



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

State Load Dispatch Center, Airoli

Daily system Report

for

16/Oct/2013

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 16/Oct/2013 WEDNESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	106.946	1538.918	1) Gujrat	12.150	173.600
2) Hydro	12.489	196.911	2) Madhya Pradesh	15.613	286.396
3) Gas	8.018	168.126	3) Chattisgarh	8.670	143.910
Total MSGENCO	127.453	1903.955	4) Maharashtra	61.838	1018.589
B) 1) JSW JAIGAD	25.012	355.010	5) Goa	-6.119	-87.689
2) WPCL	5.503	123.925	6) TAPS 1&2 Injection	7.707	95.216
3) ADANI	38.860	527.160	7) RGPPL Injection	0.000	0.000
4) Other CPP / IPP	8.793	158.324	8) Pench (Excess)	-0.870	-13.912
5) Wind Generation	1.887	122.860	# Total Cent. Sector	98.989	1616.110
6) PENCH (MS)	0.870	13.912	F) Other Exchanges		
C) TPCL & REL			1) With TPCL (Excess)	-19.627	-358.917
1) TPCL Thermal	20.415	314.768	G) Bilateral Power *		
2) TPCL Hydro	4.714	53.919	1) MSEDCL Bilateral	22.231	376.641
TOTAL TPCL	25.129	368.687	Include PX	0.000	-5.659
3) REL Thermal	11.887	186.677	2) MUMBAI Bilateral	16.825	304.937
D) STATE			Include PX	3.117	75.430
1) Thermal (A1+C1+C3)	139.248	2040.363	3) MUMBAI Schedule	16.825	305.097
2) Hydro (A2+B5+C2)	18.073	264.742	H) ENERGY CATERED (MUs)		
3) Gas (A3)	8.018	168.126	1) MSEDCL	287.740	4462.339
4) Wind (B4)	1.887	122.860	2) TPCL	36.545	590.939
5) CPP (B1+B2+B3)	78.168	676.119	3) REL	20.095	323.321
TOTAL STATE	245.394	3272.210	TOTAL STATE	344.380	5376.599

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 11 Hrs	B. Evening Peak at 20 Hrs	C. Night Minimum at 4 Hrs
MSGENCO Thermal	4384	4576	4377
MSGENCO Hydro	1102	1058	102
MSGENCO Gas	297	387	299
MSGENCO Total Generation	5783	6021	4778
Central Sector Receipt	4488	4138	3585
WIND	116	51	129
CPP / IPP	3156	3361	3180
Exchange with Mumbai	-1008	-879	-619
MSEDCL DEMAND MET	12552	12745	11078
Load Shedding	51	123	60
MSEDCL DEMAND	12603	12868	11138
TPCL GENERATION	1176	1347	697
R-INFRA GENERATION	521	518	402
TPCL+R-INFRA DEMAND	2705	2744	1718
STATE DEMAND MET	15257	15489	12796
STATE DEMAND	15308	15612	12856
Frequency (Hz)	50.01	50.05	50.07

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.29 Hz at 23:51 Hrs	49.63 Hz at 18:38 Hrs	49.99	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 16/Oct/2013

