



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

State Load Dispatch Center, Airoli

Daily system Report

for

23/Feb/2014

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 23/Feb/2014 SUNDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	127.845	2830.001	1) Gujrat	2.177	112.895
2) Hydro	15.809	408.595	2) Madhya Pradesh	21.459	395.863
3) Gas	7.666	152.026	3) Chattisgarh	9.730	205.760
Total MSGENCO	151.320	3390.622	4) Maharashtra Net	82.108	1967.660
B) 1) JSW JAIGAD	18.898	437.448	(Incl. 765kV Solapur-Raichur)	-2.239	-15.523
2) WPCL	2.294	62.645	5) Goa	-5.780	-130.311
3) ADANI	28.607	685.347	6) TAPS 1&2 Injection	7.559	162.107
4) Other CPP / IPP	17.295	415.008	7) RGPPL Injection	0.000	0.000
5) Wind Generation	3.484	130.928	8) Pench (Excess)	-0.201	-9.025
6) PENCH (MS)	0.201	9.077	# Total Cent. Sector	117.052	2704.949
7) SOLAR	0.985	24.364	F) Other Exchanges		
C) 1) TPCL Thermal	13.903	339.086	1) With TPCL (Excess)	-15.709	-389.768
2) TPCL Hydro	0.203	82.082	G) Bilateral Power *		
TOTAL TPCL	14.106	421.168	1) MSEDCL Bilateral	14.433	338.020
3) REL Thermal	11.523	269.421	Include PX	-0.983	-4.606
D) STATE			2) MUMBAI Bilateral	14.580	328.768
1) Thermal (A1+C1+C3)	153.271	3438.508	Include PX	0.873	103.605
2) Hydro (A2+B6+C2)	16.213	499.754	3) MUMBAI Schedule	14.580	334.287
3) Gas (A3)	7.666	152.026	H) ENERGY CATERED (MUs)		
4) Wind (B5)	3.484	130.928	1) MSEDCL	324.427	7470.620
5) CPP/IPP (B1+B2+B3+B4)	67.094	943.708	2) TPCL	26.463	697.443
6) SOLAR (B7)	0.985	24.364	3) REL	14.876	382.882
TOTAL STATE	248.713	5189.288	TOTAL STATE	365.766	8550.945

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 17 Hrs	C. Night Minimum at 4 Hrs
MSGENCO Thermal	5771	5285	5253
MSGENCO Hydro	1739	589	144
MSGENCO Gas	305	307	334
MSGENCO Total Generation	7815	6181	5731
Central Sector Receipt	4959	5106	4598
WIND	133	86	117
CPP / IPP	2892	2825	2757
SOLAR	152	61	0
Exchange with Mumbai	-720	-607	-347
MSEDCL DEMAND MET	15234	13652	12856
Load Shedding	884	570	16
MSEDCL DEMAND	16118	14222	12872
TPCL GENERATION	707	606	498
R-INFRA GENERATION	522	516	521
TPCL+R-INFRA DEMAND	1949	1729	1366
STATE DEMAND MET	17183	15381	14222
STATE DEMAND	18067	15951	14238
Frequency (Hz)	49.98	50.08	50.23

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.57 Hz at 17:55 Hrs	49.71 Hz at 08:42 Hrs	50.11	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 23/Feb/2014

