



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

State Load Dispatch Center, Airoli

Daily system Report

for

28/Apr/2013

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 28/Apr/2013 SUNDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	107.065	3100.001	1) Gujrat	9.480	339.556
2) Hydro	8.103	281.594	2) Madhya Pradesh	21.936	572.311
3) Gas	14.199	359.493	3) Chattisgarh	9.600	233.340
Total MSGENCO	129.367	3741.088	4) Maharashtra	61.451	1799.488
B) 1) JSW JAIGAD	24.102	684.707	5) Goa	-5.210	-157.303
2) WPCL	7.694	206.232	6) TAPS 1&2 Injection	3.790	83.571
3) ADANI	14.540	303.610	7) RGPPL Injection	29.272	612.069
4) Other CPP / IPP	7.258	296.299	8) Pench (Excess)	-0.327	-6.460
5) Wind Generation	10.794	283.302	# Total Cent. Sector	129.992	3476.572
6) PENCH (MS)	0.327	6.355	F) Other Exchanges		
C) TPCL & REL			1) With TPCL (Excess)	-13.361	-384.350
1) TPCL Thermal	25.554	731.903	G) Bilateral Power *		
2) TPCL Hydro	0.551	102.019	1) MSEDCL Bilateral	43.181	1195.756
TOTAL TPCL	26.105	833.922	Include PX	2.796	188.446
3) REL Thermal	12.598	351.095	2) MUMBAI Bilateral	13.992	416.146
D) STATE			Include PX	4.950	103.089
1) Thermal (A1+C1+C3)	145.217	4182.999	3) MUMBAI Schedule	13.992	416.146
2) Hydro (A2+B5+C2)	8.981	389.968	H) ENERGY CATERED (MUs)		
3) Gas (A3)	14.199	359.493	1) MSEDCL	310.713	8613.815
4) Wind (B4)	10.794	283.302	2) TPCL	32.963	1025.871
5) CPP (B1+B2+B3)	53.594	1201.778	3) REL	19.101	543.414
TOTAL STATE	232.785	6417.540	TOTAL STATE	362.777	10183.100

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 17 Hrs	C. Night Minimum at 5 Hrs
MSGENCO Thermal	4211	4509	4222
MSGENCO Hydro	672	252	334
MSGENCO Gas	599	588	616
MSGENCO Total Generation	5482	5349	5172
Central Sector Receipt	6026	5647	4913
WIND	250	502	551
CPP / IPP	2348	2334	2072
Exchange with Mumbai	-576	-532	-305
MSEDCL DEMAND MET	13553	13300	12423
Load Shedding	704	467	239
MSEDCL DEMAND	14257	13767	12662
TPCL GENERATION	1130	1140	1094
R-INFRA GENERATION	525	524	525
TPCL+R-INFRA DEMAND	2231	2196	1924
STATE DEMAND MET	15784	15496	14347
STATE DEMAND	16488	15963	14586
Frequency (Hz)	49.95	50.08	49.92

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.41 Hz at 17.31 Hrs	49.58 Hz at 01.13 Hrs	50.02	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 28/Apr/2013

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	3.27	7.54	161	120	135
Unit 6	1.27	101.95	166	0	0
Unit 7	4.18	95.66	190	155	170
Total	8.73	205.15			305
Bhusawal					
Unit 2	0.04	95.44	30	0	0
Unit 3	3.69	106.13	165	140	150
Unit 4	7.60	216.09	435	185	323
Unit 5	0.00	65.79	0	0	0
Total	11.32	483.45			473
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	0.00	0.00	0	0	0
Unit 5	0.00	0.00	0	0	0
Unit 6	0.00	0.00	0	0	0
Unit 7	0.00	0.00	0	0	0
Total	0.00	0.00			0
Chandrapur					
Unit 1	0.94	69.74	146	0	0
Unit 2	3.20	88.44	143	122	150
Unit 3	4.75	121.62	208	162	200
Unit 4	4.10	122.91	180	153	180
Unit 5	10.42	215.82	460	360	450
Unit 6	10.30	274.70	450	395	450
Unit 7	8.33	213.16	368	323	400
Total	42.05	1106.39			1830
Paras					
Unit 3	2.03	146.02	251	0	0
Unit 4	5.04	150.16	235	182	250
Total	7.07	296.18			250
Khaparkheda					
Unit 1	3.20	99.62	170	85	100
Unit 2	4.05	97.65	185	150	170
Unit 3	4.40	108.70	195	163	180
Unit 4	4.21	115.12	196	154	180
Unit 5	9.16	253.13	467	305	300
Total	25.01	674.23			930
Nasik					
Unit 3	4.37	124.96	195	175	195
Unit 4	4.17	88.69	178	170	175
Unit 5	4.36	120.95	194	172	195
Total	12.89	334.60			565
Uran					
All Units	14.20	359.49	620	446	600
Total	14.20	359.49			600
PENCH (MS)					
Pench (MS)	0.33	6.36	24	0	
Total	0.33	6.36			
Koyna					
Stage 1-2	2.84	77.11	350	40	530
Stage 4	1.02	57.32	260	0	250
Stage 3	0.94	29.84	80	0	240
Kovna 12&4 Total	3.85	134.43			780

