



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

State Load Dispatch Center, Airoli

Daily system Report

for

06/Jan/2011

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 06/Jan/2011 THURSDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	128.645	753.348	1) Madhya Pradesh	40.550	227.486
2) Hydro	11.919	90.051	2) Gujrat	25.420	133.716
3) Gas	15.633	95.288	3) Goa	-6.357	-36.179
Total MSGENCO	156.197	938.687	4) TAPS 1&2 (Inj.)	7.869	47.048
B) OTHERS			5) Pench (Excess)	-0.453	-3.050
1) RGPPL Gas	32.056	200.764	# Total Cent. Sector	67.029	369.021
2) Wind Generation	4.824	26.912	F) Other Exchanges		
3) CPP / IPP	23.446	134.126	1) With TPCL (Excess)	-5.249	-18.099
4) PENCH (MS)	0.453	3.050	G) Bilateral Power *		
C) TPCL & REL			1) MSEDCL Bilateral	12.406	87.549
1) TPCL Thermal	23.860	138.303	Include PX	0.000	0.000
2) TPCL Hydro	4.013	20.434	2) MUMBAI Bilateral	4.145	23.411
TOTAL TPCL	27.873	158.737	Include PX	-1.792	-7.128
3) REL Thermal	12.675	75.725	3) MUMBAI Schedule	4.145	23.411
D) STATE			H) ENERGY CATERED (MUs)		
1) Thermal (A1+C1+C3)	165.180	967.376	1) MSEDCL	278.756	1654.461
2) Hydro (A2+B3+C2)	16.385	113.535	2) TPCL	30.671	170.327
3) Gas (A3+B1)	47.689	296.052	3) REL	15.116	82.218
4) Wind (B2)	4.824	26.912	TOTAL STATE	324.543	1907.006
5) CPP (B3)	23.446	134.126			
TOTAL STATE	257.524	1538.001			

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 11 Hrs	B. Evening Peak at 20 Hrs	C. Night Minimum at 1 Hrs
MSGENCO Thermal	5070	5692	4646
MSGENCO Hydro	977	565	174
MSGENCO Gas	655	638	663
MSGENCO Total Generation	6702	6895	5483
Central Sector Receipt	3572	2960	1731
RGPPL	1335	1303	1376
WIND	121	179	214
CPP / IPP	1017	979	926
Exchange with Mumbai	-372	-354	-104
MSEDCL DEMAND MET	12375	12012	9639
Load Shedding	2106	3425	0
MSEDCL DEMAND (INCL. LS)	14481	15437	9639
TPCL GENERATION	1461	1474	777
REL GENERATION	527	529	529
TPCL+REL DEMAND	2360	2357	1410
STATE DEMAND MET	14735	14369	11049
STATE DEMAND (INCL. LS)	16841	17794	11049
Frequency (Hz)	49.64	49.60	49.85
MSEDCL's Max Demand-Supply Gap (excluding UI, D.A.Power & Unsch.Hyd.Gen)			3014 MW AT 19.00 Hrs
MSEDCL's Dem.-Supply Gap for day (excluding UI, D.A.Power & Unsch.Hyd.Gen)			37.15 MUs.

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.39 Hz at 23.43 Hrs	48.86 Hz at 18.29 Hrs	49.75	2.34 % 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 06/Jan/2011

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 1	1.59	10.19	78	53	75
Unit 2	1.64	6.92	77	57	75
Unit 3	1.72	10.76	78	64	70
Unit 4	1.60	7.85	73	54	70
Unit 5	2.77	20.55	139	62	120
Unit 6	0.00	0.00	0	0	0
Unit 7	3.62	22.92	170	130	160
	12.94	79.20			570
Bhusawal					
Unit 1	0.00	0.00	0	0	0
Unit 2	4.44	14.98	195	160	200
Unit 3	4.52	27.32	205	165	200
	8.96	42.30			400
Parli					
Unit 1	0.00	0.00	0	0	0
Unit 2	0.00	0.00	0	0	0
Unit 3	4.17	21.72	186	146	185
Unit 4	4.44	24.15	195	160	190
Unit 5	4.75	25.02	212	160	190
Unit 6	4.96	28.66	250	9	245
Unit 7	5.10	24.56	261	0	230
	23.42	124.11			1040
Chandrapur					
Unit 1	3.94	22.64	168	146	165
Unit 2	3.55	19.39	164	130	140
Unit 3	4.45	25.42	204	156	200
Unit 4	3.30	23.01	194	0	0
Unit 5	8.00	55.69	470	33	400
Unit 6	9.58	53.88	450	136	440
Unit 7	9.97	58.38	460	340	350
	42.78	258.42			1695
Paras					
Unit 2	0.00	0.00	0	0	0
Unit 3	5.30	28.09	236	205	230
Unit 4	4.69	28.07	228	128	188
	10.00	56.16			418
Khaparkheda					
Unit 1	4.84	28.56	210	180	210
Unit 2	4.67	28.29	206	175	210
Unit 3	4.90	29.20	211	184	210
Unit 4	0.00	12.53	0	0	0
	14.41	98.58			630
Nasik					
Unit 1	2.04	12.30	95	67	81
Unit 2	2.21	12.46	100	80	81
Unit 3	2.88	22.64	140	100	182
Unit 4	4.57	21.03	206	167	192
Unit 5	4.44	26.14	195	163	192
	16.13	94.58			728
Koyna					
Stage 1-2	3.72	22.06	410	35	600
Stage 4	2.09	27.17	637	0	250
Stage 3	1.71	11.18	234	0	320
	7.52	60.41			1170
Kovna 12&4 Total	5.81	49.23			850