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	0.49	50.03	130	0	0
Unit 6	2.86	22.62	156	0	120
Unit 7	3.68	81.95	165	135	130
Total	7.03	154.60			250
Bhusawal					
Unit 2	0.00	72.07	0	0	0
Unit 3	3.70	85.69	165	115	160
Unit 4	9.44	210.30	505	315	344
Unit 5	7.82	156.20	380	260	344
Total	20.96	524.27			848
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	3.88	67.53	178	152	154
Unit 5	3.74	87.85	164	148	152
Unit 6	4.84	116.25	250	188	196
Unit 7	4.96	113.30	250	188	190
Total	17.42	384.94			692
Chandrapur					
Unit 1	3.30	74.75	142	131	140
Unit 2	0.52	0.52	116	0	0
Unit 3	3.94	97.19	188	120	140
Unit 4	2.31	103.75	200	0	200
Unit 5	8.94	32.59	432	348	370
Unit 6	9.68	197.91	435	363	410
Unit 7	8.79	188.79	405	307	400
Total	37.49	695.50			1660
Paras					
Unit 3	4.96	119.34	229	181	230
Unit 4	5.07	109.98	231	195	210
Total	10.03	229.32			440
Khaparkheda					
Unit 1	3.44	92.53	170	115	180
Unit 2	4.02	84.31	185	150	180
Unit 3	0.00	93.61	0	0	0
Unit 4	4.20	98.89	184	166	190
Unit 5	10.33	238.98	500	377	500
Total	22.00	608.31			1050
Nasik					
Unit 3	4.30	56.57	195	165	190
Unit 4	4.34	86.25	194	173	190
Unit 5	4.26	90.25	191	165	190
Total	12.91	233.06			570
Uran					
All Units	7.67	152.03	338	303	320
Total	7.67	152.03			320
PENCH (MS)					
Pench (MS)	0.20	9.08	46	0	0
Total	0.20	9.08			0
Koyna					
Stage 1-2	3.07	82.10	290	35	450
Stage 4	5.76	162.56	777	0	250
Stage 3	1.96	52.34	240	0	320
Kovna 12&4 Total	8.83	244.66			700

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	10.79	297.00			1020
Hydro					
KDPH	0.45	12.18	19	18	18
VTRNA	0.00	0.00	0	0	0
TILLARI	0.38	9.15	63	0	60
BHTGR/VEER	0.00	1.24	0	0	2
BHIRA T.R.	0.17	2.80	41	0	40
RNGR+BHTSA	0.36	7.97	15	14	15
BHANDARDRA	0.86	4.07	36	35	24
ELDARY	0.00	5.34	0	0	0
SMLHY PTN	0.76	22.95	39	29	20
GHATGHAR	2.05	45.89	250	0	0
Total	5.02	111.60			179
Wind					
MalharPeth	0.08	4.67			
Vankuswadi	0.20	8.68			
ATIT	0.01	1.38			
Kale	0.04	2.97			
Satara	0.67	35.87			
Shirala	0.04	3.37			
K Mahankal	0.02	0.83			
Supa	0.05	2.31			
Vita	0.83	19.84			
Dondaicha	1.12	34.18			
Sakri	0.12	4.80			
Nandurbar	0.10	3.17			
Khandke	0.15	4.46			
Khaparale	0.05	4.39			
Total	3.48	130.93			
CPP					
JSW JAIGAD	18.90	437.45	871	733	805
WARDHA	2.29	62.64	97	94	95
Adani	28.61	685.35	1269	1002	1234
Other CPPs	17.30	415.01			465
Total	67.09	1600.45			2599
SOLAR					
Total	0.98	23.33			
Total	0.98	23.33			
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	9.56	237.07	502	316	500
Trombay 6	0.00	0.00	0	0	0
Trombay 7A	2.75	65.02	115	114	120
Trombay 7B	1.60	36.99	67	66	60
Trombay 8	0.00	0.00	0	0	0
TATA Hydro	0.20	82.08	77	0	447
Total	14.11	421.17			1127
REL					
1&2	11.52	269.42	525	388	500
Total	11.52	269.42			500
Cent Sect					
Share					4998
Total					4998
MS PG CL	Thermal	127.84	2830.00		5510
	Thml+Gas	135.51	2982.03		5830
	Hydro	15.81	408.60		1199
	Total	151.32	3390.62		7029
State Total		248.71	5189.29		16253

