



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

State Load Dispatch Center, Airoli

Daily system Report

for

20/Dec/2013

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 20/Dec/2013 FRIDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	115.860	2159.223	1) Gujrat	10.686	248.134
2) Hydro	19.478	350.752	2) Madhya Pradesh	15.671	365.416
3) Gas	3.367	136.274	3) Chattisgarh	9.320	201.980
Total MSGENCO	138.705	2646.249	4) Maharashtra	72.672	1532.072
B) 1) JSW JAIGAD	17.899	385.936	5) Goa	-5.778	-108.641
2) WPCL	8.004	153.680	6) TAPS 1&2 Injection	3.845	76.955
3) ADANI	29.200	563.910	7) RGPPL Injection	6.611	91.369
4) Other CPP / IPP	10.639	161.012	8) Pench (Excess)	-0.483	-8.872
5) Wind Generation	1.117	81.359	# Total Cent. Sector	112.544	2398.413
6) PENCH (MS)	0.483	8.872	F) Other Exchanges		
7) SOLAR	0.672	16.887	1) With TPCL (Excess)	-15.309	-326.282
C) 1) TPCL Thermal	17.229	371.066	G) Bilateral Power *		
2) TPCL Hydro	5.084	89.892	1) MSEDCL Bilateral	17.905	550.570
TOTAL TPCL	22.313	460.958	Include PX	1.135	4.845
3) REL Thermal	11.667	227.361	2) MUMBAI Bilateral	13.055	316.970
D) STATE			Include PX	-0.264	40.821
1) Thermal (A1+C1+C3)	144.756	2757.650	3) MUMBAI Schedule	13.055	319.769
2) Hydro (A2+B6+C2)	25.045	449.516	H) ENERGY CATERED (MUs)		
3) Gas (A3)	3.367	136.274	1) MSEDCL	303.954	6090.036
4) Wind (B5)	1.117	81.359	2) TPCL	32.266	659.718
5) CPP/IPP (B1+B2+B3+B4)	65.742	729.828	3) REL	17.022	354.854
6) SOLAR (B7)	0.672	16.887	TOTAL STATE	353.242	7104.608
TOTAL STATE	240.699	4171.514			

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 17 Hrs	C. Night Minimum at 2 Hrs
MSGENCO Thermal	5100	4959	4614
MSGENCO Hydro	1938	1227	154
MSGENCO Gas	135	135	154
MSGENCO Total Generation	7173	6321	4922
Central Sector Receipt	4994	4841	4294
WIND	20	94	77
CPP / IPP	2820	2762	2707
SOLAR	129	25	0
Exchange with Mumbai	-798	-762	-425
MSEDCL DEMAND MET	14388	13334	11575
Load Shedding	722	501	11
MSEDCL DEMAND	15110	13835	11586
TPCL GENERATION	1262	1155	595
R-INFRA GENERATION	524	525	387
TPCL+R-INFRA DEMAND	2584	2442	1407
STATE DEMAND MET	16972	15776	12982
STATE DEMAND	17694	16277	12993
Frequency (Hz)	49.93	49.81	49.91

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.34 Hz at 22:57 Hrs	49.47 Hz at 06:48 Hrs	49.92	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 20/Dec/2013