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	1.58	8.43	160	0	150
Unit 6	3.35	48.35	154	113	150
Unit 7	0.35	31.61	156	0	0
Total	5.28	88.39			300
Bhusawal					
Unit 2	0.00	30.03	0	0	0
Unit 3	2.05	42.12	140	0	0
Unit 4	6.04	77.82	360	175	349
Unit 5	6.52	80.58	310	235	0
Total	14.60	230.55			349
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	3.55	52.39	169	129	150
Unit 5	3.72	55.39	166	140	156
Unit 6	4.22	66.84	196	155	165
Unit 7	4.12	63.34	188	149	170
Total	15.61	237.97			641
Chandrapur					
Unit 1	3.12	45.43	137	113	140
Unit 2	2.79	46.57	145	0	140
Unit 3	2.97	35.53	158	100	150
Unit 4	3.71	45.39	170	139	180
Unit 5	0.00	0.00	0	0	0
Unit 6	9.22	118.72	430	356	380
Unit 7	7.64	110.76	358	270	350
Total	29.46	402.39			1340
Paras					
Unit 3	4.35	59.59	203	158	170
Unit 4	4.31	64.66	203	144	160
Total	8.66	124.25			330
Khaparkheda					
Unit 1	3.72	57.74	170	110	180
Unit 2	3.60	53.29	165	135	140
Unit 3	0.76	12.91	160	0	0
Unit 4	4.52	66.58	194	171	190
Unit 5	8.56	77.21	405	320	350
Total	21.16	267.73			860
Nasik					
Unit 3	4.17	66.44	185	165	190
Unit 4	3.88	65.02	170	155	190
Unit 5	4.12	56.18	186	161	190
Total	12.18	187.64			570
Uran					
All Units	8.02	168.13	463	292	300
Total	8.02	168.13			300
PENCH (MS)					
Pench (MS)	0.87	13.91	54	0	0
Total	0.87	13.91			0
Koyna					
Stage 1-2	1.60	37.20	350	35	600
Stage 4	4.65	72.92	520	0	250
Stage 3	1.64	25.75	224	0	320
Kovna 12&4 Total	6.26	110.13			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	7.90	135.87			1170
Hydro					
KDPH	0.00	5.12	0	0	0
VTRNA	0.54	6.46	61	0	61
TILLARI	0.46	4.97	58	0	60
BHTGR/VEER	0.00	0.22	0	0	0
BHIRA T.R.	0.39	4.12	41	0	41
RNGR+BHTSA	0.39	6.41	17	16	14
BHANDARDRA	0.02	4.46	15	0	15
ELDARY	0.45	5.42	23	15	20
SMLHY PTN	0.55	10.43	23	22	10
GHATGHAR	1.80	11.58	240	0	0
Total	4.59	59.20			221
Wind					
MalharPeth	0.10	5.70			
Vankuswadi	0.15	9.18			
ATIT	0.01	1.33			
Kale	0.05	3.69			
Satara	0.67	35.77			
Shirala	0.05	3.95			
K Mahankal	0.01	1.13			
Supa	0.04	1.25			
Vita	0.49	19.17			
Dondaicha	0.12	27.91			
Sakri	0.00	4.08			
Nandurbar	0.04	2.74			
Khandke	0.08	2.66			
Khaparale	0.07	4.32			
Total	1.89	122.86			
CPP					
JSW JAIGAD	25.01	355.01	1127	952	1050
WARDHA	5.50	123.92	300	206	210
Adani	38.86	527.16	1830	1300	1851
Other CPPs	8.79	158.32			245
Total	78.17	1164.42			3356
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	10.16	162.64	502	314	500
Trombay 6	0.00	0.00	0	0	0
Trombay 7A	2.99	41.53	130	115	120
Trombay 7B	1.68	24.73	72	66	60
Trombay 8	5.59	85.87	252	187	250
TATA Hydro	4.71	53.92	424	0	447
Total	25.13	368.69			1377
REL					
1&2	11.89	186.68	521	400	500
Total	11.89	186.68			500
Cent Sect					
Share					4579
Total					4579

MS PG CL	Thermal	106.95	1538.92			4390
	Thml+Gas	114.96	1707.04			4690
	Hydro	12.49	196.91			1391
	Total	127.45	1903.96			6081
State Total		245.39	3272.21			15893