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 23/Feb/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	5364	154	335	5853	97	2806	0	4483	5030	-595	-732	13054	4	13058	1617	14675	50.07
2	5171	389	335	5895	107	2772	0	4318	4616	-536	-585	12805	16	12821	1473	14294	50.10
3	5259	214	338	5811	114	2768	0	4268	4637	-485	-418	12912	16	12928	1407	14335	50.19
4	5253	144	334	5731	117	2757	0	4224	4598	-443	-347	12856	16	12872	1366	14238	50.23
5	5207	169	326	5702	128	2739	0	4312	4800	-467	-354	13015	17	13032	1375	14407	50.12
6	5191	184	330	5705	164	2767	0	4732	5169	-488	-425	13390	133	13523	1447	14970	50.17
7	5334	304	329	5967	193	2819	0	4877	5340	-537	-455	13891	530	14421	1508	15929	50.10
8	5417	504	327	6248	188	2835	9	4895	5001	-572	-473	13818	947	14765	1566	16331	50.07
9	5546	1035	325	6906	197	2888	48	4894	5042	-571	-493	14615	837	15452	1682	17134	49.93
10	5698	1504	317	7519	187	2928	97	4934	4967	-646	-612	15113	659	15772	1825	17597	49.94
11	5767	1511	312	7590	215	2907	127	4982	5057	-722	-705	15202	733	15935	1924	17859	50.02
12	5771	1739	305	7815	133	2892	152	4966	4959	-751	-720	15234	884	16118	1949	18067	49.98
13	5504	1653	304	7461	72	2885	148	4976	5095	-733	-709	14952	1027	15979	1918	17897	50.05
14	5474	1449	303	7226	49	2708	137	4952	5338	-694	-628	14830	855	15685	1833	17518	50.12
15	5438	1521	303	7262	32	2690	113	4926	5140	-630	-578	14659	630	15289	1782	17071	50.16
16	5399	1301	307	7007	61	2810	75	4917	5180	-591	-531	14602	575	15177	1734	16911	50.13
17	5285	589	307	6181	86	2825	61	4906	5106	-576	-607	13652	570	14222	1729	15951	50.08
18	5069	195	314	5578	97	2805	17	4490	4581	-519	-843	12235	484	12719	1746	14465	50.20
19	5100	195	315	5610	98	2874	1	4462	4430	-595	-883	12132	85	12217	1851	14068	50.10
20	5364	205	317	5886	136	2802	0	4997	4755	-765	-782	12843	87	12930	2033	14963	50.21
21	5136	270	318	5724	201	2620	0	4673	5142	-709	-980	12718	57	12775	2044	14819	50.06
22	5067	296	321	5684	226	2746	0	4210	4511	-664	-1078	12116	42	12158	1974	14132	50.13
23	5051	152	322	5525	305	2829	0	4164	4233	-682	-954	11938	35	11973	1846	13819	50.08
24	4980	132	322	5434	281	2622	0	4297	4325	-611	-817	11845	27	11872	1709	13581	50.33
MUs	127.84	15.81	7.67	151.32	3.48	67.09	0.98	111.86	117.05	-14.58	-15.71	324.43	9.27	333.69	41.34	375.03	50.11

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 23/Feb/2014

Position as on 6.30 Hrs of 24/Feb/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	
Chandrapur Unit 2	210	14/01/2014	12.38	23/02/2014	13.12	AOH	
Koyna Unit 2	75	10/02/2014	12.10		Continued.	Pressure Shaft work	01/03/2014
Koyna Unit 1	75	10/02/2014	12.25		Continued.	Pressure Shaft work	01/03/2014
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.	
Uran Unit B0	120	29/01/2014	17.50		Continued.	Gas Shortage.	
Uran Unit 7	108	29/01/2014	18.05		Continued.	Gas Shortage.	
CPP WPCL U-1	135	30/01/2014	12.45		Continued.	turbine vibration	
CPP WPCL U-4	135	12/02/2014	16.53		Continued.	Esp Prob.	
CPP Adani U1	660	15/02/2014	20.59		Continued.	Turbine Problem.	
CPP WPCL U-2	135	18/02/2014	00.02		Continued.	Ash Conveying problem	
Koradi Unit 6	210	19/02/2014	23.55	23/02/2014	02.15	Electrical Board Earth Fault.	
Khaparkheda Unit 3	210	22/02/2014	14.48		Continued.	BLR T/L.	
CPP JSW (J) U4	300	22/02/2014	19.30		Continued.	Non Schedule.	
Bhusawal Unit 2	210	22/02/2014	3.01		Continued.	PA fan temp.high	
Koradi Unit 5	200	23/02/2014	04.04		Continued.	ID Fan Problem.	
Chandrapur Unit 4	210	23/02/2014	14.04		Continued.	PA Fan Problem.	
Bhusawal Unit 3	210	24/02/2014	00.57		Continued.	Drum level high.	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 23/Feb/2014

