>						Trombay 7A	2.82	32.20	122	111	120
Unit 1	0.00	13.80	0	0	0	Trombay 7B	1.61	19.55	69	64	60
Unit 2	2.29	20.88	102	90	92	Trombay 8	5.90	46.05	253	207	250
Unit 3	4.68	58.42	207	167	198	TATA Hydro	5.46	51.16	466	0	447
Unit 4	4.52	57.81	196	180	180		<b>38.67</b>	<b>455.17</b>			<b>1877</b>
Unit 5	4.59	49.27	199	182	198	<b>REL</b>					
	<b>16.08</b>	<b>200.19</b>			<b>668</b>	1&2	12.67	164.66	531	523	500
<b>Uran</b>							<b>12.67</b>	<b>164.66</b>			<b>500</b>
All Units	15.14	186.65	656	601	620	<b>Cent Sect</b>					
	<b>15.14</b>	<b>186.65</b>			<b>620</b>	Share					3014
<b>Koyna</b>											<b>3014</b>
Stage 1-2	6.10	51.59	490	45	600	<b>MS PG CL</b>					
Stage 4	22.10	142.22	1116	0	250	Thermal	119.43	1621.18			5073
	<b>28.20</b>	<b>193.81</b>			<b>850</b>	Thml+Gas	134.57	1807.83			5693
<b>Koyna 12&amp;4 Total</b>						Hydro	36.94	275.72			1387
						Total	171.52	2083.55			7080
						<b>State Total</b>	<b>235.56</b>	<b>2893.36</b>			<b>12771</b>

# State Load Dispatch Center, Airoli (MSETCL)

Hourly Load Data As on 13/Apr/2009

TIME SR. NO.	MSPGCL GEN.			TOTAL	RGPPL	WIND	CS SHARE	CS RECPT	TPCL SCH.	TPCL NET EXCH.	MSEDCL DEMAND MET	# LOAD SHED.	MSEDCL DEMAND WITH LS	TPCL + REL DEMAND	STATE DEM. WITH LS	FREQ. (Hz)
	THM	HY	GAS													
1	4887	1490	634	7011	324	170	2993	2882	-333	-283	10104	1634	11738	2195	13933	49.17
2	4800	1329	637	6766	324	195	2852	2821	-191	-140	9966	1651	11617	1961	13578	49.22
3	4857	1410	637	6904	325	212	2711	2758	-49	1	10200	1621	11821	1781	13602	49.15
4	4921	1613	638	7172	324	177	2667	2786	-2	43	10502	1600	12102	1701	13803	49.18
5	4931	1744	642	7317	324	168	2669	2731	-2	42	10582	1841	12423	1673	14096	49.26
6	5012	1921	652	7585	324	135	2671	2727	-2	47	10818	2339	13157	1675	14832	49.45
7	5074	1069	656	6799	323	123	2710	2793	-0	48	10086	3489	13575	1802	15377	49.53
8	5248	375	653	6276	322	79	2886	2895	115	154	9726	3923	13649	1807	15456	49.39
9	5236	680	640	6556	322	59	2775	3046	-66	-21	9962	4098	14060	2083	16143	49.26
10	5095	1300	648	7043	323	119	3085	3079	-373	-331	10233	3822	14055	2455	16510	49.14
11	4940	1559	634	7133	322	113	3076	3158	-373	-332	10394	3285	13679	2670	16349	49.12
12	4838	1867	624	7329	320	89	3065	3413	-373	-338	10813	3528	14341	2776	17117	48.99
13	4877	2048	615	7540	322	57	3110	3387	-427	-382	10924	3721	14645	2821	17466	49.15
14	4721	1965	607	7293	324	55	3107	3311	-430	-402	10581	3886	14467	2776	17243	49.20
15	4831	1848	601	7280	321	86	3106	3132	-430	-391	10428	3690	14118	2791	16909	49.03
16	4818	1723	606	7147	324	146	3106	3282	-430	-389	10510	3656	14166	2793	16959	49.23
17	4797	1597	606	7000	324	146	3403	3463	-430	-390	10543	3836	14379	2761	17140	49.11
18	4846	1684	616	7146	324	145	3314	3455	-272	-232	10838	3502	14340	2623	16963	49.28
19	5050	1620	620	7290	324	195	3281	3409	-241	-188	11078	3310	14388	2496	16884	49.25
20	5122	1775	624	7521	324	303	3035	3045	-197	-153	11094	3378	14472	2521	16993	49.12
21	5174	1818	630	7622	324	398	3041	3102	-197	-153	11347	3117	14464	2448	16912	49.24
22	5166	1609	633	7408	324	463	3043	3067	-197	-148	11168	2851	14019	2328	16347	49.20
23	5142	1470	642	7254	324	457	2954	2970	-167	-118	10941	2512	13453	2295	15748	49.40
24	5035	1430	649	7114	324	526	2904	2919	-168	-116	10821	2147	12968	2286	15254	49.51
<b>MUs</b>	<b>119.42</b>	<b>36.94</b>	<b>15.14</b>	<b>171.51</b>	<b>7.76</b>	<b>4.62</b>	<b>71.56</b>	<b>73.63</b>	<b>-5.23</b>	<b>-4.17</b>	<b>253.66</b>	<b>72.44</b>	<b>326.10</b>	<b>55.52</b>	<b>381.61</b>	<b>49.23</b>

