



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

State Load Dispatch Center, Airoli

Daily system Report

for

29/Mar/2014

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 29/Mar/2014 SATURDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	130.183	3622.828	1) Gujrat	5.995	18.590
2) Hydro	24.226	411.488	2) Madhya Pradesh	25.446	598.719
3) Gas	6.632	191.588	3) Chattisgarh	9.890	264.950
Total MSGENCO	161.041	4225.904	4) Maharashtra Net	91.309	2247.860
B) 1) JSW JAIGAD	10.690	405.882	(Incl. 765kV Solapur-Raichur)	-2.552	-42.503
2) WPCL	5.216	127.265	5) Goa	-6.070	-174.643
3) ADANI	38.000	951.928	6) TAPS 1&2 Injection	7.486	201.214
4) Other CPP / IPP	18.102	493.696	7) RGPPL Injection	0.000	0.000
5) Wind Generation	6.906	168.777	8) Pench (Excess)	-0.320	-6.716
6) PENCH (MS)	0.320	6.716	# Total Cent. Sector	133.736	3149.974
7) SOLAR	1.176	31.208	F) Other Exchanges		
C) 1) TPCL Thermal	13.801	419.054	1) With TPCL (Excess)	-25.407	-672.324
2) TPCL Hydro	5.301	108.734	G) Bilateral Power *		
TOTAL TPCL	19.102	527.788	1) MSEDCL Bilateral	22.123	397.146
3) REL Thermal	12.049	340.274	Include PX	0.000	-109.624
D) STATE			2) MUMBAI Bilateral	21.998	570.303
1) Thermal (A1+C1+C3)	156.033	4382.156	Include PX	9.295	190.728
2) Hydro (A2+B6+C2)	29.847	526.938	3) MUMBAI Schedule	21.998	570.406
3) Gas (A3)	6.632	191.588	H) ENERGY CATERED (MUs)		
4) Wind (B5)	6.906	168.777	1) MSEDCL	349.780	8889.026
5) CPP/IPP (B1+B2+B3+B4)	72.008	1064.843	2) TPCL	35.924	987.155
6) SOLAR (B7)	1.176	31.208	3) REL	20.634	553.270
TOTAL STATE	272.602	6365.510	TOTAL STATE	406.338	10429.451

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 13 Hrs	B. Evening Peak at 17 Hrs	C. Night Minimum at 5 Hrs
MSGENCO Thermal	5777	5036	5293
MSGENCO Hydro	1855	2142	332
MSGENCO Gas	255	258	290
MSGENCO Total Generation	7887	7436	5915
Central Sector Receipt	6130	5983	5173
WIND	58	207	414
CPP / IPP	2848	3008	3004
SOLAR	166	73	0
Exchange with Mumbai	-1329	-1173	-725
MSEDCL DEMAND MET	15760	15534	13781
Load Shedding	943	916	210
MSEDCL DEMAND	16703	16450	13991
TPCL GENERATION	973	1044	502
R-INFRA GENERATION	521	520	467
TPCL+R-INFRA DEMAND	2823	2737	1694
STATE DEMAND MET	18583	18271	15475
STATE DEMAND	19526	19187	15685
Frequency (Hz)	50.07	50.03	49.92