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)		
Koradi						Total	14.95	263.23			1090	
Unit 5	0.00	45.77	0	0	0	Hydro						
Unit 6	3.35	56.15	156	115	130	KDPH	0.15	9.11	19	0	18	
Unit 7	3.67	74.39	175	127	130	VTRNA	0.00	0.00	0	0	0	
Total	7.02	176.30			260	TILLARI	0.00	0.00	0	0	0	
Bhusawal						BHTGR/VEER	0.03	1.35	2	1	2	
Unit 2	3.11	69.80	135	125	130	BHIRA T.R.	0.26	5.10	41	0	40	
Unit 3	3.12	62.76	135	120	130	RNGR+BHTSA	0.38	7.61	17	15	17	
Unit 4	7.32	63.50	345	260	323	BHANDARDRA	0.83	5.83	35	34	33	
Unit 5	6.20	71.30	275	240	0	ELDARY	0.00	0.00	0	0	0	
Total	19.74	267.36			583	SMLHY_PTN	1.00	21.12	42	41	10	
Parli						GHATGHAR	1.87	37.40	250	0	0	
Unit 3	0.00	0.00	0	0	0	Total	4.53	87.53			120	
Unit 4	4.09	79.01	186	152	160	Wind						
Unit 5	3.92	63.99	175	146	163	MalharPeth	0.09	5.05				
Unit 6	4.09	87.30	184	160	170	Vankuswadi	0.14	10.54				
Unit 7	3.93	84.24	191	154	162	ATIT	0.01	4.52				
Total	16.02	314.55			655	Kale	0.03	3.77				
Chandrapur						Satara	0.30	29.02				
Unit 1	3.30	63.26	145	128	140	Shirala	0.03	3.75				
Unit 2	2.37	50.58	132	30	80	K Mahankal	0.01	1.71				
Unit 3	3.22	67.45	176	0	170	Supa	0.03	1.07				
Unit 4	4.69	76.68	202	184	200	Vita	0.18	8.76				
Unit 5	0.00	0.00	0	0	0	Dondaicha	0.19	7.60				
Unit 6	9.61	163.41	425	371	400	Sakri	0.03	0.92				
Unit 7	9.72	183.60	427	378	400	Nandurbar	0.02	0.55				
Total	32.91	604.98			1390	Khandke	0.02	2.05				
Paras						Khaparale	0.04	2.04				
Unit 3	0.00	85.62	0	0	0	Total	1.12	81.36				
Unit 4	5.61	102.49	252	202	240	CPP						
Total	5.61	188.10			240	JSW_JAIGAD	17.90	385.94	904	482	825	
Khaparkheda						WARDHA	8.00	153.68	338	328	334	
Unit 1	3.42	40.91	175	120	162	Adani	29.20	563.91	1230	1200	1234	
Unit 2	0.00	39.62	0	0	0	Other_CPPs	10.64	160.93				
Unit 3	4.00	47.10	210	0	162	Total	65.74	1264.46			2393	
Unit 4	4.46	75.98	195	173	180	SOLAR						
Unit 5	10.02	171.68	475	360	425	Total	0.67	16.89				
Total	21.90	375.29			929	Total	0.67	16.89				
Nasik						Tata						
Unit 3	4.20	72.47	190	155	190	Trombay 4	0.00	0.00	0	0	0	
Unit 4	4.22	85.17	190	164	190	Trombay 5	10.37	210.14	502	316	500	
Unit 5	4.24	75.00	190	163	190	Trombay 6	0.00	0.00	0	0	0	
Total	12.66	232.64			570	Trombay 7A	1.19	27.10	50	49	120	
Uran						Trombay 7B	0.97	21.82	42	39	60	
All Units	3.37	136.27	154	133	130	Trombay 8	4.70	112.02	251	119	250	
Total	3.37	136.27			130	TATA Hydro	5.08	89.89	437	0	447	
PENCH (MS)						Total	22.31	460.96			1377	
Pench (MS)	0.48	8.87	54	0	0	REL						
Total	0.48	8.87			0	1&2	11.67	227.36	528	387	500	
Koyna						Total	11.67	227.36			500	
Stage 1-2	4.15	82.97	420	40	600	Cent Sect						
Stage 4	8.17	134.19	1120	0	250	Share					5206	
Stage 3	2.63	46.07	240	0	240	Total					5206	
Koyna 12&4 Total	12.32	217.16			850	MS PG CL						
							Thermal	115.86	2159.22			4627
							Thml+Gas	119.23	2295.50			4757
							Hydro	19.48	350.75			1210
							Total	138.70	2646.25			5967
							State Total	240.70	4171.51			15443

State Load Dispatch Center, Airoli (MSETCL)