NOTE : ALL VALUES IN MW

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

**State Load Dispatch Center, Airoli (MSETCL)**  
**Details of Generating Unit Outages/Trippings for 13/Apr/2009**

Position as on 6.30 Hrs of 14/Apr/2009

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
<b>PLANNED OUTAGE</b>							
Cent_Sect KARPR1	220	01/07/2008	00:10		Continued.	COH(En-Mass Coolant Clanel Replacement)	31/03/2010
Cent_Sect NTPC (V-1)	210	08/04/2009	21.13		Continued.	Annual Overhaul	28/04/2009
<b>FORCED OUTAGE</b>							
Dabhol 2A	230	19/01/2008	02.40		Continued.	Tripped	01/07/2009
Uran Unit 4	60	01/04/2008	00:00		Continued.	Gas Restriction	
Uran Unit 2	60	04/10/2008	19.00		Continued.	Gas Restriction	
Uran Unit 3	60	23/10/2008	06.40		Continued.	Gas Restriction	
Dabhol 3A	230	08/11/2008	13.45		Continued.	Exhaust temp.& vibn.high	01/06/2009
Dabhol 1B	230	22/01/2009	12.05		Continued.	BHMS Installation work	
Dabhol 1X	290	16/03/2009	17.01		Continued.	No insurance.	
Dabhol 1A	230	16/03/2009	17.05		Continued.	No insurance.	
Cent_Sect sipat-5	500	03/04/2009	23.46		Continued.	Bearing Vibration Problem.	18/04/2009
Dabhol 2X	290	05/04/2009	22:26		Continued.	Combulsion Inspection.	20/04/2009
Dabhol 2B	230	06/04/2009	00:25		Continued.	Combulsion Inspection.	20/04/2009
Koradi Unit 4	115	07/04/2009	10.45		Continued.	CHP Belt Problem.	14/04/2009
Tata Trombay 4	150	09/04/2009	02.10		Continued.	W/dn	
Khaparkheda Unit 3	210	11/04/2009	05.39		Continued.	Boiler Tube Leakage	14/04/2009
Nasik Unit 1	125	11/04/2009	17:05		Continued.	Boiler Tube Leakage	14/04/2009
Cent_Sect NTPC(V-7)	500	12/04/2009	04:22		Continued.	Boiler Tube Leakage	15/04/2009
Koyna ST-IV 1	250	13/04/2009	09:25	13/04/2009	12:00	Spherical Valve Problem.	
Paras Unit 2	55	13/04/2009	17:19	14/04/2009	01:33	Reverse power protection.	
Koyna ST-IV 1	250	14/04/2009	01:54		Continued.	Protection Supply failure.	15/04/2009
Koyna ST-IV 2	250	14/04/2009	04:34	14/04/2009	05:07	Turbine Prot.	

