



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

State Load Dispatch Center, Airoli

Daily system Report

for

30/Nov/2011

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 30/Nov/2011 WEDNESDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	118.059	3139.604	1) Gujrat	3.590	97.573
2) Hydro	9.928	353.362	2) Madhya Pradesh	22.941	665.156
3) Gas	15.347	432.210	3) Chattisgarh	14.640	448.480
Total MSGENCO	143.334	3925.176	4) Maharashtra	55.916	1643.767
B) OTHERS			5) Goa	-6.968	-188.933
1) JSW JAIGAD	25.765	761.901	6) TAPS 1&2 Injection	7.746	232.684
2) WPCL	8.532	219.873	7) RGPPL Injection	29.806	913.298
3) Other CPP / IPP	6.527	160.142	8) Pench (Excess)	-0.292	-8.695
4) Wind Generation	1.992	143.844	# Total Cent. Sector	127.379	3803.330
5) PENCH (MS)	0.292	12.826	F) Other Exchanges		
C) TPCL & REL			1) With TPCL (Excess)	-13.064	-321.173
1) TPCL Thermal	29.443	811.647	G) Bilateral Power *		
2) TPCL Hydro	4.019	112.009	1) MSEDCL Bilateral	43.260	1158.439
TOTAL TPCL	33.462	923.656	Include PX	2.754	79.374
3) REL Thermal	12.629	364.845	2) MUMBAI Bilateral	13.275	363.005
D) STATE			Include PX	2.193	7.818
1) Thermal (A1+C1+C3)	160.131	4316.096	3) MUMBAI Schedule	13.275	373.318
2) Hydro (A2+B5+C2)	14.239	478.197	H) ENERGY CATERED (MUs)		
3) Gas (A3)	15.347	432.210	1) MSEDCL	300.757	8705.919
4) Wind (B4)	1.992	143.844	2) TPCL	39.251	1072.017
5) CPP (B1+B2+B3)	40.824	1141.916	3) REL	19.901	537.596
TOTAL STATE	232.533	6512.263	TOTAL STATE	359.909	10315.532

DETAILS OF MAHARASHTRA STATE PEAK DEMAND(MW)

PARTICULARS	A. Morning Peak at 12 Hrs	B. Evening Peak at 20 Hrs	C. Night Minimum at 3 Hrs
MSGENCO Thermal	4881	5075	4743
MSGENCO Hydro	1066	391	147
MSGENCO Gas	616	634	653
MSGENCO Total Generation	6563	6100	5543
Central Sector Receipt	5513	5425	5115
WIND	96	61	134
CPP / IPP	1742	1699	1662
Exchange with Mumbai	-663	-612	-323
MSEDCL DEMAND MET	13276	12718	12084
Load Shedding (LS)	1915	1047	468
MSEDCL DEMAND (INCL. LS)	15191	13765	12552
TPCL GENERATION	1728	1746	982
REL GENERATION	525	525	528
TPCL+REL DEMAND	2916	2883	1833
STATE DEMAND MET	16192	15601	13917
Load Management (LM)	2430	3559	1589
Total Load Relief (LS+LM)	4345	4606	2057
UNRESTRICTED STATE DEMAND	20537	20207	15974
Frequency (Hz)	49.44	49.60	49.94

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49.2 Hz
50.26 Hz at 04.04 Hrs	49.03 Hz at 17.43 Hrs	49.67	1.06 % 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 30/Nov/2011