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.29 Hz at 17.55 Hrs	49.61 Hz at 23.58 Hrs	49.96	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 29/Mar/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	3.49	95.82	167	122	145
Unit 7	3.78	94.64	180	141	155
Total	7.26	190.46			300
Bhusawal					
Unit 2	1.61	66.55	140	0	0
Unit 3	2.66	81.37	125	0	120
Unit 4	7.89	216.48	460	265	430
Unit 5	6.92	236.20	325	220	372
Total	19.08	600.60			922
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	3.65	87.93	175	143	150
Unit 5	0.00	62.34	0	0	0
Unit 6	4.54	118.37	250	174	180
Unit 7	4.56	133.14	250	157	180
Total	12.75	401.78			510
Chandrapur					
Unit 1	3.50	93.70	150	140	150
Unit 2	4.02	100.17	172	163	165
Unit 3	4.28	114.53	186	166	190
Unit 4	4.80	131.96	211	168	210
Unit 5	10.56	262.44	460	400	450
Unit 6	10.15	241.85	445	385	450
Unit 7	8.46	189.10	401	267	350
Total	45.77	1133.75			1965
Paras					
Unit 3	4.63	124.13	212	174	200
Unit 4	2.63	144.44	205	0	200
Total	7.26	268.57			400
Khaparkheda					
Unit 1	3.88	108.07	180	122	180
Unit 2	3.61	103.07	170	120	180
Unit 3	3.92	115.83	191	155	185
Unit 4	4.35	76.04	203	146	210
Unit 5	9.11	290.18	495	0	500
Total	24.86	693.19			1255
Nasik					
Unit 3	4.28	106.32	185	170	190
Unit 4	4.52	116.79	196	179	190
Unit 5	4.40	111.37	190	170	190
Total	13.20	334.48			570
Uran					
All Units	6.63	191.59	322	248	300
Total	6.63	191.59			300
PENCH (MS)					
Pench (MS)	0.32	6.72	37	0	
Total	0.32	6.72			
Koyna					
Stage 1-2	3.86	95.00	485	35	600
Stage 4	8.74	131.08	1115	0	250
Stage 3	2.90	49.47	320	0	320
Kovna 12&4 Total	12.59	226.08			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	15.50	275.54			1170
Hydro					
KDPH	0.83	15.55	35	34	18
VTRNA	1.08	14.69	61	0	61
TILLARI	0.38	11.40	63	0	60
BHTGR/VEER	0.08	0.64	4	3	0
BHIRA T.R.	0.34	5.57	40	0	40
RNGR+BHTSA	0.32	9.41	14	13	14
BHANDARDRA	2.96	11.44	124	123	0
ELDARY	0.36	3.54	16	13	15
SMLHY PTN	1.04	26.12	44	43	3
GHATGHAR	1.35	37.58	250	0	0
Total	8.73	135.94			211
Wind					
MalharPeth	0.17	6.15			
Vankuswadi	0.29	10.74			
ATIT	0.03	2.19			
Kale	0.15	3.03			
Satara	1.38	39.73			
Shirala	0.21	3.91			
K Mahankal	0.01	1.40			
Supa	0.20	3.44			
Vita	0.84	21.67			
Dondaicha	2.55	49.96			
Sakri	0.35	5.98			
Nandurbar	0.23	4.91			
Khandke	0.22	7.83			
Khaparale	0.27	7.82			
Total	6.91	168.78			
CPP					
JSW JAIGAD	10.69	405.88	562	410	505
WARDHA	5.22	127.26	221	213	220
Adani	38.00	951.93	1677	1415	1234
Other CPPs	18.10	493.70			245
Total	72.01	1978.77			2204
SOLAR					
Total	1.18	31.21			
Total	1.18	31.21			
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	9.81	294.03	437	319	500
Trombay 6	0.00	0.00	0	0	0
Trombay 7A	2.48	78.92	125	76	120
Trombay 7B	1.51	46.10	70	55	60
Trombay 8	0.00	0.00	0	0	0
TATA Hydro	5.30	108.73	471	0	447
Total	19.10	527.79			1127
REL					
1&2	12.05	340.27	524	393	500
Total	12.05	340.27			500
Cent Sect					
Share					5931
Total					5931
MS PG CL	Thermal	130.18	3622.83		5922
	Thml+Gas	136.82	3814.42		6222
	Hydro	24.23	411.49		1381
	Total	161.04	4225.90		7603
State Total	272.60	6365.51			17365

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 29/Mar/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	5354	707	296	6357	249	2967	0	5453	5795	-928	-1043	14325	68	14393	2104	16497	49.92
2	5171	702	296	6169	370	2973	0	5342	5485	-762	-1047	13950	189	14139	1910	16049	49.92
3	5169	401	295	5865	480	3025	0	5383	5372	-669	-904	13838	198	14036	1785	15821	49.95
4	5158	332	283	5773	418	3046	0	5374	5480	-660	-832	13885	206	14091	1725	15816	49.91
5	5293	332	290	5915	414	3004	0	5379	5173	-673	-725	13781	210	13991	1694	15685	49.92
6	5430	327	300	6057	435	3023	0	5443	5426	-705	-740	14201	363	14564	1763	16327	50.02
7	5453	355	321	6129	418	3055	0	5374	5497	-687	-723	14403	912	15315	1829	17144	49.97
8	5523	556	322	6401	281	3055	24	5339	5584	-669	-711	14671	950	15621	1930	17551	50.01
9	5635	775	298	6708	208	3074	64	5408	5469	-753	-768	14792	854	15646	2168	17814	49.95
10	5911	1317	299	7527	215	2834	102	5578	5840	-957	-1076	15479	633	16112	2486	18598	49.87
11	5940	1745	299	7984	172	2814	142	5785	5946	-1175	-1259	15812	643	16455	2735	19190	49.92
12	5949	1935	272	8156	66	2841	159	5876	5538	-1224	-1249	15511	789	16300	2815	19115	49.95
13	5777	1855	255	7887	58	2848	166	5934	6130	-1216	-1329	15760	943	16703	2823	19526	50.07
14	5524	1903	267	7694	67	2818	160	5873	6125	-1176	-1217	15647	836	16483	2761	19244	50.04
15	5483	2169	260	7912	116	2824	141	5803	6220	-1127	-1253	15960	674	16634	2784	19418	49.99
16	4973	2420	258	7651	112	2826	114	5796	6388	-1129	-1202	15889	845	16734	2782	19516	49.99
17	5036	2142	258	7436	207	3008	73	5724	5983	-1020	-1173	15534	916	16450	2737	19187	50.03
18	5064	963	258	6285	319	2946	29	5431	5128	-830	-1158	13549	763	14312	2673	16985	50.10
19	5090	503	257	5850	376	3114	2	5361	5172	-882	-1119	13405	111	13516	2600	16116	49.91
20	5288	863	256	6407	455	3171	0	5421	5271	-1056	-1124	14216	256	14472	2697	17169	49.91
21	5547	459	248	6254	412	3219	0	5406	5280	-1001	-1217	13984	238	14222	2628	16850	49.96
22	5523	351	248	6122	385	3211	0	5254	4967	-860	-1273	13439	140	13579	2492	16071	49.94
23	5472	502	248	6222	359	3199	0	5289	5093	-870	-1193	13703	69	13772	2363	16135	49.84
24	5420	612	248	6280	314	3113	0	5375	5374	-970	-1072	14046	70	14116	2274	16390	49.92
MUs	130.18	24.23	6.63	161.04	6.91	72.01	1.18	132.40	133.74	-22.00	-25.41	349.78	11.88	361.66	56.56	418.21	49.96