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 16/Oct/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	4462	107	299	4868	131	3176	4300	3999	-683	-920	11305	87	11392	2064	13456	50.01
2	4419	102	299	4820	116	3205	3940	3754	-515	-778	11165	60	11225	1887	13112	49.98
3	4381	102	299	4782	107	3175	3740	3608	-515	-678	11016	60	11076	1784	12860	50.10
4	4377	102	299	4778	129	3180	3724	3585	-506	-619	11078	60	11138	1718	12856	50.07
5	4362	107	311	4780	127	3171	3758	3950	-541	-615	11438	60	11498	1712	13210	50.01
6	4352	112	307	4771	101	3240	4084	4100	-598	-614	11624	103	11727	1804	13531	49.86
7	4443	108	308	4859	119	3352	4293	4181	-637	-659	11898	195	12093	1907	14000	49.99
8	4510	215	312	5037	98	3426	4443	4252	-705	-682	12181	200	12381	2013	14394	49.93
9	4530	329	307	5166	97	3385	4485	4455	-735	-809	12341	140	12481	2231	14712	50.01
10	4448	689	302	5439	128	3424	4545	4411	-801	-915	12534	109	12643	2502	15145	49.95
11	4384	1102	297	5783	116	3156	4497	4488	-796	-1008	12552	51	12603	2705	15308	50.01
12	4378	1011	295	5684	64	3144	4483	4387	-778	-879	12400	57	12457	2769	15226	49.94
13	4458	895	295	5648	66	3152	4478	4360	-772	-885	12341	117	12458	2750	15208	49.95
14	4397	801	292	5490	36	3178	4411	4326	-705	-863	12167	66	12233	2701	14934	50.03
15	4438	966	292	5696	38	3243	4416	4319	-711	-896	12423	63	12486	2732	15218	49.99
16	4394	969	293	5656	33	3222	4397	4124	-711	-880	12206	56	12262	2743	15005	49.90
17	4406	855	390	5651	37	3339	4274	3871	-692	-914	12037	57	12094	2728	14822	49.96
18	4435	440	403	5278	43	3319	4099	3944	-674	-1026	11611	107	11718	2673	14391	49.91
19	4500	998	346	5844	38	3332	4313	4228	-783	-896	12600	109	12709	2758	15467	49.86
20	4576	1058	387	6021	51	3361	4523	4138	-831	-879	12745	123	12868	2744	15612	50.05
21	4651	517	372	5540	55	3369	4357	4313	-818	-804	12527	75	12602	2599	15201	50.00
22	4514	462	390	5366	65	3353	4341	4032	-824	-807	12062	66	12128	2492	14620	50.02
23	4544	234	463	5241	46	3267	4144	3991	-723	-737	11859	55	11914	2366	14280	50.04
24	4587	208	460	5255	46	2999	4224	4173	-769	-864	11630	55	11685	2261	13946	50.08
MUs	106.95	12.49	8.02	127.45	1.89	78.17	102.27	98.99	-16.83	-19.63	287.74	2.13	289.87	56.64	346.51	49.99

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 16/Oct/2013

Position as on 6.30 Hrs of 17/Oct/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.	Annual Overhaul	
CPP WPCL U-2	135	16/10/2013	05.15		Continued.	Maint.Work.	
FORCED OUTAGE							
Dabhol 3B	230	28/05/2013	21.58		Continued.	Gas shortage.	
Dabhol 1B	230	28/05/2013	22.02		Continued.	Gas shortage.	
Dabhol 3A	230	06/06/2013	08.28		Continued.	Gas Shortage	
Dabhol 3X	290	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 WPCL U-3	135	16/09/2013	21.19		Continued.	ESP Bag filter repl.	
CPP VIPL	300	02/10/2013	00.45		Continued.	Turbine bearing vibration high.	02/11/2013
Uran Unit 5	108	05/10/2013	07.26		Continued.	Gas Shortage	
Khaparkheda Unit 3	210	05/10/2013	22.53	16/10/2013	16.51	Flame failure.	
Koradi Unit 7	210	13/10/2013	10.45	16/10/2013	20.10	B.T.L.	
Bhusawal Unit 2	210	13/10/2013	20.14		Continued.	I D fan problem	
Bhusawal Unit 3	210	13/10/2013	23.10	16/10/2013	06.56	boiler problem	
Uran Unit A0	120	15/10/2013	06.13	16/10/2013	21.31	Gas Shortage.	
Uran Unit 6	108	15/10/2013	06.15	16/10/2013	16.08	Gas Shortage.	
Koyna Unit 10	80	16/10/2013	00.05		Continued.	Repl.of BFV trunion lever & non lever side chevron packing.	
Koyna Unit 1	75	16/10/2013	07.05	16/10/2013	18.05	P.M.Work	
Koradi Unit 5	200	16/10/2013	10.47		Continued.	Bearing Tempe. High.	
Chandrapur Unit 2	210	16/10/2013	21.31		Continued.	Boiler Tube Leakage	
Koyna Unit 11	80	16/10/2013	22.30	17/10/2013	05.00	Repl.of BFV trunion lever & non lever side chevron packing	
Bhusawal Unit 3	210	17/10/2013	11.30		Continued.	I D Fan Problem.	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 16/Oct/2013

