



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

State Load Dispatch Center, Airoli

Daily system Report

for

21/May/2013

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 21/May/2013 TUESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	119.271	2436.165	1) Gujrat	13.831	260.566
2) Hydro	10.713	301.031	2) Madhya Pradesh	14.178	390.432
3) Gas	10.829	184.295	3) Chattisgarh	8.350	189.600
Total MSGENCO	140.813	2921.491	4) Maharashtra	61.371	1359.211
B) 1) JSW JAIGAD	27.891	555.827	5) Goa	-5.933	-131.463
2) WPCL	7.736	162.977	6) TAPS 1&2 Injection	3.816	80.195
3) ADANI	0.000	225.850	7) RGPPL Injection	27.890	251.833
4) Other CPP / IPP	13.182	230.064	8) Pench (Excess)	-0.187	-3.502
5) Wind Generation	21.928	307.387	# Total Cent. Sector	123.316	2396.872
6) PENCH (MS)	0.187	3.502	F) Other Exchanges		
C) TPCL & REL			1) With TPCL (Excess)	-18.740	-315.227
1) TPCL Thermal	28.697	569.125	G) Bilateral Power *		
2) TPCL Hydro	4.387	79.871	1) MSEDCL Bilateral	22.708	749.192
TOTAL TPCL	33.084	648.996	Include PX	0.000	50.068
3) REL Thermal	9.133	256.944	2) MUMBAI Bilateral	17.472	332.442
D) STATE			Include PX	2.527	74.011
1) Thermal (A1+C1+C3)	157.101	3262.234	3) MUMBAI Schedule	19.068	334.039
2) Hydro (A2+B5+C2)	15.287	384.404	H) ENERGY CATERED (MUs)		
3) Gas (A3)	10.829	184.295	1) MSEDCL	316.313	6488.743
4) Wind (B4)	21.928	307.387	2) TPCL	39.440	790.373
5) CPP (B1+B2+B3)	48.809	948.868	3) REL	21.516	430.765
TOTAL STATE	253.954	5087.188	TOTAL STATE	377.269	7709.881

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	4925	4987	5056
MSGENCO Hydro	664	871	107
MSGENCO Gas	462	422	471
MSGENCO Total Generation	6051	6280	5634
Central Sector Receipt	5204	5181	4433
WIND	972	894	1133
CPP / IPP	2166	2115	1843
Exchange with Mumbai	-891	-1054	-334
MSEDCL DEMAND MET	13513	13423	12709
Load Shedding	0	0	0
MSEDCL DEMAND	13513	13423	12709
TPCL GENERATION	1735	1682	1094
R-INFRA GENERATION	395	257	467
TPCL+R-INFRA DEMAND	3021	2993	1895
STATE DEMAND MET	16534	16416	14604
STATE DEMAND	16534	16416	14604
Frequency (Hz)	49.94	49.98	49.92

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.67 Hz at 23.54 Hrs	49.68 Hz at 05.22 Hrs	50	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 21/May/2013