Hourly Load Data As on 20/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 SHEDDING	MSEDCL DEM. WITH LS	TPCL + R -INFRA DEMAND	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS														
1	4609	158	154	4921	82	2713	0	4177	4457	-503	-555	11618	61	11679	1535	13214	49.97
2	4614	154	154	4922	77	2707	0	4161	4294	-395	-425	11575	11	11586	1407	12993	49.91
3	4631	154	154	4939	77	2700	0	4150	4332	-333	-362	11686	11	11697	1347	13044	49.98
4	4582	154	144	4880	55	2690	0	4120	4581	-312	-338	11868	11	11879	1319	13198	50.00
5	4609	249	144	5002	48	2728	0	4125	4458	-318	-328	11908	27	11935	1311	13246	49.88
6	4756	318	143	5217	50	2712	0	4629	4807	-359	-438	12348	279	12627	1436	14063	49.86
7	4855	660	141	5656	28	2721	1	4582	4803	-354	-475	12734	827	13561	1633	15194	49.85
8	4919	1212	141	6272	28	2704	9	4613	4773	-376	-325	13494	882	14376	1789	16165	49.83
9	4967	1586	144	6697	23	2704	20	4901	4824	-405	-437	13881	855	14736	2049	16785	49.89
10	4987	1733	140	6860	22	2804	29	5145	5207	-488	-558	14414	650	15064	2348	17412	49.86
11	5021	1899	137	7057	22	2824	56	5177	5118	-663	-773	14354	623	14977	2549	17526	49.97
12	5100	1938	135	7173	20	2820	129	5199	4994	-683	-798	14388	722	15110	2584	17694	49.93
13	5039	1747	134	6920	20	2814	125	5032	4876	-635	-802	14003	861	14864	2582	17446	49.89
14	5002	1571	133	6706	30	2795	103	4850	4682	-602	-685	13657	757	14414	2440	16854	49.88
15	5004	1348	135	6487	40	2769	113	5000	4921	-579	-689	13668	623	14291	2443	16734	49.90
16	4977	1578	135	6690	69	2744	60	4996	4694	-576	-712	13599	527	14126	2448	16574	49.88
17	4959	1227	135	6321	94	2762	25	4982	4841	-670	-762	13334	501	13835	2442	16277	49.81
18	4925	346	136	5407	88	2870	2	4922	4503	-707	-859	12051	650	12701	2447	15148	49.88
19	4968	349	138	5455	74	2914	0	5072	4921	-809	-877	12487	577	13064	2549	15613	49.90
20	4801	355	138	5294	47	2685	0	4964	4846	-684	-877	11995	671	12666	2522	15188	49.95
21	4659	341	138	5138	29	2644	0	4621	4847	-623	-979	11679	458	12137	2321	14458	49.98
22	4654	132	138	4924	28	2646	0	4355	4205	-619	-815	10988	339	11327	2139	13466	50.00
23	4663	132	138	4933	27	2655	0	4366	4048	-750	-679	10984	247	11231	1919	13150	50.10
24	4559	137	138	4834	39	2617	0	4388	4512	-614	-761	11241	142	11383	1730	13113	50.08
MUs	115.86	19.48	3.37	138.70	1.12	65.74	0.67	112.53	112.54	-13.06	-15.31	303.95	11.31	315.27	49.29	364.56	49.92

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 20/Dec/2013

Position as on 6.30 Hrs of 21/Dec/2013

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.	
Cent_Sect Tarapur 2	160	24/11/2013	20.42		Continued.	Maint.work.	
Koyna Unit 10	80	12/12/2013	08.00		Continued.	Annual Maint.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.	
CPP WPCL U-3	135	10/11/2013	6.10		Continued.	I D Fan Problem	
CPP INDIABULLS	270	25/11/2013	00:00	20/12/2013	15.23	Non-availability of coal	
Uran Unit 5	108	25/11/2013	21.33		Continued.	Gas Shortage.	
CPP Adani U-3	660	01/12/2013	23.49		Continued.	TO ATTEND OIL LEAKAGE BEARING NO 7	
Uran Unit A0	120	04/12/2013	13.26		Continued.	GAS RESTRICTION	
Uran Unit 6	108	04/12/2013	13.26		Continued.	Gas Restriction	
Khaparkheda Unit 2	210	14/12/2013	11.41		Continued.	Poor coal receipt.	
Paras Unit 3	250	18/12/2013	10.27		Continued.	Furance Pressure High.	
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.	
Khaparkheda Unit 3	210	19/12/2013	22.47	20/12/2013	01.05	Furnace Pressure High.	
Chandrapur Unit 3	210	20/12/2013	19.22	21/12/2013	00.13	P.A.Fan problem.	
CPP JSW (J) U1	300	20/12/2013	19.43		Continued.	CW Line Leakage.	