Position as on 6.30 Hrs of 17/Oct/2013

Name of Line	Tripped Date	Tripped Time	Synchronised Date	Synchronised Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Kolhapur - Mapusa - II	15/10/2013	17.40	16/10/2013	09.26	Over Voltage.
Kolhapur - Mapusa - I	16/10/2013	21.35	17/10/2013	09.27	Over Voltage
Kolhapur - Mapusa - II	17/10/2013	20.38		Continued.	Over Voltage.
Voltage Level : 500KV			Outage Type TRIPPED		
765KV Wardha-Senoi-II (PGCIL)	20/08/2013	20:30		Continued.	Over Voltage.
Voltage Level : 400KV			Outage Type TRIPPED		
Kolhapur-Solapur(PGCIL)-I	18/09/2013	17.01		Continued.	Over Voltage
Kolhapur-Solapur (PG) II	20/09/2013	17.08		Continued.	Due to Heavy Rains,7 No's of Towers are Damaged.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
Dabhol - New Koyna - I	26/09/2013	18.50		Continued.	Chattering Noise at Loc.No.47
50 MVAR Reactor on 400 KV Bhusawal - II	30/09/2013	12.55		Continued.	Complete Overhauling and testing work.(For 17 days.)
TBC at Khadka	07/10/2013	17.38		Continued.	TBC BKR,B-pole stuck up existing BHEL BKR,to be repl by CGL make due to foundation mismatch.
400/220 KV 315 MVA ICT-II @ Lonikand	14/10/2013	13.50		Continued.	Repl.of CB Under Jica and ICT is on TBC.
400/220KV,500MVA ICT-III At Kalwa.	16/10/2013	07.07	16/10/2013	15.58	Testing work
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Chalisgaon-Khadka II	07/10/2013	11.37		Continued.	Modification of existing Khadka-Chalisgaon line.
Khaparkheda New - Khaparkheda Old - II	16/10/2013	10.12	16/10/2013	11.55	Hot Spot
Vita - Lamboti	16/10/2013	14.25	16/10/2013	17.17	Hot Spot
Lonikand-Theur - I	17/10/2013	06.01	17/10/2013	17.22	Replacement of Isolator
Bhosari-Telco	17/10/2013	08.58	17/10/2013	14.34	LILO @ Bhosari Telco Line.
220/132 KV 200 MVA ICT-III @ Phursungi	17/10/2013	09.12	17/10/2013	16.23	Half Yearly Maintenance Work.
ONGC-JNPT	17/10/2013	09.12	17/10/2013	20.30	Replacement of 220KV CT's.
Airoli-Knowledge park-Nasik	17/10/2013	09.38	17/10/2013	12.38	Taken on TBC.
220/100KV 200MVA ICT-I at Kalwa	17/10/2013	10.12	17/10/2013	18.28	For SFRA Routine Maintenance Work.
Babaleshwar - Alephata	17/10/2013	10.59	17/10/2013	19.03	Replacement of PID Faulty Insulator String.
Nivali-Pawas	17/10/2013	13.00	17/10/2013	14.45	Hot Spot Attending Work.
220 KV TBC @ Nagothane	17/10/2013	14.40	17/10/2013	163.00	Breaker Timing Work.
Bhosari - Chakan	17/10/2013	15.44	17/10/2013	19.14	Fixing of SAuspension Insulator String.
Voltage Level : 220KV			Outage Type FORCED OUTAGE		
220/100KV 200MVA ICT-III at Trombay	17/10/2013	00.02	17/10/2013	02.02	100KV Group Breaker-I(TATA) B phase Stub Bus Hot Spot
Kalwa - Salshet - IV	17/10/2013	02.22	17/10/2013	07.23	Hot Spot
Voltage Level : 400KV			Outage Type HAND TRIPPED		