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 5	0.49	82.64	118	0	0
Unit 6	3.46	103.69	165	115	145
Unit 7	3.32	65.11	165	115	135
Total	7.27	251.44			280
Bhusawal					
Unit 2	4.42	107.10	195	165	180
Unit 3	4.50	91.60	195	170	190
Unit 4	0.00	0.00	0	0	
Total	8.91	198.70			370
Parli					
Unit 3	0.00	25.34	0	0	0
Unit 4	4.06	105.90	180	160	160
Unit 5	0.00	79.36	0	0	0
Unit 6	4.79	120.41	244	167	180
Unit 7	4.86	126.24	233	172	180
Total	13.71	457.25			520
Chandrapur					
Unit 1	3.67	112.39	158	149	160
Unit 2	0.00	9.78	0	0	0
Unit 3	4.30	119.71	185	173	185
Unit 4	4.86	141.15	207	195	210
Unit 5	11.06	226.74	485	440	450
Unit 6	10.20	249.32	475	385	400
Unit 7	9.75	251.78	428	364	400
Total	43.85	1110.85			1805
Paras					
Unit 3	3.64	110.38	166	141	150
Unit 4	3.78	107.12	170	140	150
Total	7.43	217.50			300
Khaparkheda					
Unit 1	4.38	119.82	200	160	180
Unit 2	4.49	118.61	195	171	180
Unit 3	4.92	125.30	218	183	180
Unit 4	4.05	124.83	188	129	180
Unit 5	4.45	50.80	230	158	
Total	22.29	539.36			720
Nasik					
Unit 3	5.20	140.25	220	215	192
Unit 4	4.89	110.89	209	193	192
Unit 5	4.52	113.35	194	169	162
Total	14.60	364.50			546
Uran					
All Units	15.35	432.21	663	614	630
Total	15.35	432.21			630
PENCH (MS)					
Pench (MS)	0.29	12.83	53	0	
Total	0.29	12.83			
Koyna					
Stage 1-2	2.77	107.72	430	35	600
Stage 4	2.01	101.70	504	0	250
Stage 3	0.64	45.00	146	0	320
Total	5.42	254.43			1170
Kovna 12&4 Total	4.78	209.42			850

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Hydro					
KDPH	0.47	9.22	20	19	20
VTRNA	0.00	0.39	0	0	0
TILLARI	0.00	6.79	0	0	0
BHTGR/VEER	0.51	6.50	22	21	12
BHIRA T.R.	0.23	6.46	73	0	80
RNGR+BHTSA	0.39	11.59	17	16	17
BHANDARDRA	0.00	0.00	0	0	0
ELDARY	0.00	7.58	0	0	
SMLHY PTN	1.26	24.14	61	51	11
GHATGHAR	1.64	26.26	250	0	
Total	4.51	98.94			140
Wind					
MalharPeth	0.13	11.88			
Vankuswadi	0.21	19.32			
ATIT	0.04	4.26			
Kale	0.06	7.08			
Satara	0.17	26.37			
Shirala	0.06	8.08			
K Mahankal	0.11	7.70			
Supa	0.07	2.44			
Vita	0.22	25.70			
Dondaicha	0.67	14.15			
Sakri	0.10	2.58			
Nandurbar	0.04	1.56			
Khandke	0.05	6.45			
Khaparale	0.04	6.30			
Total	1.99	143.84			
CPP					
JSW JAIGAD	25.76	761.90	1106	1003	1100
WARDHA	8.53	219.87	369	333	360
Other CPPs	6.53	160.14			
Total	40.82	1141.92			1460
Tata					
Trombay 4	0.00	0.00	0	0	0
Trombay 5	11.33	302.69	495	359	495
Trombay 6	8.19	209.92	504	155	500
Trombay 7A	2.50	83.04	122	68	120
Trombay 7B	1.47	46.77	67	51	60
Trombay 8	5.96	169.23	250	245	250
TATA Hydro	4.02	112.01	403	0	447
Total	33.46	923.66			1872
REL					
1&2	12.63	364.84	528	525	500
Total	12.63	364.84			500
Cent Sect					
Share					5467
Total					5467

MS PG CL	Thermal	118.06	3139.60			4541
	Thml+Gas	133.41	3571.81			5171
	Hydro	9.93	353.36			1310
	Total	143.33	3925.18			6481
State Total		232.53	6512.26			15780