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	4.79	164.27			1020
Hydro					
KDPH	0.57	21.90	36	0	36
VTRNA	0.95	26.62	61	0	60
TILLARI	0.35	9.82	60	0	60
BHTGR/VEER	0.04	1.30	2	1	2
BHIRA T.R.	0.08	5.25	31	0	80
RNGR+BHTSA	0.29	8.49	12	11	12
BHANDARDRA	0.50	2.35	43	9	0
ELDARY	0.00	0.00	0	0	0
SMLHY PTN	0.53	23.82	23	22	0
GHATGHAR	0.00	17.78	0	0	0
Total	3.31	117.33			250
Wind					
MalharPeth	0.40	12.79			
Vankuswadi	0.64	18.43			
ATIT	0.10	5.46			
Kale	0.25	7.34			
Satara	0.22	25.78			
Shirala	0.23	9.12			
K Mahankal	1.39	16.91			
Supa	0.24	3.72			
Vita	0.80	30.00			
Dondaicha	4.25	105.37			
Sakri	0.60	13.63			
Nandurbar	0.41	10.97			
Khandke	0.70	12.79			
Khaparale	0.57	10.98			
Total	10.79	283.30			
CPP					
JSW JAIGAD	24.10	684.71	1115	822	1005
WARDHA	7.69	206.23	324	314	320
Adani	14.54	303.61	610	590	617
Other CPPs	7.26	296.30			
Total	53.59	1490.85			1942
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	11.22	311.60	500	292	500
Trombay 6	3.82	136.44	202	147	500
Trombay 7A	2.93	75.14	125	119	120
Trombay 7B	1.61	40.97	69	65	60
Trombay 8	5.98	167.75	253	204	250
TATA Hydro	0.55	102.02	122	0	447
Total	26.10	833.92			1877
REL					
1&2	12.60	351.10	527	523	500
Total	12.60	351.10			500
Cent Sect					
Share					5415
Total					5415

MS PG CL	Thermal	107.06	3100.00			4353
	Thml+Gas	121.26	3459.49			4953
	Hydro	8.10	281.59			1270
	Total	129.37	3741.09			6223
State Total		232.78	6417.54			15957