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	3.10	54.25	150	115	130
Unit 6	3.27	62.84	150	116	125
Unit 7	3.41	75.98	155	95	135
Total	9.78	193.06			390
Bhusawal					
Unit 2	0.00	57.41	0	0	0
Unit 3	3.72	76.85	170	135	160
Unit 4	7.62	180.84	375	270	430
Unit 5	3.44	30.82	200	0	
Total	14.78	345.92			590
Parli					
Unit 3	0.00	0.00	0	0	
Unit 4	0.00	0.00	0	0	
Unit 5	0.00	0.00	0	0	
Unit 6	0.00	0.00	0	0	
Unit 7	0.00	0.00	0	0	
Total	0.00	0.00			
Chandrapur					
Unit 1	3.81	78.52	164	149	165
Unit 2	3.86	73.94	168	150	165
Unit 3	4.76	97.01	205	184	200
Unit 4	4.25	87.85	184	142	200
Unit 5	10.55	213.32	455	420	450
Unit 6	10.48	204.26	450	417	450
Unit 7	9.12	151.13	404	362	400
Total	46.82	906.03			2030
Paras					
Unit 3	5.93	116.81	260	226	250
Unit 4	5.83	115.16	257	225	250
Total	11.75	231.98			500
Khaparkheda					
Unit 1	3.37	67.61	160	110	180
Unit 2	3.48	74.02	175	120	150
Unit 3	3.59	77.11	168	118	170
Unit 4	3.70	82.01	183	122	190
Unit 5	8.79	190.04	410	302	400
Total	22.93	490.79			1090
Nasik					
Unit 3	4.46	89.48	195	170	190
Unit 4	4.27	86.06	183	172	180
Unit 5	4.48	92.85	196	172	195
Total	13.21	268.39			565
Uran					
All Units	10.83	184.30	484	344	460
Total	10.83	184.30			460
PENCH (MS)					
Pench (MS)	0.19	3.50	26	0	
Total	0.19	3.50			
Koyna					
Stage 1-2	3.58	85.28	480	40	600
Stage 4	1.94	104.54	392	0	250
Stage 3	1.43	42.06	160	0	240
Kovna 12&4 Total	5.53	189.82			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	6.96	231.88			1090
Hydro					
KDPH	0.77	14.99	33	32	33
VTRNA	0.00	12.89	0	0	0
TILLARI	0.35	7.25	60	0	60
BHTGR/VEER	0.00	0.36	0	0	
BHIRA T.R.	0.20	4.20	80	0	43
RNGR+BHTSA	0.26	5.73	11	10	
BHANDARDRA	0.00	3.36	0	0	
ELDARY	0.00	0.00	0	0	
SMLHY PTN	0.50	10.44	21	20	11
GHATGHAR	1.67	9.94	250	0	
Total	3.75	69.15			147
Wind					
MalharPeth	0.42	9.83			
Vankuswadi	0.77	14.53			
ATIT	0.04	7.02			
Kale	0.27	6.72			
Satara	4.28	22.88			
Shirala	0.30	6.73			
K Mahankal	0.08	13.96			
Supa	0.23	2.53			
Vita	2.65	22.99			
Dondaicha	8.57	139.20			
Sakri	1.10	17.77			
Nandurbar	1.03	15.12			
Khandke	1.03	12.77			
Khaparale	1.16	15.35			
Total	21.93	307.39			
CPP					
JSW JAIGAD	27.89	555.83	1195	1061	1096
WARDHA	7.74	162.98	327	315	325
Adani	0.00	225.85	0	0	
Other CPPs	13.18	230.06			223
Total	48.81	1174.72			1644
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	11.95	241.13	503	471	500
Trombay 6	7.04	108.53	495	150	500
Trombay 7A	2.28	60.90	124	67	120
Trombay 7B	1.43	33.55	68	51	60
Trombay 8	6.00	125.02	253	236	250
TATA Hydro	4.39	79.87	429	0	447
Total	33.08	649.00			1877
REL					
1&2	9.13	256.94	524	256	500
Total	9.13	256.94			500
Cent Sect					
Share					5168
Total					5168

MS PG CL	Thermal	119.27	2436.16			5165
	Thml+Gas	130.10	2620.46			5625
	Hydro	10.71	301.03			1237
	Total	140.81	2921.49			6862
State Total		253.95	5087.19			16051