Position as on 6.30 Hrs of 24/Feb/2014

Name of Line	Tripped Date	Tripped Time	Synchronised Date	Synchronised Time	Reason of Outage
InterState					
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Borivali -Tarapur	07/12/2013	10.15		Continued.	MUMBAI STRENGTHENING WORK
Mahalakshmi - Amona	23/02/2014	09.10	23/02/2014	20.12	Line Maint.Work.
Tillary-Amona	23/02/2014	09.15	23/02/2014	19.40	Restranging of new earth shield wire.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
A'bad-Talegaon PG-1	21/02/2014	11.17		Continued.	over voltage
Kolhapur - Mapusa - II	22/02/2014	17.15	23/02/2014	09.11	Over Voltage.
Kolhapur - Mapusa - I	23/02/2014	16.07		Continued.	Over Voltage.
Dhule-Sar'Sarovar - I	23/02/2014	22.02	24/02/2014	06.07	Over Voltage.
Voltage Level : 400KV			Outage Type TRIPPED		
Karad - Solapur (PGCIL)	23/02/2014	18.00		Continued.	Over Voltage.
Voltage Level : 220KV			Outage Type TRIPPED		
Bhoisor - Bhoisor PGCIL-II	23/02/2014	17.00	23/02/2014	17.19	Bhoisor II end only.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
400/220KV 500MVA ICT-II at Lonikand-II	21/02/2014	16.40	21/02/2014	Continued.	attend y-ph lv ct oil leakage
Lonikand Ckt.I Main CB.at Lonikand II	22/02/2014	1032		Continued.	Repl.of CB under Jica II,line taken on TBC up to 27.02.14
400/220 KV 600 MVA ICT-II @ Kalwa	23/02/2014	08.16	23/02/2014	17.36	Testing & Maint.work.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Pusad-Nanded	05/12/2013	06.03		Continued.	220KV Ghatodi S/S LILO Work.
Ghodbandar - Bhoisor (MSETCL)	07/12/2013	10.38		Continued.	MUMBAI STRENGTHENING WORK
Borivali - Ghodbandar - II	05/02/2014	10.14		Continued.	Tower Erection of Loc.8 & M/C Stringing.
Bhusawal - Chalisgaon - II	21/02/2014	9.01		Continued.	restringing work
Aarey - Borivali	23/02/2014	08.28	23/02/2014	17.49	A.M.Work
Kalwa - Salshet - IV	23/02/2014	09.09	23/02/2014	13.56	Closer Inspection.
Trombay-Mulund	23/02/2014	14.35	23/02/2014	19.34	Insulator replacement.
Voltage Level : 100KV			Outage Type PLANNED OUTAGE		
Kolshet-Vasai	23/02/2014	09.37	23/02/2014	18.15	Repl.of old insulator.
Borivali - Tata	23/02/2014	10.19	23/02/2014	11.58	Bus outage at Tata-Borivali.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Dabhol - Nagothane - I	05/02/2014	17.37		Continued.	Over Voltage.
New Koyna - Dabhol - I	06/02/2014	00.02		Continued.	Over Voltage.(RFC 20.35 Hrs on 16.02.14)
Karad-Kolhapur-II	22/02/2014	16.16	23/02/2014	07.20	Over Voltage.
Karad-Jaigad I	22/02/2014	17.10	23/02/2014	07.31	Over Voltage.
Bhusawal- Aurangabad	22/02/2014	20.45	23/02/2014	08.50	Over Voltage.
Lonikand- Koyna Stage IV	23/02/2014	01.36	23/02/2014	08.18	Over Voltage.
Karad-Kolhapur-II	23/02/2014	16.02		Continued.	Over Voltage.
Karad-Jaigad I	23/02/2014	16.11		Continued.	Over Voltage.
Lonikand- Koyna Stage IV	23/02/2014	22.00		Continued.	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 23/Feb/2014