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 28/Apr/2013

TIME SR. NO.	MSPGCL GEN.			TOTAL	WIND	CPP / IPP	CS SHARE	CS RECPT	Mum.S CH.	Mum. NET EXCH.	MSEDCL DEMAND MET	LOAD SHEDDI NG	MSEDCL DEMAND WITH LS	TPCL + R -INFRA DEMAND	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS													
1	4343	550	608	5501	690	2341	5159	5418	-764	-772	13198	63	13261	2410	15671	49.86
2	4324	583	608	5515	572	2340	5062	5153	-673	-608	12992	175	13167	2229	15396	49.79
3	4237	281	608	5126	679	2342	4954	5167	-565	-470	12864	202	13066	2084	15150	49.86
4	4184	314	611	5109	515	2221	4636	4985	-499	-360	12490	209	12699	1980	14679	49.95
5	4222	334	616	5172	551	2072	4623	4913	-457	-305	12423	239	12662	1924	14586	49.92
6	4142	583	617	5342	554	2073	4607	4966	-424	-314	12641	369	13010	1941	14951	49.99
7	4126	211	617	4954	483	2059	4786	4901	-385	-247	12160	803	12963	1869	14832	50.11
8	4165	135	620	4920	179	2044	4803	5318	-351	-224	12237	810	13047	1842	14889	50.10
9	4258	184	600	5042	319	2060	4901	5356	-357	-295	12482	642	13124	1914	15038	50.17
10	4431	224	600	5255	298	2206	5266	5927	-464	-409	13277	527	13804	2019	15823	50.06
11	4500	396	592	5488	245	2318	5421	6208	-605	-566	13703	585	14288	2175	16463	50.04
12	4211	672	599	5482	250	2348	5503	6026	-670	-576	13553	704	14257	2231	16488	49.95
13	4260	429	594	5283	221	2348	5383	6036	-701	-606	13292	804	14096	2259	16355	50.05
14	4358	568	595	5521	210	2329	5236	5707	-702	-558	13219	690	13909	2227	16136	50.03
15	4311	388	600	5299	309	2348	5537	5935	-672	-588	13308	549	13857	2245	16102	50.01
16	4291	421	583	5295	383	2322	5582	6293	-657	-590	13703	501	14204	2241	16445	50.08
17	4509	252	588	5349	502	2334	5340	5647	-592	-532	13300	467	13767	2196	15963	50.08
18	4726	168	597	5491	602	2329	4732	4479	-512	-622	12279	446	12725	2153	14878	50.23
19	4901	179	603	5683	584	2184	4683	4418	-518	-763	12128	157	12285	2120	14405	50.15
20	4885	261	595	5741	516	2190	5027	5332	-656	-790	13012	231	13243	2314	15557	50.05
21	4903	282	573	5758	593	2187	5211	5296	-715	-812	13046	160	13206	2399	15605	50.08
22	4925	207	567	5699	541	2199	5135	5327	-603	-772	13017	88	13105	2403	15508	50.02
23	4912	203	562	5677	460	2206	5310	5554	-697	-782	13138	60	13198	2426	15624	49.92
24	4941	278	446	5665	538	2194	5280	5632	-752	-800	13253	49	13302	2463	15765	49.93
MUs	107.06	8.10	14.20	129.37	10.79	53.59	122.18	129.99	-13.99	-13.36	310.72	9.53	320.24	52.06	372.31	50.02

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 28/Apr/2013

Position as on 6.30 Hrs of 29/Apr/2013

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE							
Parli Unit 4	210	28/11/2012	02.37		Continued.	water shortage.	
Koyna Unit 12	80	29/11/2012	08.30		Continued.	A/OH.	
Cent_Sect Tarapur 2	160	31/12/2012	17.05		Continued.	Refuelling work	
Parli Unit 6	250	25/01/2013	19.49		Continued.	Water Shortage/AOH from 06.03.2013	
Parli Unit 3	210	13/02/2013	23.50		Continued.	Water Shortage	
Parli Unit 5	210	14/02/2013	22.45		Continued.	Water Shortage	
Parli Unit 7	250	17/02/2013	01.00		Continued.	Water Shortage.	
Cent_Sect TARAPUR-3	540	30/03/2013	22.30		Continued.	AOH.	
Cent_Sect NTPC(K-7)	500	02/04/2013	05.06		Continued.	AOH.	
Koyna Unit 2	75	15/04/2013	07.10		Continued.	Realignment work.	30/04/2013
Cent_Sect NTPC(V-4)	210	23/04/2013	00.12		Continued.	AOH.	
FORCED OUTAGE							
Dabhol 2B	230	03/01/2013	13.29		Continued.	Gas shortage.	
Dabhol 2A	230	06/02/2013	21.32		Continued.	Gas Shortage	
Dabhol 2X	290	06/02/2013	21.32		Continued.	Gas Shortage	
Hydro GhatgharU2	125	16/04/2013	10.30		Continued.	Water seepage from turbine spiral casing foundation.	
Hydro GhatgharU1	125	16/04/2013	20.00		Continued.	While working on U-2,Water leakage observed in penstock.	
CPP WPCL U-1	135	20/04/2013	21.59		Continued.	F D Fan Problem.	
CPP Adani U-2	660	22/04/2013	13.47		Continued.	ID fan problem.	
Cent_Sect TARAPUR-4	540	23/04/2013	19.19		Continued.	Process Problem.	
Bhusawal Unit 5	500	24/04/2013	10.30		Continued.	Bunkering problem.	
Bhusawal Unit 2	210	26/04/2013	01.12	28/04/2013	22.43	ID fan problem.	
Paras Unit 3	250	26/04/2013	12.41	28/04/2013	08.14	Boiler Tube Leakage.	
Chandrapur Unit 1	210	26/04/2013	19.24	28/04/2013	14.12	Boiler Tube Temp.Very Low.	
Cent_Sect NTPC (K-2)	210	27/04/2013	03.07		Continued.	Boiler Tube Leakage.	
Cent_Sect Sipat-4	500	27/04/2013	21.21		Continued.	Coal Shortage.	
Koradi Unit 6	210	27/04/2013	21.21	28/04/2013	15.27	I D Fan Problem.	
Paras Unit 3	250	28/04/2013	11.05	28/04/2013	16.36	Vaccum Pressure High.	
Uran Unit 7	108	28/04/2013	22.54		Continued.	Boiler Duct Renovation.	
CPP WPCL U-2	135	29/04/2013	00.28		Continued.	Bottom Ash Conveying Problem.	
Chandrapur Unit 2	210	29/04/2013	06.55		Continued.	Boiler Tube Leakage.	02/05/2013