Generating unit		Generation				OLC (MW)
		Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Uran						
All Units		15.63	95.29	680	493	650
		15.63	95.29			650
Hydro						
KDPH		0.00	1.26	0	0	0
VTRNA		1.20	7.38	61	0	60
TILLARI		0.32	2.26	60	0	60
BHTGR/VEER		0.13	2.36	6	5	5
BHIRA T.R.		0.24	1.01	81	0	80
RNGR+BHTSA		0.34	2.16	15	13	14
BHANDARDRA		0.00	0.00	0	0	
ELDARY		0.00	0.00	0	0	0
SMLHY PTN		0.66	5.39	28	27	11
GHATGHAR		1.50	7.83	240	0	0
		4.40	29.64			230
PENCH (MS)						
Pench (MS)		0.45	3.05	53	0	
		0.45	3.05			
Wind						
MalharPeth		0.13	1.01			
Vankuswadi		0.42	2.81			
ATIT		0.06	0.52			
Kale		0.17	0.91			
Satara		0.68	1.40			
Shirala		0.19	1.17			
K Mahankal		0.03	1.89			
Supa		0.11	0.73			
Vita		1.00	4.82			
Dondaicha		1.30	6.06			
Sakri		0.16	1.01			
Nandurbar		0.12	0.52			
Khandke		0.27	2.60			
Khaparale		0.17	1.46			
		4.82	26.91			
CPP						
TOTAL CPP		23.45	134.13			
		23.45	134.13			
Dabhol						
RGPPL		32.06	200.76	1385	1289	1450
		32.06	200.76			1450
Tata						
Trombay 4		0.00	0.00	0	0	0
Trombay 5		10.19	56.02	490	280	500
Trombay 6		3.64	22.73	160	150	500
Trombay 7A		2.96	17.87	128	120	120
Trombay 7B		1.64	9.84	69	68	60
Trombay 8		5.43	31.85	252	154	250
TATA Hydro		4.01	20.43	393	0	447
		27.87	158.74			1877
REL						
1&2		12.68	75.72	531	526	500
		12.68	75.72			500
Cent Sect						
Share						3485
						3485
MS PG CL	Thermal	128.64	753.35			5481
	Thml+Gas	144.28	848.64			6131
	Hydro	11.92	90.05			1400
	Total	156.20	938.69			7531
State Total		257.52	1538.00			14843