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 20/Dec/2013

Position as on 6.30 Hrs of 21/Dec/2013

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
InterState					
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Borivali -Tarapur	07/12/2013	10.15		Continued.	MUMBAI STRENGTHENING WORK
Talangde - Chikodi	20/12/2013	12.27	20/12/2013	20.53	Maint.Work.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
A'bad-Talegaon PG-1	07/12/2013	10.12		Continued.	line readyfor charging
765 KV Seoni-Wardha-II	10/12/2013	1:24		Continued.	H/T TO CONTROL O/V
Kolhapur-Solapur(PGCIL)-I	17/12/2013	16.15		Continued.	Over Voltage.
Kolhapur - Mapusa - II	19/12/2013	16.36	20/12/2013	09.26	Over Voltage.
Dhule-Sar'Sarovar - I	19/12/2013	22.07	20/12/2013	07.53	Over Voltage.
Solapur - Solapur (PG)	19/12/2013	22.14	20/12/2013	06.39	Over Voltage.
Kolhapur - Mapusa - II	20/12/2013	16.39		Continued.	Over Voltage.
Solapur-Solapur(PGCIL)	20/12/2013	20.08		Continued.	Over Voltage.
Dhule-Sar'Sarovar - II	20/12/2013	23.11		Continued.	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		
Wardha - Deoli (PGCIL)	05/12/2013	19.30		Continued.	To control L/L due to 220KV Wardha-Warora Outage.
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.
400/220KV 315 MVA ICT-I @ Padgha	26/11/2013	10.25		Continued.	Taken on TBC LV Side.(15 Days)
Dabhol - Nagothane - I	12/12/2013	10.48		Continued.	Testing Work.RFC 19.10 Hrs.of 16.12.2013
400/220 KV 315 MVA ICT-III @ Padgha	19/12/2013	10.22		Continued.	Taken on TBC,servicing and overhauling of 400KV A bus PG isolator of R.Y.B-Ph.
Akola - Indiabull (Nandgaonpeth)	20/12/2013	07.08	20/12/2013	09.50	408-89B isolator maint.work at Indiabull.
Kalwa - Padgha - I	20/12/2013	08.14	20/12/2013	20.25	CT Tan delta,BKR Timing.
400/220 KV 315 MVA ICT-III @ Padgha	20/12/2013	09.54	20/12/2013	21.03	Hot Spot.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Chalisingaon-Khadka II	07/10/2013	11.37		Continued.	Modification of existing Khadka-Chalisingaon line.
Pusad-Nanded	05/12/2013	06.03		Continued.	220KV Ghatodi S/S LILO Work.
Ghodbandar - Bhoisor (MSETCL)	07/12/2013	10.38		Continued.	MUMBAI STRENGTENING WORK
220/132 KV 150 MVA T/F-I @ Boiser	10/12/2013	13.04		Continued.	Vaccum and drying process due to moisture in WDG.of ICT.
Trombay-Dharavi	16/12/2013	09.34		Continued.	Erection of Cable ceiling end and Tugh Bus removal at Trombay
Ahmadnagar-Bose II	16/12/2013	16.13		Continued.	To attend discrepancies during joint inspection
Kalwa-Mulund-I	20/12/2013	09.18	20/12/2013	18.52	R.M.Work.
Kalwa - Siemens	20/12/2013	09.20	20/12/2013	16.56	Hot Spot, on R-Ph W/T at Siemens.
Mumewadi-Mudshingi	20/12/2013	09.33	20/12/2013	18.00	Repl.of old insulator.
Apta-Taloja	20/12/2013	09.37	20/12/2013	18.28	E/W Repl & Nut bolt tightenng.