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 29/Mar/2014

Position as on 6.30 Hrs of 30/Mar/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	
Bhusawal Unit 3	210	29/03/2014	22.25		Continued.	CD Path Fine Gas Duct Internal Inspection.	
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.	
Dabhol 3X	290	29/12/2013	05.47		Continued.	Gas Shortage	
Dabhol 3B	230	29/12/2013	06.14		Continued.	Gas Shortage	
Uran Unit 8	108	03/01/2014	14.06		Continued.	Gas Shortage	
Tata Trombay 8	250	09/01/2014	22.54		Continued.	Emergency H/T,Fire at turbine track.	
CPP WPCL U-1	135	30/01/2014	12.45		Continued.	turbine vibration	
CPP WPCL U-2	135	18/02/2014	00.02		Continued.	Ash Conveying problem	
Koradi Unit 5	200	23/02/2014	04.04		Continued.	ID Fan Problem.	
CPP JSW (J) U2	300	28/02/2014	17.52		Continued.	No Schedule.	
CPP JSW (J) U1	300	12/03/2014	12:00		Continued.	Condensor Tube Leakage.	
Uran Unit 6	108	16/03/2014	08.03		Continued.	gas shortage	
CPP Adani U-2	660	20/03/2014	11.32		Continued.	BTL.	
Parli Unit 5	210	25/03/2014	12.18		Continued.	Stator Earth Fault	
Bhusawal Unit 2	210	26/03/2014	10.55	29/03/2014	10.03	Boiler Tube Leakage	
Khaparkheda Unit 5	500	29/03/2014	15.01	29/03/2014	17.49	Tripped Main Oil Tank Level Low.	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 29/Mar/2014