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 06/Jan/2011

TIME SR. NO.	MSPGCL GEN.			TOTAL	RGPPL	WIND	CPP / IPP	CS SHARE	CS RECPT	Mum SCH.	Mum NET EXCH.	MSEDCL DEMAND MET	# LOAD SHED.	MSEDCL DEMAND WITH LS	TPCL + REL DEMAND	STATE DEM. WITH LS	FREQ. (Hz)
	THM	HY	GAS														
1	4646	174	663	5483	1376	214	926	2737	1731	-47	-104	9639	0	9639	1410	11049	49.85
2	4807	154	669	5630	1382	249	919	2595	1701	-47	-13	9868	0	9868	1317	11185	49.96
3	4973	154	676	5803	1385	260	921	2391	1773	-22	48	10190	0	10190	1258	11448	50.04
4	5043	149	678	5870	1381	262	927	2474	1908	-22	78	10426	0	10426	1230	11656	49.96
5	5334	149	678	6161	1381	271	926	2505	1954	-22	75	10768	0	10768	1236	12004	49.92
6	5481	149	679	6309	1380	233	943	2832	2390	-22	24	11279	1430	12709	1333	14042	49.99
7	5459	189	676	6324	1377	234	1006	2954	2758	104	18	11717	1688	13405	1543	14948	49.78
8	5501	597	680	6778	1372	191	997	3024	3093	50	-59	12372	1700	14072	1671	15743	49.67
9	5444	1083	662	7189	1371	162	1011	3153	2886	-48	-145	12474	1702	14176	1911	16087	49.60
10	5265	1397	662	7324	1365	123	1021	3334	3112	-121	-216	12729	1824	14553	2173	16726	49.55
11	5070	977	655	6702	1335	121	1017	3658	3572	-301	-372	12375	2106	14481	2360	16841	49.64
12	4923	871	653	6447	1309	105	1024	3677	3663	-301	-408	12157	2194	14351	2374	16725	49.62
13	5114	772	656	6542	1289	97	1023	3689	3740	-301	-392	12352	2203	14555	2319	16874	49.62
14	5447	562	640	6649	1304	79	1020	3689	3695	-301	-395	12403	2133	14536	2234	16770	49.58
15	5546	662	645	6853	1304	100	1021	3561	3466	-301	-392	12403	2153	14556	2268	16824	49.59
16	5593	612	639	6844	1304	94	1013	3434	3160	-301	-392	12074	2144	14218	2272	16490	49.54
17	5624	617	634	6875	1304	103	1002	3435	3367	-301	-392	12259	2143	14402	2270	16672	49.64
18	5676	602	638	6916	1303	128	1009	3437	3125	-301	-389	12092	2168	14260	2258	16518	49.63
19	5649	888	644	7181	1303	127	991	3342	3075	-325	-402	12312	2962	15274	2367	17641	49.63
20	5692	565	638	6895	1303	179	979	3465	2960	-243	-354	12012	3425	15437	2357	17794	49.60
21	5733	161	663	6557	1305	226	951	3378	2614	-161	-251	11452	3248	14700	2196	16896	49.82
22	5644	147	673	6464	1306	364	950	3520	2537	-270	-301	11370	237	11607	1956	13563	49.84
23	5637	142	639	6418	1308	431	928	3440	2573	-339	-317	11368	0	11368	1817	13185	49.90
24	5346	146	493	5985	1309	470	921	2881	2173	-197	-198	10663	0	10663	1667	12330	50.05
MUs	128.65	11.92	15.63	156.20	32.06	4.82	23.45	76.60	67.03	-4.14	-5.25	278.75	35.46	314.21	45.80	360.01	49.75

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 for export)
Without Applying Load Diversity Factor

State Load Dispatch Center,Airoli (MSETCL)
Details of Generating Unit Outages/Trippings for 06/Jan/2011

Position as on 6.30 Hrs of 07/Jan/2011

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE							
Cent_Sect KARPR1	220	01/07/2008	00:10		Continued.	COH(En-Mass Coolant Clanel Replacement)	30/01/2011
Parli Unit 2	30	11/12/2010	23.51		Continued.	Annual Overhaul.	
Koradi Unit 6	210	26/12/2010	09.23		Continued.	Annual Overhaul.	27/01/2011
Khaparkheda Unit 4	210	03/01/2011	15.26		Continued.	Capital Overhaul.	07/02/2011
Dabhol 3B	230	04/01/2011	16:44		Continued.	Rehabilitation work.	05/03/2011
Tata Trombay 6	500	07/01/2011	00.04		Continued.	Capital overhaul.	31/01/2011
Uran Unit A0	120	07/01/2011	05.57		Continued.	Main T/F oil leakage attending work.	14/01/2011
Uran Unit 5	108	07/01/2011	06.00		Continued.	Filter replacement work.	14/01/2011
FORCED OUTAGE							
Uran Unit 2	60	04/10/2008	19.00		Continued.	Gas Restriction	
Uran Unit 4	60	01/04/2009	00:00		Continued.	Gas Restriction	
Uran Unit 3	60	16/06/2010	19.52		Continued.	R.M.Work.	
Paras Unit 2	55	16/11/2010	23.00		Continued.	Boiler tube validity expired.	
Parli Unit 1	30	15/12/2010	04.31		Continued.	W/Dn.	
Bhusawal Unit 1	58	15/12/2010	10.40		Continued.	Coal Mill problem.	
Chandrapur Unit 5	500	05/01/2011	10.54	06/01/2011	00.54	LBB Operated at GT-4.	
Koyna Unit 10	80	05/01/2011	21.47	06/01/2011	11.45	Tripped,LA Burst R-Ph.	
Chandrapur Unit 4	210	06/01/2011	05.27	06/01/2011	10.31	AVR Fan Trip	
Parli Unit 6	250	06/01/2011	10.12	06/01/2011	11.55	Furnance Pressure high	
Koyna Unit 3	75	06/01/2011	15.45		Continued.	Tripped on mechanical protection	08/01/2011
Parli Unit 7	250	06/01/2011	23.07	07/01/2011	01.57	Low Drum Level	
Uran Unit 6	108	06/01/2011	23.15		Continued.	Tube leakage.	11/01/2011