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 20/Dec/2013

Position as on 6.30 Hrs of 21/Dec/2013

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Ghatghar - Washala	20/12/2013	10.00	20/12/2013	14.41	R.M.Work,on CT,CB & Isolator.
Kamba - Kolshet	20/12/2013	10.10	20/12/2013	16.49	New connection of jumper of 220KV Bus to isolator.
Bus Section II at Taloja	20/12/2013	10.12	20/12/2013	18.25	Hot Spot, and carrying out R.M.Work.
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
Bhusawal - Deepnagar - II	03/12/2013	12.08		Continued.	Over Voltage.
Deepnagar-Waluj I	03/12/2013	12:08		Continued.	Over Voltage.
Karad - Kolhapur - II	08/12/2013	16.36		Continued.	OVER VOLTAGE
Bhusawal- Aurangabad	13/12/2013	18.55		Continued.	over voltage
Lonikand- Koyna Stage IV	18/12/2013	21.42	20/12/2013	09.36	Over Voltage.RFC 22.23 Hrs on 19.12.13
Karad-Jaigad I	19/12/2013	21.50	20/12/2013	09.16	Over Voltage.
Karad-Jaigad I	20/12/2013	17.06		Continued.	Over Voltage.
Lonikand- Koyna Stage IV	20/12/2013	21.46		Continued.	Over Voltage.
Voltage Level : 220KV Outage Type HAND TRIPPED					
Chikhali - Jalna - I	17/11/2013	18.00		Continued.	To control 220KV Paras-Chikhali Ckt Loading.
Chikhali - Jalna - II	17/11/2013	18.00		Continued.	To control 220KV Paras-Chikhali Ckt Loading.
Voltage Level : 220KV Outage Type TRIPPED					
220/100 KV,200MVA ICT - I at Padgha	07/06/2013	17.48		Continued.	Diff.Protection
Talandge - Sawantwadi - II.	29/10/2013	17.30		Continued.	Dist Prot.
Voltage Level : 132KV Outage Type TRIPPED					
Dhule-Sakri	20/12/2013	22.05	20/12/2013	23.38	Dist prot.

State Load Dispatch Center, Airoli (MSETCL)

Details of On Line Capacity for 21/Dec/2013

Generating unit	Derated Capacity (MW)	OLC (MW)	Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi			TILLARI	60	0
Unit 5	200	0	BHTGR/VEER	21	2
Unit 6	210	150	BHIRA T.R.	80	40
Unit 7	210	170	RNGR+BHTSA	20	17
	620	320	BHANDARDRA	45	33
Bhusawal			ELDARY	23	0
Unit 2	210	130	SMLHY_PTIN	12	10
Unit 3	210	130	GHATGHAR	250	0
Unit 4	500	301		611	120
Unit 5	500	0	Wind		
	1420	561	MalharPeth	0	
Parli			Vankuswadi	0	
Unit 3	210	0	ATIT	0	
Unit 4	210	160	Kale	0	
Unit 5	210	160	Satara	0	
Unit 6	250	170	Shirala	0	
Unit 7	250	165	K Mahankal	0	
	1130	655	Supa	0	
Chandrapur			Vita	0	
Unit 1	210	135	Dondaicha	0	
Unit 2	210	120	Sakri	0	
Unit 3	210	150	Nandurbar	0	
Unit 4	210	195	Khandke	0	
Unit 5	500	0	Khaparale	0	
Unit 6	500	425		0	
Unit 7	500	360	CPP		
	2340	1385	JSW_JAIGAD	1200	550
Paras			WARDHA	405	330
Unit 3	250	0	Adani	1980	1234
Unit 4	250	250	Other_CPPs	300	245
	500	250		3885	2359
Khaparkheda			SOLAR		
Unit 1	210	180	Total	0	
Unit 2	210	0		0	
Unit 3	210	210	Tata		
Unit 4	210	200	Trombay 4	150	0
Unit 5	500	450	Trombay 5	500	500
	1340	1040	Trombay 6	500	0
Nasik			Trombay 7A	120	120
Unit 3	210	190	Trombay 7B	60	60
Unit 4	210	190	Trombay 8	250	250
Unit 5	210	190	TATA Hydro	444	447
	630	570		2024	1377
Uran			REL		
All Units	852	280	1&2	500	500
	852	280		500	500
PENCH (MS)			Cent Sect		
Pench (MS)	53		Share	3455	4956
	53			3455	4956
Koyna					
Stage 1-2	600	600			
Stage 4	1000	250			
Stage 3	320	240			
	1920	1090			
Hydro					
KDPH	40	18			
VTRNA	60	0			