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 30/Nov/2011

TIME SR. NO.	MSPGCL GEN.			TOTAL	WIND	CPP / IPP	CS SHARE	CS RECPT	Mum.S CH.	Mum. NET EXCH.	MSEDCL DEMAND MET	# LOAD RELEIF (LS+LM)	MSEDCL DEMAND WITH LS	TPCL + REL DEMAND	STATE DEM. WITH LS+LM	FREQ. (Hz)
	THM	HY	GAS													
1	4734	157	645	5536	113	1630	5122	5593	-546	-553	12319	2079	12514	2112	16510	49.84
2	4700	152	653	5505	90	1603	5005	5373	-410	-455	12116	2168	12493	1959	16243	49.80
3	4743	147	653	5543	134	1615	4949	5115	-334	-323	12084	2057	12552	1833	15974	49.94
4	4785	147	655	5587	87	1613	4924	4994	-309	-287	11994	2305	12485	1757	16056	49.99
5	4810	152	657	5619	157	1619	4924	5197	-309	-281	12311	2312	12811	1745	16368	49.87
6	4862	142	658	5662	161	1706	5196	5461	-309	-232	12758	2654	13494	1801	17213	49.82
7	4873	218	655	5746	216	1722	5183	5151	-312	-332	12503	3718	14078	1934	18155	49.60
8	5011	178	659	5848	157	1726	5206	5195	-317	-424	12502	4138	14191	2059	18699	49.58
9	5007	147	663	5817	105	1739	5299	5249	-439	-505	12405	4289	14038	2319	19013	49.69
10	5010	196	633	5839	126	1753	5322	5470	-488	-507	12687	4457	14600	2668	19812	49.94
11	4887	509	620	6016	108	1745	5547	5513	-665	-647	12762	4435	14780	2899	20096	49.57
12	4881	1066	616	6563	96	1742	5560	5513	-723	-663	13276	4345	15191	2916	20537	49.44
13	4815	1101	614	6530	40	1752	5589	5490	-735	-677	13160	4495	15227	2907	20562	49.58
14	4847	888	615	6350	33	1736	5617	5616	-732	-639	13113	4207	14944	2828	20148	49.58
15	4898	1277	619	6794	15	1736	5567	5581	-736	-728	13407	3889	15111	2890	20186	49.54
16	4903	1364	622	6889	15	1735	5546	5223	-741	-731	13131	3917	14926	2891	19939	49.48
17	4946	591	626	6163	15	1699	5183	5010	-670	-654	12233	4410	14184	2878	19521	49.47
18	4995	150	626	5771	36	1728	5148	4632	-630	-600	11567	4301	13038	2846	18714	49.56
19	5025	300	630	5955	64	1723	5329	5284	-660	-604	12449	4843	13784	2910	20202	49.67
20	5075	391	634	6100	61	1699	5501	5425	-650	-612	12718	4606	13765	2883	20207	49.60
21	5095	182	643	5920	54	1692	5484	5422	-645	-597	12544	4331	13334	2723	19598	49.60
22	5104	156	650	5910	41	1687	5432	5078	-640	-607	12154	4094	12730	2575	18823	49.65
23	5044	166	646	5856	33	1712	5299	5327	-640	-700	12241	3700	12771	2466	18407	49.60
24	5009	151	655	5815	35	1712	5181	5467	-636	-706	12323	3093	12672	2356	17772	49.78
MUs	118.06	9.93	15.35	143.33	1.99	40.82	127.11	127.38	-13.27	-13.06	300.76	88.84	329.71	59.16	448.76	49.67