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 21/May/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	5116	610	471	6197	826	2005	4969	5016	-716	-685	13359	0	13359	2398	15757	49.98
2	4984	525	471	5980	850	1921	4879	4879	-620	-531	13099	0	13099	2173	15272	50.02
3	5078	147	471	5696	1056	1954	4826	4612	-550	-422	12896	0	12896	2040	14936	49.94
4	5054	112	471	5637	1135	1873	4799	4458	-504	-334	12769	0	12769	1949	14718	49.96
5	5056	107	471	5634	1133	1843	4794	4433	-503	-334	12709	0	12709	1895	14604	49.92
6	5123	102	478	5703	1222	1841	4772	4629	-503	-359	13036	0	13036	1930	14966	49.92
7	5093	108	476	5677	1164	1852	4768	4631	-500	-289	13035	0	13035	1903	14938	50.10
8	5028	104	473	5605	1198	1976	4787	4723	-500	-383	13119	0	13119	2002	15121	50.04
9	5020	141	460	5621	1219	2055	4789	4995	-519	-537	13353	0	13353	2292	15645	50.07
10	5063	204	460	5727	1065	2108	4985	5095	-674	-632	13363	0	13363	2665	16028	49.98
11	4978	494	460	5932	901	2092	5124	5320	-801	-775	13470	0	13470	2975	16445	49.97
12	4925	664	462	6051	972	2166	5137	5204	-982	-891	13513	0	13513	3021	16534	49.94
13	4925	681	460	6066	892	2189	5224	5313	-1099	-1049	13437	0	13437	3021	16458	49.93
14	4866	500	460	5826	865	2155	5184	5525	-1060	-1067	13329	0	13329	2961	16290	49.96
15	4976	808	459	6243	784	2165	5114	5471	-1057	-1105	13584	0	13584	3020	16604	49.99
16	5041	1272	440	6753	912	2143	5032	5171	-1091	-1058	13947	0	13947	3021	16968	49.98
17	4987	871	422	6280	894	2115	4987	5181	-1061	-1054	13423	0	13423	2993	16416	49.98
18	4943	479	417	5839	954	2067	4532	4571	-850	-1156	12275	0	12275	2882	15157	50.13
19	4940	119	428	5487	765	1953	4611	4862	-803	-1183	11884	0	11884	2736	14620	50.24
20	4912	325	431	5668	618	2080	5166	5736	-826	-987	13130	0	13130	2737	15867	50.05
21	4821	436	430	5687	647	2096	5236	5870	-904	-957	13369	0	13369	2695	16064	50.01
22	4817	334	430	5581	592	2070	5293	5780	-898	-925	13123	0	13123	2582	15705	50.00
23	4767	608	484	5859	666	2052	5326	5927	-987	-939	13565	0	13565	2507	16072	49.94
24	4758	962	344	6064	598	2038	5280	5911	-1059	-1088	13523	0	13523	2559	16082	50.05
MUs	119.27	10.71	10.83	140.81	21.93	48.81	119.61	123.31	-19.07	-18.74	316.31	0.00	316.31	60.96	377.27	50.00

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 21/May/2013

Position as on 6.30 Hrs of 22/May/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.	
FORCED OUTAGE							
Dabhol 2B	230	03/01/2013	13.29		Continued.	Gas shortage.	
CPP Adani U-2	660	22/04/2013	13.47		Continued.	ID fan problem.	
Dabhol 1A	230	05/05/2013	09.42		Continued.	Gas Shortage.	
Uran Unit 8	108	07/05/2013	00.15		Continued.	Turbine Blade & Mixing Chamber Work Upto 20.5.13.	
Dabhol 2X	290	11/05/2013	04.28		Continued.	Gas Shortage	
Dabhol 2A	230	11/05/2013	04.30		Continued.	Gas Shortage	
CPP WPCL U-3	135	11/05/2013	11.25		Continued.	Maintenance Problem.	
CPP Adani U1	660	17/05/2013	17.38		Continued.	Water Shortage	
Bhusawal Unit 2	210	20/05/2013	14.42		Continued.	ID Fan Vibration problem.	
Bhusawal Unit 5	500	21/05/2013	10.18	21/05/2013	13.45	Drum level very low.	
REL 1	250	21/05/2013	11.43		Continued.	BLR T/L.	