**State Load Dispatch Center,Airoli (MSETCL)**  
**Details of Line outages/Trippings for 13/Apr/2009**

Position as on 6.30 Hrs of 14/Apr/2009

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
<b>InterState</b>					
<b>Voltage Level : 400KV</b>			<b>Outage Type HAND TRIPPED</b>		
Dhule-Sar'Sarovar II	12/04/2009	02.36		Continued.	H/T FOR O/V
<b>Voltage Level : 400KV</b>			<b>Outage Type TRIPPED</b>		
Kolhapur-Mapusa Ckt I	13/04/2009	16:39	13/04/2009	20:58	Tripped ,Dist.Prot.
<b>IntraState</b>					
<b>Voltage Level : 400KV</b>			<b>Outage Type PLANNED OUTAGE</b>		
Single Ph.105 MVA Spare ICT-II at Karad	02/03/2009	10:45		Continued.	Repl. of existing single phase ICT of 400KV ICT-I, B Ph. by Spare ICT-II
400/220 KV,105 MVA Spare ICT-I at Karad S/S.	24/03/2009	12.56	13/04/2009	18:13	Attending oil leakage from neutral bushing.
400 KV TBC at Bhusawal	05/04/2009	22.30		Continued.	Y Pole Oil Leakage.
<b>Voltage Level : 220KV</b>			<b>Outage Type PLANNED OUTAGE</b>		
Pedambe - Pophali	13/04/2009	08:55	13/04/2009	13:45	Bay Maintenance work.
K'gaon-Dasturi	13/04/2009	09:10	13/04/2009	13:26	L.A.replacement work
Wardha-K'Kheda	13/04/2009	10:36		Continued.	Relay Retrofitting Work.
<b>Voltage Level : 132KV</b>			<b>Outage Type PLANNED OUTAGE</b>		
Madgi-Kawlewada-II	10/02/2009	16.20		Continued.	C.B. replacement work.
<b>Voltage Level : 400KV</b>			<b>Outage Type TRIPPED</b>		
Bus coupler at Aurangabad	13/04/2009	13.55	13/04/2009	15.01	Bus bar protection operated.
Bhusawal- Aurangabad	13/04/2009	13:55	13/04/2009	15:13	29D Isolator Flashover at Aurangabad end.
400/220KV, 315MVA ICT-II at Aurangabad.	13/04/2009	13:55	13/04/2009	14:56	Bus bar protection operated.
Karad-Kolhapur CKT I	13/04/2009	16:39	13/04/2009	17:19	Tripped ,Dist.Prot.
<b>Voltage Level : 220KV</b>			<b>Outage Type TRIPPED</b>		
Aurangabad-Jalna-I	13/04/2009	13:55	13/04/2009	14:57	Tripped on load triming scheme.
Aurangabad-Jalna-II	13/04/2009	13:55	13/04/2009	14:57	Tripped on load triming scheme.
220/33KV 50 MVA T/F at A'bad	13/04/2009	13:55	13/04/2009	14:16	Tripped on load triming scheme.
Lonikand-Khadki	13/04/2009	14:17	13/04/2009	14:44	Tripped ,Dist.Prot.
Dondaicha - Jamde - I	13/04/2009	14:40	13/04/2009	15:25	Tripped on backup protection
Dondaicha - Jamde - II.	13/04/2009	14:40	13/04/2009	15:05	Tripped on backup protection
Lonikand-Khadki	13/04/2009	15:20	13/04/2009	18:06	Tripped ,Dist.Prot.

# State Load Dispatch Center, Airoli (MSETCL)

## Details of On Line Capacity for 14/Apr/2009

Generating unit	Derated Capacity (MW)	OLC (MW)	Generating unit	Derated Capacity (MW)	OLC (MW)
<b>Koradi</b>			KDPH	40	
Unit 1	105		VTRNA	60	
Unit 2	105		TILLARI	60	
Unit 3	105		BHTGR/VEER	21	
Unit 4	105		BHIRA T.R.	80	
Unit 5	200		RNGR+BHTSA	20	
Unit 6	210		BHANDARDRA	45	
Unit 7	210		ELDARY	23	
	<b>1040</b>		PAITHAN	12	
<b>Bhusawal</b>			GHATGHAR	250	
Unit 1	58			<b>611</b>	
Unit 2	210		<b>PENCH (MS)</b>		
Unit 3	210		Pench (MS)	53	
	<b>478</b>			<b>53</b>	
<b>Parli</b>			<b>Wind</b>		
Unit 1	30		MalharPeth	0	
Unit 2	30		Vankuswadi	0	
Unit 3	210		ATIT	0	
Unit 4	210		Kale	0	
Unit 5	210		Satara	0	
Unit 6	250		Shirala	0	
	<b>940</b>		K Mahankal	0	
<b>Chandrapur</b>			Supa	0	
Unit 1	210		Vita	0	
Unit 2	210		Dondaicha	0	
Unit 3	210		Sakri	0	
Unit 4	210		Nandurbar	0	
Unit 5	500		Khadakale	0	
Unit 6	500		Khaparale	0	
Unit 7	500			<b>0</b>	
	<b>2340</b>		<b>Dabhol</b>		
<b>Paras</b>			RGPPL II	740	
Unit 2	55		RGPPL III	740	
Unit 3	250			<b>1480</b>	
	<b>305</b>		<b>Tata</b>		
<b>Khaparkheda</b>			Trombay 4	150	
Unit 1	210		Trombay 5	500	
Unit 2	210		Trombay 6	500	
Unit 3	210		Trombay 7A	120	
Unit 4	210		Trombay 7B	60	
	<b>840</b>		Trombay 8	250	
<b>Nasik</b>			TATA Hydro	444	
Unit 1	120			<b>2024</b>	
Unit 2	120		<b>REL</b>		
Unit 3	210		1&2	500	
Unit 4	210			<b>500</b>	
Unit 5	210		<b>Cent Sect</b>		
	<b>870</b>		Share	3143	
<b>Uran</b>				<b>3143</b>	
All Units	852				
	<b>852</b>				
<b>Koyna</b>					
Stage 1-2	600				
Stage 4	1000				
Stage 3	320				
	<b>1920</b>				
<b>Hydro</b>					