



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

State Load Dispatch Center, Airoli

Daily system Report

for

13/Dec/2013

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 13/Dec/2013 FRIDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	111.968	1374.317	1) Gujrat	9.702	175.941
2) Hydro	14.733	215.471	2) Madhya Pradesh	16.458	249.342
3) Gas	5.755	93.425	3) Chattisgarh	9.600	134.390
Total MSGENCO	132.456	1683.213	4) Maharashtra	68.186	1016.406
B) 1) JSW JAIGAD	18.764	251.011	5) Goa	-5.537	-71.140
2) WPCL	7.484	98.778	6) TAPS 1&2 Injection	3.887	50.121
3) ADANI	27.340	363.540	7) RGPPL Injection	6.580	45.361
4) Other CPP / IPP	8.032	101.385	8) Pench (Excess)	-0.608	-5.435
5) Wind Generation	9.415	63.811	# Total Cent. Sector	108.268	1594.986
6) PENCH (MS)	0.608	5.435	F) Other Exchanges		
7) SOLAR	0.973	10.571	1) With TPCL (Excess)	-14.488	-227.423
C) 1) TPCL Thermal	18.518	246.238	G) Bilateral Power *		
2) TPCL Hydro	5.119	61.922	1) MSEDCL Bilateral	30.090	387.935
TOTAL TPCL	23.637	308.160	Include PX	-0.640	9.192
3) REL Thermal	11.759	146.325	2) MUMBAI Bilateral	15.335	224.125
D) STATE			Include PX	1.413	42.561
1) Thermal (A1+C1+C3)	142.245	1766.880	3) MUMBAI Schedule	15.335	226.924
2) Hydro (A2+B6+C2)	20.460	282.828	H) ENERGY CATERED (MUs)		
3) Gas (A3)	5.755	93.425	1) MSEDCL	298.852	3945.307
4) Wind (B5)	9.415	63.811	2) TPCL	32.726	441.598
5) CPP/IPP (B1+B2+B3+B4)	61.620	478.514	3) REL	17.157	240.306
6) SOLAR (B7)	0.973	10.571	TOTAL STATE	348.735	4627.211
TOTAL STATE	240.468	2696.029			

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 17 Hrs	C. Night Minimum at 3 Hrs
MSGENCO Thermal	4765	4698	4492
MSGENCO Hydro	1484	1515	129
MSGENCO Gas	216	217	279
MSGENCO Total Generation	6465	6430	4900
Central Sector Receipt	4846	4547	3525
WIND	537	115	536
CPP / IPP	2621	2717	2219
SOLAR	134	47	0
Exchange with Mumbai	-773	-760	-396
MSEDCL DEMAND MET	13882	13149	10784
Load Shedding	866	723	17
MSEDCL DEMAND	14748	13872	10801
TPCL GENERATION	1268	1224	609
R-INFRA GENERATION	526	526	397
TPCL+R-INFRA DEMAND	2567	2510	1402
STATE DEMAND MET	16449	15659	12186
STATE DEMAND	17315	16382	12203
Frequency (Hz)	49.98	49.93	50.05

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.4 Hz at 03:01 Hrs	49.62 Hz at 09:11 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 13/Dec/2013