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 21/May/2013

Position as on 6.30 Hrs of 22/May/2013

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
Dhule - S'Sarovar- II	20/05/2013	08.01	21/05/2013	10.03	Jumper tightening at various locations. (Ready for charging at 18.56)
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		
Kolhapur-Solapur (PG) II	16/05/2013	10.46		Continued.	H/T to control Wardha(PG)-Parli load.
Akola - Aurangabad - I	19/05/2013	18.41		Continued.	Heavy Sparking on R Phase Bus-I Isolator Taken on TBC
Kolhapur - Mapusa - II	20/05/2013	17.07	21/05/2013	09.11	H/T for over voltage.
Kolhapur - Mapusa - I	21/05/2013	16.42		Continued.	Over Voltage.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
50MVAR Line Reactor on Bhusawal- Akola at BSL End	04/05/2013	12.05		Continued.	Overhauling of Line Reactor upto 21-5-2013
Babaleshwar - Bhusawal	16/05/2013	09.47		Continued.	For diversion of existing 400KV BSL-BBLR from L.No.36 to 42.Outage for 8 days.
400 KV Main Bus - I @ Aurangabad	20/05/2013	14.53	21/05/2013	20.26	Hot Spot attending work.
Dabhol - Nagothane - I	21/05/2013	08.54	22/05/2013	01.06	Repl.of Cond.& E/W.
400/220 KV 315MVA ICT-II @ Kolhapur	21/05/2013	09.17	21/05/2013	19.47	P.M.Work
400/220KV,500 MVA ICT-III at Nagothane.	21/05/2013	09.28	21/05/2013	19.48	P.M.Work& Testing work.
Newkoyna - Jaigad - I	21/05/2013	09.38	21/05/2013	16.49	Cold washing of insulator strings at Jaigad&Kurdi.
TBC at Dhule	21/05/2013	10.15		Continued.	For checking the wiring of 400KV TBC NT switch and to check the problem while shifting the line through TBC.
Karad-New Koyna II	21/05/2013	22.28	22/05/2013	00.09	To attend hot spot.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Ghodbandar - Bhoisor (MSETCL)	13/04/2013	10.09		Continued.	Mumbai Strengthening Work.
52 B Breaker Interconnector @ Kalwa	21/05/2013	08.01	21/05/2013	13.38	Repl.of CT due to high tandelta.
Karad-Pophali	21/05/2013	08.40	21/05/2013	15.21	Prev.Maintenance.
Bus Section I at ONGC Panvel.	21/05/2013	09.13	21/05/2013	14.15	Repl.of P.T.Isolators.
Talangade - Mumewadi	21/05/2013	09.24	21/05/2013	11.18	Repl.of flashover insulator of B-Ph.
220/132KV 200MVA ICT-I at Chikhali	21/05/2013	09.35	21/05/2013	13.05	Pre.monsoon maint.
220/100 KV 200 MVA ICT-II @ Apta	21/05/2013	11.00	21/05/2013	13.17	P.M.Work
Hinganghat-Bhugaon	21/05/2013	11.14	21/05/2013	13.35	Relay testing work & D/P Bypassed.
220/100KV 200MVA ICT-I at Taloja	21/05/2013	12.05	21/05/2013	16.50	R.M.Work
Voltage Level : 400KV			Outage Type HAND TRIPPED		
400/220 KV 100 MVA	12/07/2012	07.11		Continued.	Main Buchholz prot.operated