Position as on 6.30 Hrs of 30/Mar/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		
A'bad-Talegaon PG-1	28/03/2014	15.03	29/03/2014	00.36	For Crossing of A'bad PG DC Lines.
Talegaon PG- Aurangabad - II	28/03/2014	15.16	29/03/2014	09.02	For Crossing of A'bad PG DC Lines.
Voltage Level : 500KV			Outage Type HAND TRIPPED		
765KV Akola II - Tiroda - I	23/03/2014	17.18		Continued.	Hand Tripped.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Dhule-Sar'Sarovar - I	29/03/2014	23.08	30/03/2014	06.53	Over Voltage.
Voltage Level : 400KV			Outage Type TRIPPED		
Lonikand -Talegaon(PG)	29/03/2014	12.40	29/03/2014	13.55	R Ph E/F,Z-I Operated.
Voltage Level : 220KV			Outage Type TRIPPED		
Nasik - Navasari - II	30/03/2014	12.53	30/03/2014	13.52	Dist.Prot.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
Lonikand 2-Parli-I	29/03/2014	04.00	29/03/2014	08.09	Line Reactor Work.
400/220 KV 315 MVA ICT-I @ Nagothane	29/03/2014	07.45	29/03/2014	18.12	Relay Testing,Tan Delta of CT,R.M.Work.
80 MVAR Bus Reactor @ Nagothane	29/03/2014	08.50	29/03/2014	17.30	Painting Work.
TBC at 400KV Lonikand.	29/03/2014	10.40	29/03/2014	16.30	Attend Hot Spot on 29B Isolator.
400/220 KV 167 MVA Spare ICT @ Deepnagar	29/03/2014	11.05		Continued.	SFRA, Tan Delta.
New Koyna - Dabhol - II	29/03/2014	11.12	29/03/2014	18.35	Replacement of Broken Rotating Insulator Stag of B Ph of Bus-2.
400/220KV 500 MVA ICT I at Kalwa	30/03/2014	08.53	30/03/2014	18.08	For charging of 220KV LV inter connection bay of 500MVA ICT-I.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Apta-Taloja	29/03/2014	08.05	29/03/2014	11.34	CT Tan Delta Work.
220/100KV 200MVA ICT-III at Kalwa	29/03/2014	08.20	29/03/2014	19.00	SFRA,Tan Delta of Bushing,CT,CB CRM Timing & R.M.Work.
Babaleshwar - Chalisgaon	29/03/2014	10.14	29/03/2014	14.16	For Tap of New 220KV Kopergaon S/S.
C' Enka - Khadki	29/03/2014	10.25	29/03/2014	18.12	Replacement of 220KV CT's.
Uran - HOCL	29/03/2014	11.31		Continued.	Tan Delta Testing.
Uran-Kharghar-I	29/03/2014	16.10	29/03/2014	19.56	LBB Relay Testing,Tan Delta Work.
Dahanu-Ghodbandar-II	30/03/2014	06.04	30/03/2014	13.24	Retrofitting of static dist prot relay with numerical.
Main Bus - I @ Ghodbunder	30/03/2014	13.41	30/03/2014	20.19	A.M.Work
Kalwa - Borivali	30/03/2014	13.47	30/03/2014	15.56	Hot Spot of Y-Ph isolator.
Parli-Usmanabad	30/03/2014	17.00	30/03/2014	18.33	Hot Spot.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
New Koyna - Dabhol - I	06/02/2014	00.02	29/03/2014	10.26	Over Voltage.(RFC 20.35 Hrs on 16.02.14)
Karad-Kolhapur-II	28/03/2014	16.34	29/03/2014	06.28	Over Voltsge.
Bhusawal- Aurangabad	28/03/2014	17.11	29/03/2014	07.00	Over Voltage.
Karad-Jaigad I	28/03/2014	17.39	29/03/2014	06.32	Over Voltage.
Karad-Jaigad I	29/03/2014	16.36	30/03/2014	06.53	Over Voltage.

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 29/Mar/2014

Position as on 6.30 Hrs of 30/Mar/2014

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Karad - Kolhapur - I	29/03/2014	17.05	30/03/2014	07.02	Over Voltage.
Bhusawal- Aurangabad	29/03/2014	18.45	30/03/2014	06.19	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		
220/132 KV 150 MVA T/F-I @ Boiser	30/03/2014	17.35		Continued.	Oil leakage.
Voltage Level : 400KV			Outage Type TRIPPED		
Dabhol-Nagothane - II	18/03/2014	13.15		Continued.	Distance Protection(RFC 17.35Hrs)
Voltage Level : 220KV			Outage Type TRIPPED		
Karad-Kadegaon	29/03/2014	12.05	29/03/2014	12.31	Y-E Ph Fault.
Kandalgaon - Sona Alloy	29/03/2014	12.55	29/03/2014	13.25	Dist. Prot. Optd.
Kandalgaon-Lonand	29/03/2014	12.56	29/03/2014	13.10	B Ph. Dist. Prot.
Umred - Virangana	30/03/2014	14.00	30/03/2014	14.40	Dist.Prot.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 30/Mar/2014

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	0
Unit 6	210	140
Unit 7	210	150
	620	290
Bhusawal		
Unit 2	210	140
Unit 3	210	0
Unit 4	500	360
Unit 5	500	330
	1420	830
Parli		
Unit 3	210	0
Unit 4	210	170
Unit 5	210	0
Unit 6	250	174
Unit 7	250	170
	1130	514
Chandrapur		
Unit 1	210	150
Unit 2	210	165
Unit 3	210	190
Unit 4	210	210
Unit 5	500	450
Unit 6	500	450
Unit 7	500	400
	2340	2015
Paras		
Unit 3	250	230
Unit 4	250	0
	500	230
Khaparkheda		
Unit 1	210	180
Unit 2	210	180
Unit 3	210	185
Unit 4	210	210
Unit 5	500	500
	1340	1255
Nasik		
Unit 3	210	190
Unit 4	210	190
Unit 5	210	190
	630	570
Uran		
All Units	852	260
	852	260
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	61

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	0
ELDARY	23	0
SMLHY PTN	12	15
GHATGHAR	250	0
	611	211
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	370
WARDHA	405	220
Adani	1980	1234
Other CPPs	300	404
	3885	2228
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	0
TATA Hydro	444	447
	2024	1127
REL		
1&2	500	500
	500	500
Cent Sect		
Share	3455	5677
	3455	5677