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 28/Apr/2013

Position as on 6.30 Hrs of 29/Apr/2013

Name of Line	Tripped Date	Tripped Time	Synchronised Date	Synchronised Time	Reason of Outage
InterState					
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Tarapur - Boiser	13/04/2013	10.33		Continued.	Mumbai Stengthening Work & Now Line Tarapur-Ghodbunder.(one month)
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Seoni-Wardha-II 765KV.	02/04/2013	18.01		Continued.	Over Voltage.
Kolhapur-Solapur(PGCIL)-I	24/04/2013	16.24		Continued.	Over Voltage.
Kolhapur - Mapusa - I	27/04/2013	18.42		Continued.	Over Voltage.
Voltage Level : 400KV			Outage Type TRIPPED		
Chandrapur - Bhadravati - IV	23/04/2013	17.51		Continued.	Over Voltage.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
Tie Bay @ Lamboti	27/04/2013	10.56	28/04/2013	06.17	Attending Auxilary Contact Problem.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Ghodbandar - Bhoisor (MSETCL)	13/04/2013	10.09		Continued.	Mumbai Strengthening Work.
Mudshingi - Peth	27/04/2013	11.10		Continued.	Relay Retrofitting.
Tarapur - Ghodbundar	28/04/2013	08.21		Continued.	A.M.Work.
Tie -2 @ Trombay	28/04/2013	09.14	28/04/2013	16.34	Bus CVT Testing @ Tata.
Lonikand-Theur - I	29/04/2013	00.23	29/04/2013	04.35	To Avail Bus Outage @ Theur.
Lonikand -Theur - II	29/04/2013	00.25	29/04/2013	04.37	To Avail Bus Outage @ Theur.
Voltage Level : 132KV			Outage Type PLANNED OUTAGE		
Amalner - Dharangaon	27/04/2013	11.05		Continued.	Reorientation Work for New 132 KV Nardane Line.
Voltage Level : 220KV			Outage Type FORCED OUTAGE		
Main Bus at Theur	29/04/2013	00.25	29/04/2013	04.35	To Attend Hot Spot Between R Ph.Isolator & 220KV P.T.Bay of Main
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
400/220 KV 105 MVA Spare ICT Unit @ Bhusawal - II	02/02/2013	10.17		Continued.	Low Oil Pressure Alarm Received.
400/220KV 500MVA ICT-II at Warora	07/02/2013	17.57		Continued.	Handtripped
Bhusawal - Deepnagar - I	05/04/2013	09.26		Continued.	Over Voltage.
Bhusawal- Aurangabad	21/04/2013	09.45		Continued.	To Control Akola-Wardha-II.
Karad - Kolhapur - II	27/04/2013	17.45	28/04/2013	08.02	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		
Chikhali - Jalna - II	12/04/2013	17.57		Continued.	To Control Over Loading of 220KV Paras-Chikhali.
Voltage Level : 400KV			Outage Type TRIPPED		
400/11.5KV 90 MVA STN T/F III @ 400KV C'PUR	25/09/2012	15.38		Continued.	Differential protection operated Declared Faulty by Genco.
Warora- Tirora -II	25/04/2013	16.53		Continued.	Distance protection.
400/11.5 KV 90 MVA Station T/F -III @ Chandrapur	26/04/2013	15.38		Continued.	Diffrential Protection Operated OLTC Buchholz Protection Operated Bucholz Alarm,MTR Operated.