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 06/Jan/2011

Position as on 6.30 Hrs of 07/Jan/2011

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Kolhapur - Mapusa - I	30/12/2010	22.48	06/01/2011	10.45	Over Voltage
Dhule-S'Sarovar I	05/01/2011	15.59	06/01/2011	10.50	Over Voltage.
Akola - Wardha - I	05/01/2011	21.25		Continued.	Over Voltage.
Kolhapur - Mapusa - II	06/01/2011	22.27		Continued.	Over Voltage.
Dhule-Sar'Sarovar - I	06/01/2011	23.30		Continued.	Over Voltage
Voltage Level : 400KV			Outage Type TRIPPED		
Koradi-Satpur	03/01/2011	15.29		Continued.	Main Bkr Trip Ckt Faulty.Ckt is on TBC.
Voltage Level : 220KV			Outage Type TRIPPED		
Mudsungli-Amona	06/01/2011	19.07	06/01/2011	19.58	Distance protection.
Amona-ponda- I	06/01/2011	19.15		Continued.	Distance protection.
Tillari-Amona-II	06/01/2011	19.15	06/01/2011	21.36	Pole descrepancy At Amona.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
400/220 KV 315MVA ICT-II @ Karad	04/01/2011	19.38		Continued.	H.V.Side BKR Repl.Work taken on TBC.
Bus Coupler @ Chandrapur	05/01/2011	08.57	06/01/2011	19.03	Tan delta and Maintenance work.
Main Bus-II At New Koyna	06/01/2011	00.30	06/01/2011	14.15	Repair of B ph.bus-II broekn conductor.
80 MVAR Reactor @ Kharghar	06/01/2011	09.22	06/01/2011	17.06	Testing work.
400/220 KV 500 MVA ICT - II @ Jejuri	06/01/2011	10.20	06/01/2011	22.33	Testing work.
Parli - Lamboti	06/01/2011	10.55	06/01/2011	13.48	Loc.No.216 'R"ph insulator replacement.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Kalwa-Mahape	27/11/2010	15.17		Continued.	Stringing Work of Mumbai System.
220/100KV 125 MVA ICT-III @ Kalwa	14/12/2010	08.39		Continued.	For Augumentation from 125MVA to 200MVA.
Babaleshwar - Chalisgaon	15/12/2010	13.42		Continued.	Conversion of S/C to D/C(Six Month Outage.)Up to 09.05.2011.
220/132 KV 150MVA ICT-II @ Dhule	21/12/2010	13.34		Continued.	Replacement by 200 MVA ICT UPTO 20.01.11
220/132 KV 100 MVA ICT-II @ Babaleshwar	25/12/2010	12:15		Continued.	Augmentation by 200MVA ICT
220/132 KV 100 MVA ICT-II @ Bhusawal	02/01/2011	08.58		Continued.	Replacement of 100 MVA By 200 MVA ICT(Upto 23.01.2011).
Babaleshwar - Alephata	06/01/2011	08.25	06/01/2011	17.08	Replacement of insulator.
220/132 KV 200 MVA ICT @ Kalmeshwar	06/01/2011	08.27	06/01/2011	13.05	To attend low pressure of N2 gas.
Girivali - Parli - III	06/01/2011	09.10		Continued.	Replacement of Aux.and line isolator.
Baramati-Kurkumb	06/01/2011	09.50	06/01/2011	14.25	Q.M.Work.
Uran-Kharghar-II	06/01/2011	10.12	06/01/2011	17.43	Insulator replacement work.
220/100 KV125 MVA ICT-III @Trombay	06/01/2011	12.03		Continued.	Augmentation by New 200 MVA ICT up to 20.03.2011.
Ambazari-Wardha	06/01/2011	14.19	06/01/2011	17.55	Earth wire replacement.
Abhijeet-Wardha Ckt.	06/01/2011	14.26	06/01/2011	17.51	Earth wire replacement.