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 16/Oct/2013

Position as on 6.30 Hrs of 17/Oct/2013

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
400/220 KV 100 MVA Spare Unit @ Koradi	12/07/2012	07.11		Continued.	Main Buchholz prot.operated
Bhusawal- Aurangabad	03/09/2013	08.40		Continued.	Over Voltage.
Deepnagar-Aurangabad-I	07/09/2013	22.56		Continued.	Over Voltage.
Dabhol-Nagothane - II	28/09/2013	21:34		Continued.	Over Voltage.
Karad - Newkoyna - I	04/10/2013	17.02		Continued.	Over Voltage.
Chandrapur - Parli - II	12/10/2013	17.43		Continued.	Over Voltage.
Voltage Level : 400KV			Outage Type TRIPPED		
Karad - Kolhapur - II	17/10/2013	03.28	17/10/2013	08.52	Over Voltage
Karad-Kolhapur-II	17/10/2013	13.20	17/10/2013	13.42	Distance Protection B Ph to Earth.
Voltage Level : 220KV			Outage Type TRIPPED		
220/100 KV,200MVA ICT - I at Padgha	07/06/2013	17.48		Continued.	Diff.Protection
Miraj -Ichalkarajni	26/09/2013	22.00		Continued.	Over Load
Kolhapur - Sawantwadi - II	16/10/2013	11.18	16/10/2013	17.28	Distance Protection
Kharepatan-Pawas	16/10/2013	13.22	16/10/2013	16.07	Distance Protection
Pawas-Phinolex.	16/10/2013	13.22	16/10/2013	14.27	Distance Protection
Nivali-Pawas	16/10/2013	13.22	16/10/2013	14.17	Distance Protection
Pedambe - Oni	16/10/2013	13.42	16/10/2013	17.51	R Phase LA Burst at Oni S/Stn
Oni - Kharepatan	16/10/2013	13.42	16/10/2013	16.18	Distance Protection
220/100KV,200 MVA ICT- II at Trombay.	16/10/2013	21.15		Continued.	100KV Group Control Breaker-II B Pole Burst(TATA)Kept on Humming 22.30Hrs
Nivali-N'koyna	17/10/2013	15.06	17/10/2013	15.40	Distance Protection.
220/100KV 200MVA ICT- III at Kalwa	17/10/2013	16.40	17/10/2013	16.55	P D Operated.
Pedambe - Mahad	17/10/2013	20.30	17/10/2013	21.07	Distance Protection B Ph Earth.
Voltage Level : 132KV			Outage Type TRIPPED		
Jalna - Ambad	17/10/2013	01.47	17/10/2013	01.59	Distance Protection Operated Z-I Y Ph.
Jalgaon - Bambhori	17/10/2013	05.50	17/10/2013	06.18	Distance Protection Operated Z-I Y Ph.
Voltage Level : 100KV			Outage Type TRIPPED		
Kalwa - Vashi - II	16/10/2013	17.05	16/10/2013	17.20	Distance Protection

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 17/Oct/2013

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	0
Unit 6	210	140
Unit 7	210	155
	620	295
Bhusawal		
Unit 2	210	0
Unit 3	210	140
Unit 4	500	215
Unit 5	500	0
	1420	355
Parli		
Unit 3	210	0
Unit 4	210	135
Unit 5	210	145
Unit 6	250	175
Unit 7	250	185
	1130	640
Chandrapur		
Unit 1	210	140
Unit 2	210	0
Unit 3	210	130
Unit 4	210	180
Unit 5	500	0
Unit 6	500	400
Unit 7	500	400
	2340	1250
Paras		
Unit 3	250	200
Unit 4	250	200
	500	400
Khaparkheda		
Unit 1	210	190
Unit 2	210	180
Unit 3	210	190
Unit 4	210	190
Unit 5	500	350
	1340	1100
Nasik		
Unit 3	210	190
Unit 4	210	190
Unit 5	210	190
	630	570
Uran		
All Units	852	300
	852	300
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	0
VTRNA	60	60

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	60
BHTGR/VEER	21	0
BHIRA T.R.	80	40
RNGR+BHTSA	20	14
BHANDARDRA	45	15
ELDARY	23	0
SMLHY PTN	12	17
GHATGHAR	250	0
	611	206
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	1050
WARDHA	405	210
Adani	1320	1851
Other CPPs	300	245
	3225	3356
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	3455	4779
	3455	4779