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	2.63	30.18	125	95	130
Unit 6	1.56	40.93	140	0	130
Unit 7	3.43	47.86	175	120	140
Total	7.62	118.97			400
Bhusawal					
Unit 2	3.62	46.73	160	145	150
Unit 3	1.94	39.58	155	0	0
Unit 4	5.40	19.56	265	185	200
Unit 5	4.78	33.17	245	120	0
Total	15.75	139.05			350
Parli					
Unit 3	0.00	0.00	0	0	0
Unit 4	4.09	51.05	183	140	170
Unit 5	3.90	36.40	178	149	150
Unit 6	4.44	57.78	220	107	162
Unit 7	4.28	55.80	201	157	168
Total	16.71	201.03			650
Chandrapur					
Unit 1	3.17	40.28	136	128	140
Unit 2	3.24	40.62	141	126	140
Unit 3	3.92	50.88	187	131	190
Unit 4	0.00	47.18	0	0	0
Unit 5	0.00	0.00	0	0	0
Unit 6	9.36	97.29	415	360	400
Unit 7	8.10	117.65	384	295	375
Total	27.78	393.91			1245
Paras					
Unit 3	5.50	63.88	248	189	240
Unit 4	5.51	67.63	250	195	240
Total	11.01	131.52			480
Khaparkheda					
Unit 1	2.84	19.78	140	95	180
Unit 2	2.56	38.37	125	85	160
Unit 3	2.01	26.94	149	0	200
Unit 4	3.67	52.13	158	147	200
Unit 5	8.96	107.88	409	345	450
Total	20.03	245.10			1190
Nasik					
Unit 3	4.36	44.08	190	170	190
Unit 4	4.34	55.35	190	170	190
Unit 5	4.36	45.31	192	170	190
Total	13.06	144.74			570
Uran					
All Units	5.76	93.42	284	214	300
Total	5.76	93.42			300
PENCH (MS)					
Pench (MS)	0.61	5.44	53	0	0
Total	0.61	5.44			0
Koyna					
Stage 1-2	3.28	54.28	525	40	600
Stage 4	4.64	80.08	813	0	250
Stage 3	1.89	28.64	240	0	240
Kovna 12&4 Total	7.92	134.36			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Total	9.82	163.00			1090
Hydro					
KDPH	0.46	6.24	20	19	18
VTRNA	0.00	0.00	0	0	0
TILLARI	0.00	0.00	0	0	0
BHTGR/VEER	0.07	1.05	3	2	5
BHIRA T.R.	0.29	3.66	41	0	40
RNGR+BHTSA	0.37	4.94	16	15	15
BHANDARDRA	0.34	0.34	31	0	0
ELDARY	0.00	0.00	0	0	0
SMLHY PTN	1.13	13.01	48	47	10
GHATGHAR	2.26	23.22	250	0	0
Total	4.91	52.47			88
Wind					
MalharPeth	0.60	3.78			
Vankuswadi	1.26	7.85			
ATIT	0.17	2.50			
Kale	0.43	2.94			
Satara	3.80	23.94			
Shirala	0.50	3.05			
K Mahankal	0.02	0.93			
Supa	0.10	0.89			
Vita	0.47	7.02			
Dondaicha	1.16	6.05			
Sakri	0.17	0.71			
Nandurbar	0.06	0.45			
Khandke	0.31	1.87			
Khaparale	0.36	1.84			
Total	9.42	63.81			
CPP					
JSW JAIGAD	18.76	251.01	890	657	820
WARDHA	7.48	98.78	317	308	310
Adani	27.34	363.54	1230	860	1234
Other CPPs	8.03	101.38			
Total	61.62	814.71			2364
SOLAR					
Total	0.97	10.57			
Total	0.97	10.57			
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	10.63	138.99	503	317	500
Trombay 6	0.00	0.00	0	0	0
Trombay 7A	1.28	18.54	60	49	120
Trombay 7B	1.04	14.88	48	39	60
Trombay 8	5.57	73.84	253	183	250
TATA Hydro	5.12	61.92	444	0	447
Total	23.64	308.16			1377
REL					
1&2	11.76	146.32	527	392	500
Total	11.76	146.32			500
Cent Sect					
Share					4900
Total					4900
MS PG CL	Thermal	111.97	1374.32		4885
	Thml+Gas	117.72	1467.74		5185
	Hydro	14.73	215.47		1178
	Total	132.46	1683.21		6363
State Total		240.47	2696.03		15504