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 28/Apr/2013

Position as on 6.30 Hrs of 29/Apr/2013

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Newkoyna - Jaigad - I	28/04/2013	01.29	28/04/2013	19.35	Distance Protection,R-E,Z-II.
New Koyna - Jaigad - II	28/04/2013	02.50	28/04/2013	09.18	Distance Protection,B-E,Z-II.
Karad-Jaigad I	28/04/2013	06.49	28/04/2013	06.56	Distance Protection.
Voltage Level : 220KV			Outage Type TRIPPED		
Usmanabad-Paranda	25/04/2013	16.36		Continued.	Distance protection.
Paranda-Barshi	25/04/2013	17.39		Continued.	Distance protection operated zone 1.
Parly - Girwali - II	27/04/2013	21.49	28/04/2013	08.52	Y Ph. CT Burst @ Parli - I.
220/132 KV 200 MVA ICT @ Malinagar	27/04/2013	23.10		Continued.	Internal Fault.
Nivali-Pawas	28/04/2013	00.28	28/04/2013	10.27	Distance Protection,R-E,Declared Faulty.
Kharepatan-Pawas	28/04/2013	02.44	28/04/2013	03.06	Distance Protection,Z-II,B-E.
Kharepatan-Pawas	28/04/2013	03.46		Continued.	Distance Protection Z-II Y-E,Declared Faulty.
Pedambe - Oni	28/04/2013	04.00	28/04/2013	04.08	Backup Protection Operated.
KDPH-Wankuswadi	28/04/2013	04.55	28/04/2013	05.25	Distance Protection.
Pophali - KDPH	28/04/2013	04.55	28/04/2013	05.34	Distance Protection.
220/132KV 100MVA ICT II at Paranda	28/04/2013	05.10	28/04/2013	05.41	High Temp.
Voltage Level : 132KV			Outage Type TRIPPED		
Chikhli - Deulgaon-Mahee	28/04/2013	12.10	28/04/2013	19.40	Backup Protection Operated.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 29/Apr/2013

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	130
Unit 6	210	170
Unit 7	210	170
	620	470
Bhusawal		
Unit 2	210	150
Unit 3	210	150
Unit 4	500	349
Unit 5	500	
	1420	649
Parli		
Unit 3	210	0
Unit 4	210	0
Unit 5	210	0
Unit 6	250	0
Unit 7	250	0
	1130	0
Chandrapur		
Unit 1	210	150
Unit 2	210	130
Unit 3	210	200
Unit 4	210	180
Unit 5	500	450
Unit 6	500	440
Unit 7	500	400
	2340	1950
Paras		
Unit 3	250	210
Unit 4	250	220
	500	430
Khaparkheda		
Unit 1	210	170
Unit 2	210	160
Unit 3	210	190
Unit 4	210	190
Unit 5	500	450
	1340	1160
Nasik		
Unit 3	210	195
Unit 4	210	175
Unit 5	210	195
	630	565
Uran		
All Units	852	450
	852	450
PENCH (MS)		
Pench (MS)	53	
	53	
Koyna		
Stage 1-2	600	530
Stage 4	1000	250
Stage 3	320	240
	1920	1020
Hydro		
KDPH	40	36
VTRNA	60	60

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	60
BHTGR/VEER	21	2
BHIRA T.R.	80	40
RNGR+BHTSA	20	15
BHANDARDRA	45	40
ELDARY	23	0
SMLHY PTN	12	0
GHATGHAR	250	0
	611	253
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	1005
WARDHA	405	320
Adani	1320	617
Other CPPs	300	
	3225	1942
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	6104
	3455	6104