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 06/Jan/2011

Position as on 6.30 Hrs of 07/Jan/2011

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
220/132 KV 200 MVA ICT-II @ Kalmeshwar	06/01/2011	14.52	06/01/2011	16.31	Oil top up work.
Voltage Level : 100KV			Outage Type PLANNED OUTAGE		
Chinchwad - Talegaon	06/01/2011	08.10	06/01/2011	17.59	Errection of Tower.
Voltage Level : 220KV			Outage Type FORCED OUTAGE		
Ghodbandar-Varsowa	05/01/2011	14.00	06/01/2011	00.45	To attend oil leakage of Y ph.CT.
Pedambe-Newkoyna	06/01/2011	08.25	06/01/2011	13.57	R ph.WT replacement at Pedambe.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
400/11.5KV 90 MVA STN T/F- V @ 400 KV Chandrapur	12/12/2010	08.00		Continued.	To Attend Oil Leakage
Bhusawal- Aurangabad	05/01/2011	19.48	06/01/2011	05.56	Over Voltage.
Karad - Kolhapur - II	05/01/2011	22.17	06/01/2011	07.50	Over Voltage.
Karad-Lamboti	05/01/2011	23.37	06/01/2011	05.52	Over Voltage.
400/220KV 315MVA ICT-II @ New Koyna	06/01/2011	00.15	06/01/2011	02.25	H/T for bus changeover bus-II to bus-I
Karad - Kolhapur - I	06/01/2011	23.11		Continued.	Over voltage.
Bhusawal- Aurangabad	06/01/2011	23.27	07/01/2011	05.49	Over Voltage
Lonikand- Koyna Stage IV	06/01/2011	23.57		Continued.	Over Voltage.
Voltage Level : 100KV			Outage Type HAND TRIPPED		
Kalwa - Salshet - I	31/12/2010	18.12		Continued.	H/T from Kalwa end
Voltage Level : 220KV			Outage Type TRIPPED		
Pophali - Kandalgaon - I	05/01/2011	11.55	06/01/2011	08.36	Y ph.wave trap conductor snap at Pophali.
220/33KV 50 MVA T/F-II at Karkamb	05/01/2011	12.01		Continued.	X'mer Internal fault.
Wardha-RLY TSS I	06/01/2011	03.50	06/01/2011	05.28	Tripped low air pressure alarm.
Kalwa - Ghatghar	07/01/2011	05.30	07/01/2011	06.11	Distance protection.
Voltage Level : 132KV			Outage Type TRIPPED		
Pusad-Jambazar	06/01/2011	08.46	06/01/2011	08.55	Distance Protection

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 07/Jan/2011

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 1	105	70
Unit 2	105	70
Unit 3	105	70
Unit 4	105	70
Unit 5	200	140
Unit 6	210	0
Unit 7	210	150
	1040	570
Bhusawal		
Unit 1	58	0
Unit 2	210	200
Unit 3	210	200
	478	400
Parli		
Unit 1	30	0
Unit 2	30	0
Unit 3	210	160
Unit 4	210	195
Unit 5	210	185
Unit 6	250	200
Unit 7	250	200
	1190	940
Chandrapur		
Unit 1	210	165
Unit 2	210	150
Unit 3	210	190
Unit 4	210	200
Unit 5	500	450
Unit 6	500	450
Unit 7	500	400
	2340	2005
Paras		
Unit 2	55	0
Unit 3	250	220
Unit 4	250	220
	555	440
Khaparkheda		
Unit 1	210	210
Unit 2	210	210
Unit 3	210	210
Unit 4	210	0
	840	630
Nasik		
Unit 1	120	81
Unit 2	120	81
Unit 3	210	152
Unit 4	210	192
Unit 5	210	182
	870	688
Koyna		
Stage 1-2	600	530
Stage 4	1000	250
Stage 3	320	320
	1920	1100
Uran		
All Units	852	480

Generating unit	Derated Capacity (MW)	OLC (MW)
	852	480
Hydro		
KDPH	40	0
VTRNA	60	60
TILLARI	60	60
BHTGR/VEER	21	5
BHIRA T.R.	80	80
RNGR+BHTSA	20	14
BHANDARDRA	45	0
ELDARY	23	0
SMLHY PTN	12	11
GHATGHAR	250	0
	611	230
PENCH (MS)		
Pench (MS)	53	
	53	
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		
TOTAL CPP	0	
	0	
Dabhol		
RGPPL	960	1500
	960	1500
Tata		
Trombay 4	150	0
Trombay 5	500	500
Trombay 6	500	0
Trombay 7A	120	120
Trombay 7B	60	60
Trombay 8	250	250
TATA Hydro	444	447
	2024	1377
REL		
1&2	500	500
	500	500
Cent Sect		
Share	3143	3612
	3143	3612