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 13/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 SHEDDI NG	MSEDCL DEM. WITH LS	TPCL + R -INFRA DEMAND	STATE DEMAND	FREQ. (Hz)
	THM	HY	GAS														
1	4562	126	284	4972	567	2224	0	4285	3981	-625	-612	11132	11	11143	1618	12761	50.10
2	4530	126	282	4938	533	2216	0	4026	3799	-516	-461	11025	17	11042	1469	12511	50.04
3	4492	129	279	4900	536	2219	0	3964	3525	-453	-396	10784	17	10801	1402	12203	50.05
4	4519	124	279	4922	505	2216	0	3946	4185	-432	-364	11464	17	11481	1372	12853	50.12
5	4543	130	268	4941	516	2287	0	4203	4122	-429	-321	11545	17	11562	1369	12931	50.06
6	4690	130	263	5083	552	2597	0	4562	4420	-478	-280	12372	115	12487	1491	13978	49.99
7	4630	135	263	5028	587	2661	0	4701	4498	-523	-307	12494	789	13283	1664	14947	49.86
8	4572	255	263	5090	627	2656	12	4676	4776	-391	-266	12935	1034	13969	1797	15766	49.84
9	4601	881	257	5739	480	2528	60	4760	4786	-432	-422	13224	985	14209	2041	16250	49.86
10	4691	1606	256	6553	531	2559	128	4650	4713	-511	-516	14021	750	14771	2327	17098	49.86
11	4710	1446	242	6398	558	2635	97	4906	4922	-760	-750	13913	755	14668	2502	17170	49.99
12	4765	1484	216	6465	537	2621	134	4924	4846	-808	-773	13882	866	14748	2567	17315	49.98
13	4807	1246	216	6269	364	2643	152	5036	5132	-782	-792	13813	1009	14822	2564	17386	50.00
14	4653	1151	216	6020	238	2735	145	4723	4926	-725	-779	13308	880	14188	2481	16669	50.07
15	4640	1219	218	6077	164	2730	112	4884	5065	-721	-704	13467	860	14327	2478	16805	49.89
16	4601	1674	216	6491	122	2727	78	4791	4766	-730	-746	13479	753	14232	2504	16736	49.87
17	4698	1515	217	6430	115	2717	47	4804	4547	-740	-760	13149	723	13872	2510	16382	49.93
18	4709	286	216	5211	177	2732	8	4813	4497	-747	-720	11958	885	12843	2486	15329	49.95
19	4698	209	215	5122	260	2749	0	4818	5037	-846	-853	12368	660	13028	2564	15592	49.95
20	4746	196	214	5156	316	2707	0	5078	4639	-774	-820	12025	696	12721	2520	15241	50.01
21	4793	190	214	5197	293	2626	0	4605	4806	-722	-720	12214	398	12612	2384	14996	50.10
22	4879	160	215	5254	270	2644	0	4008	4053	-655	-605	11616	263	11879	2114	13993	50.09
23	4816	160	223	5199	281	2636	0	4086	3995	-798	-780	11331	18	11349	1924	13273	50.03
24	4623	155	223	5001	286	2555	0	4381	4232	-736	-741	11333	22	11355	1736	13091	50.14
MUs	111.97	14.73	5.76	132.46	9.42	61.62	0.97	109.63	108.27	-15.34	-14.49	298.85	12.54	311.39	49.88	361.28	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 13/Dec/2013

Position as on 6.30 Hrs of 14/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.	13/12/2013
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		Continued.	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	
Bhusawal Unit 3	210	11/12/2013	14.31	13/12/2013	8.43	BLR T/L.	
Chandrapur Unit 4	210	11/12/2013	23.21		Continued.	BLR T/L.	
Chandrapur Unit 3	210	13/12/2013	00:21		Continued.	PA Fan Tripped	
Koradi Unit 6	210	13/12/2013	12.49		Continued.	P.A.FAN PROBLEM	
Khaparkheda Unit 3	210	13/12/2013	13.03	13/12/2013	21.58	Furnace Pressure High	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 13/Dec/2013

Position as on 6.30 Hrs of 14/Dec/2013

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
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 - Mapusa - I	12/12/2013	16.08	13/12/2013	9.15	Over Voltage.
Solapur-Solapur(PGCIL)	12/12/2013	16.45	13/12/2013	06.47	Over Voltage.
Kolhapur-Solapur (PG) II	12/12/2013	17.02	13/12/2013	7.05	Over Voltage.
Dhule-Sar'Sarovar - I	12/12/2013	23.40	13/12/2013	9.05	Over Voltage.
Solapur - Solapur (PG)	13/12/2013	16.15		Continued.	over voltage
Kolhapur - Mapusa - I	13/12/2013	16.16		Continued.	over voltage
Kolhapur-Solapur(PGCIL)-I	13/12/2013	16.41		Continued.	over voltage
Parly(PG)- Solapur(PG) - I	13/12/2013	21.47		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.
Voltage Level : 400KV			Outage Type TRIPPED		
Karad - Solapur (PGCIL)	12/12/2013	21.53	13/12/2013	9.11	Over Voltage.
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)
400/220KV 315MVA ICT- I @ Chandrapur	04/12/2013	11.20		Continued.	Taken on TBC LV Side for Breaker Work.
Dabhol - Nagothane - I	12/12/2013	10.48		Continued.	Testing Work.RFC 19.10 Hrs.
Padghe-BBLSR-I	13/12/2013	15.39	13/12/2013	22.12	Replacement of R-ph cvt
Bableshtar-Aurangabad	13/12/2013	9.36	13/12/2013	18.51	Replacement of damaged insu. string at loc 478 bh
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Chalishaon-Khadka II	07/10/2013	11.37		Continued.	Modification of existing Khadka-Chalishaon 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 STRENGTHENING 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.
220 KV Interconnector @ Kalwa	13/12/2013	10.07	13/12/2013	13.09	To attend hot spot on R ph.breker top pad
Karad - Ogalewadi - II	13/12/2013	10.10	13/12/2013	12.10	Replacement of flashed over insu.string at L.no 5
220/100 MVA ICT-1 at Jambhul	13/12/2013	10.10	13/12/2013	16.25	R&M WORK
220kv/200 MVA ICT-1 at Pal	13/12/2013	10.20	13/12/2013	18.50	Attending oil leakage of lv R-PH CT,R&M Work
220/100KV 200MVA ICT-I at Talaja	13/12/2013	11.27	13/12/2013	17.48	Attending hot spot ,crm timing ,tan delta of ct & bushing