Position as on 6.30 Hrs of 24/Feb/2014

Name of Line	Tripped Date	Tripped Time	Synchronised Date	Synchronised Time	Reason of Outage
Chikhali - Jalna - II	10/02/2014	19.10		Continued.	To avoid O/L Paras-Chikhali line
Babaleshwar - Ranjangaon	23/02/2014	09.35	23/02/2014	17.10	To control BBLSR ICT loading.
Voltage Level : 400KV			Outage Type TRIPPED		
Warora- Tirora -II	23/02/2014	16.54	23/02/2014	20.54	Dist.Prot.R-Ph E/F.
Voltage Level : 220KV			Outage Type TRIPPED		
Talandge - Sawantwadi - II.	29/10/2013	17.30		Continued.	Dist Prot.
Pusad - Bhugaon	23/02/2014	15.28	23/02/2014	15.40	Dist.Prot.
Khaperkheda-Purti	23/02/2014	15.46		Continued.	3Normal Towers Bend Near Tatol Due to Stormy Weather.
K'Kheda-Butobori III	23/02/2014	15.46		Continued.	3Normal Towers Bend Near Tatol Due to Stormy Weather.
Kanhan - Bhandara - I	23/02/2014	16.21		Continued.	Dist.Prot.Z-I.
Voltage Level : 132KV			Outage Type TRIPPED		
Pusad - Digras	23/02/2014	15.28	23/02/2014	15.43	Dist.Prot.
Pusad - Gunj	23/02/2014	15.28	23/02/2014	15.44	Dist.Prot.
Kalmeshwar - Saoner - I	23/02/2014	15.46		Continued.	Dist.Prot.Z-I.
Kanhan - Mouda	23/02/2014	16.35		Continued.	Stormy Weather 1Tower bend near Tarsa Village.
Bhandara-Mouda	23/02/2014	16.35		Continued.	Stormy Weather 1Tower bend near Tarsa Village.
Waghala-Jangamwadi I	23/02/2014	18.40	23/02/2014	19.00	Dist.Prot.
Waghala-Jangamwadi II	23/02/2014	18.40	23/02/2014	19.00	Dist.Prot.
Girwali - Latur MIDC	23/02/2014	20.13	23/02/2014	20.29	Dist.Prot.Z-I.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 24/Feb/2014

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	0
Unit 6	210	150
Unit 7	210	160
	620	310
Bhusawal		
Unit 2	210	0
Unit 3	210	0
Unit 4	500	500
Unit 5	500	344
	1420	844
Parli		
Unit 3	210	0
Unit 4	210	160
Unit 5	210	150
Unit 6	250	185
Unit 7	250	190
	1130	685
Chandrapur		
Unit 1	210	140
Unit 2	210	120
Unit 3	210	190
Unit 4	210	0
Unit 5	500	400
Unit 6	500	400
Unit 7	500	350
	2340	1600
Paras		
Unit 3	250	220
Unit 4	250	220
	500	440
Khaparkheda		
Unit 1	210	180
Unit 2	210	180
Unit 3	210	0
Unit 4	210	190
Unit 5	500	500
	1340	1050
Nasik		
Unit 3	210	190
Unit 4	210	190
Unit 5	210	190
	630	570
Uran		
All Units	852	320
	852	320
PENCH (MS)		
Pench (MS)	53	
	53	
Koyna		
Stage 1-2	600	450
Stage 4	1000	250
Stage 3	320	320
	1920	1020
Hydro		
KDPH	40	18
VTRNA	60	0

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	60
BHTGR/VEER	21	0
BHIRA T.R.	80	40
RNGR+BHTSA	20	15
BHANDARDRA	45	26
ELDARY	23	0
SMLHY PTN	12	20
GHATGHAR	250	0
	611	179
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	825
WARDHA	405	95
Adani	1980	1234
Other CPPs	300	465
	3885	2619
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	5276
	3455	5276