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 21/May/2013

Position as on 6.30 Hrs of 22/May/2013

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Spare Unit @ Koradi					
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.	Hand Tripped.
Bhusawal - Deepnagar - I	05/04/2013	09.26		Continued.	Over Voltage.
Bhusawal- Aurangabad	17/05/2013	22.24		Continued.	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.
Pusad-Nanded	21/05/2013	11.09	21/05/2013	13.44	In view of Bhugaon-Hinghat outage.
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.
Karad - Kolhapur - II	20/05/2013	16.26	21/05/2013	07.42	Tripped on Over Voltage.
Karad - Newkoyna - I	20/05/2013	17.48	21/05/2013	06.48	Distance protection.
Lonikand- Koyna Stage IV	21/05/2013	01.14	21/05/2013	07.50	Tripped on distance protection.
Karad-Jaigad I	21/05/2013	01.18	21/05/2013	01.51	Tripped on distance protection.
Karad-New Koyna II	21/05/2013	01.22	21/05/2013	01.46	Tripped on distance protection.
Karad-New Koyna II	21/05/2013	01.55	21/05/2013	07.12	Tripped on distance protection.
Karad-Jaigad I	21/05/2013	02.47	21/05/2013	06.50	Tripped on distance protection.
Wardha-Warora-II	21/05/2013	12.28		Continued.	Dist.protection
Voltage Level : 220KV			Outage Type TRIPPED		
Usmanabad-Paranda	25/04/2013	16.36		Continued.	Distance protection(4 Nos of Tower Collapsed)
Paranda-Barshi	25/04/2013	17.39		Continued.	Distance protection(Ckt Under Breakdown)
Nanded - Parali	20/05/2013	18.05	21/05/2013	02.30	Tripped on distance protection, R-Phase jumper broken at Loc. 310 .
Kandalgaon - Pirangut	21/05/2013	01.45	21/05/2013	09.26	Tripped on distance protection.
Kandalgaon - Sona Alloy	21/05/2013	04.12	21/05/2013	04.40	Tripped on distance protection.
Kandalgaon - Sona Alloy	21/05/2013	05.34	21/05/2013	17.05	Tripped on distance protection.
52A CB Interconnector at Kalwa	21/05/2013	10.55	21/05/2013	11.15	Tripped on load affect.
Koradi-Butibori	21/05/2013	14.18	21/05/2013	15.12	Dist.protection.
Butibori TSS - Butibori(MIDC)	21/05/2013	14.18	21/05/2013	17.54	Dist Protection.
220/66 KV 50 MVA ICT- II @ Pusad	21/05/2013	20.10		Continued.	Diff Protection.
Butibori TSS - Butibori(MIDC)	21/05/2013	20.13	21/05/2013	22.08	To carry isolator operation at Butibori TSS S/S.
Koradi-Butibori	21/05/2013	22.05	21/05/2013	22.10	To carry isolator operation at Butibori TSS S/S.
Voltage Level : 132KV			Outage Type TRIPPED		
Sawda-Raver	21/05/2013	13.47	21/05/2013	13.54	Dist.protection.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 22/May/2013

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	85
Unit 6	210	150
Unit 7	210	150
	620	385
Bhusawal		
Unit 2	210	0
Unit 3	210	140
Unit 4	500	323
Unit 5	500	
	1420	463
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	165
Unit 2	210	165
Unit 3	210	200
Unit 4	210	190
Unit 5	500	450
Unit 6	500	430
Unit 7	500	350
	2340	1950
Paras		
Unit 3	250	230
Unit 4	250	230
	500	460
Khaparkheda		
Unit 1	210	160
Unit 2	210	160
Unit 3	210	160
Unit 4	210	160
Unit 5	500	375
	1340	1015
Nasik		
Unit 3	210	190
Unit 4	210	180
Unit 5	210	195
	630	565
Uran		
All Units	852	460
	852	460
PENCH (MS)		
Pench (MS)	53	
	53	
Koyna		
Stage 1-2	600	600
Stage 4	1000	250
Stage 3	320	240
	1920	1090
Hydro		
KDPH	40	33
VTRNA	60	0

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	60
BHTGR/VEER	21	0
BHIRA T.R.	80	80
RNGR+BHTSA	20	11
BHANDARDRA	45	0
ELDARY	23	0
SMLHY PTN	12	0
GHATGHAR	250	0
	611	184
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	1096
WARDHA	405	325
Adani	1320	
Other CPPs	300	223
	3225	1644
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	250
	500	250
Cent Sect		
Share	3455	5630
	3455	5630