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 13/Dec/2013

Position as on 6.30 Hrs of 14/Dec/2013

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Nagothane - ACCIL	13/12/2013	12.02	13/12/2013	16.22	CB Timing % CRM
Mulund-Kalwa-I	13/12/2013	6.17	13/12/2013	14.05	Replacement of Pressure Compressor Valve At mulund s/s
Chitegaon-Shendra	13/12/2013	7.33	13/12/2013	13.33	Stringing work for power line crossing of 400kv abad(pg)abad
Pophali - KDPH	13/12/2013	7.50	13/12/2013	18.20	Replacement of old Insu.String at loc1-5
Alephata-Kathapur	13/12/2013	8.40	13/12/2013	18.26	Replacement of 245kv ct under jica-2
Kalwa-Temghar	13/12/2013	8.57	13/12/2013	18.00	for Attending bus side isolator work at kalwa
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	10/12/2013	17.06	13/12/2013	8.54	Over Voltage.
Karad-Jaigad I	12/12/2013	17.09	13/12/2013	11.04	Over Voltage.
Lonikand- Koyna Stage IV	12/12/2013	20.09		Continued.	Over Voltage.
Karad-Jaigad I	13/12/2013	17.01		Continued.	over voltage
Bhusawal- Aurangabad	13/12/2013	18.55		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.
Aurangabad - Babaleshwar	30/11/2013	9.24		Continued.	TO CONTROL A'BAD ICT LOADING
Voltage Level : 400KV			Outage Type TRIPPED		
Karad - Kolhapur - I	14/12/2013	4.01		Continued.	over voltage
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.

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 14/Dec/2013

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	126
Unit 6	210	0
Unit 7	210	144
	620	270
Bhusawal		
Unit 2	210	150
Unit 3	210	150
Unit 4	500	269
Unit 5	500	0
	1420	569
Parli		
Unit 3	210	0
Unit 4	210	170
Unit 5	210	155
Unit 6	250	165
Unit 7	250	160
	1130	650
Chandrapur		
Unit 1	210	140
Unit 2	210	140
Unit 3	210	0
Unit 4	210	0
Unit 5	500	0
Unit 6	500	375
Unit 7	500	375
	2340	1030
Paras		
Unit 3	250	230
Unit 4	250	230
	500	460
Khaparkheda		
Unit 1	210	165
Unit 2	210	150
Unit 3	210	158
Unit 4	210	180
Unit 5	500	425
	1340	1078
Nasik		
Unit 3	210	190
Unit 4	210	190
Unit 5	210	190
	630	570
Uran		
All Units	852	210
	852	210
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	18
VTRNA	60	0

Generating unit	Derated Capacity (MW)	OLC (MW)
TILLARI	60	0
BHTGR/VEER	21	5
BHIRA T.R.	80	40
RNGR+BHTSA	20	15
BHANDARDRA	45	0
ELDARY	23	0
SMLHY PTN	12	10
GHATGHAR	250	0
	611	88
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	800
WARDHA	405	330
Adani	1980	1234
Other CPPs	300	
	3885	2364
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	250
TATA Hydro	444	447
	2024	1377
REL		
1&2	500	500
	500	500
Cent Sect		
Share	3455	5080
	3455	5080