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 30/Nov/2011

Position as on 6.30 Hrs of 01/Dec/2011

Name of Generating Unit	Capacity	Tripped Date	Tripped Time	Sync.Date	Sync. Time	Reason of Outage	Expected Date
PLANNED OUTAGE							
Chandrapur Unit 2	210	05/11/2011	11.02		Continued.	Boiler Tube Leakage,converted to AOH.	30/11/2011
Cent_Sect TARAPUR-4	540	06/11/2011	01.00		Continued.	Annual Overhaul	25/12/2011
Parli Unit 3	210	12/11/2011	21.25		Continued.	Annual Overhaul.	22/12/2011
FORCED OUTAGE							
Bhusawal Unit 4	500	17/10/2011	03.55		Continued.	Hand Tripped	
CPP WPCL U-4	135	02/11/2011	04.40		Continued.	ID Fan Problem, Preparation for P.G. Test.	05/12/2011
Dabhol 1A	230	14/11/2011	12:00		Continued.	Gas Shortage.	30/11/2011
Cent_Sect Kawas GT2A	106	21/11/2011	18:30		Continued.	W/Dn.	
Dabhol 1B	230	23/11/2011	03.45		Continued.	Gas Shortage	
Dabhol 1X	290	23/11/2011	03.45		Continued.	Gas Shortage	
Parli Unit 5	210	28/11/2011	04.26		Continued.	P.A.fan problem.	30/11/2011
Koradi Unit 5	200	29/11/2011	00.39		Continued.	Boiler Tube Leakage	01/12/2011

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 30/Nov/2011

Position as on 6.30 Hrs of 01/Dec/2011

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
Koradi-Bhilai	30/11/2011	12.39	30/11/2011	13.44	RTU Commisioning Work,Online Work.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Boiser - Tarapur	30/10/2011	08.31		Continued.	60 Days outage for Dismantling of existing tower and re-stringing work for Mumbai Strengthing Scheme(Converted as Borivali-Tarapur
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Parli-Parli (PGCIL) I	19/10/2011	21.40		Continued.	Over Voltage.
Parli (PG)-Bhadravati I	27/11/2011	20.15		Continued.	Over Voltage.
Parli (PG) - Wardha (PG) - II	28/11/2011	16.55		Continued.	Isolator Problem
Dhule-S'Sarovar I	29/11/2011	08.16	30/11/2011	09.06	Over Voltage
Voltage Level : 132KV			Outage Type HAND TRIPPED		
Pench - Kanhan	23/11/2011	21.55		Continued.	Hand Tripped.
Voltage Level : 400KV			Outage Type TRIPPED		
Dhule-S'Sarovar I	30/11/2011	17.00		Continued.	B Ph. C B Pole Burst.
Dhule-Khandwa-II	30/11/2011	17.00	30/11/2011	17.42	Bus Fault @ 400 KV Dhule.
Dhule-Sar'Sarovar - II	30/11/2011	17.00	01/12/2011	00.33	Bus Fault @ 400 KV Dhule.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
400/220KV 105 MVA Spare ICT at Parly II	22/04/2011	13.50		Continued.	To Remove Trip Coil Assembly for Bus Coupler.
400/220KV 315MVA ICT-II @ New Koyna	29/11/2011	08.00	30/11/2011	17.50	Taken on TBC for replacing faulty cable.
400/220 KV 500 MVA ICT-I @ Jejuri	01/12/2011	00.10		Continued.	33 KV B Ph. Bushing Replacement.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
Babaleshwar - Chalisgaon	15/12/2010	13.42		Continued.	Conversion of S/C to D/C
220/132 KV 250 MVA ICT at Ambazari	05/08/2011	10.41		Continued.	ICT is to be replaced by 200 MVA ICT
Bhoisor - Borivali	30/10/2011	08.06		Continued.	60 Days outage for Dismantling of existing tower and re-stringing work for Mumbai Strengthing Scheme(Converted as Borivali-Tarapur
220/100KV,125 MVA T/F-II at Jambhul	08/11/2011	13.50		Continued.	Inspection and Rectification of Gas Formation upto 29/11/2011
220/7 KV 20 MVA Stn.T/F-IV at Korady	23/11/2011	16.53		Continued.	(L V Side is on TBC) Rep, of 29B Isolator.
220/132 KV 100 MVA ICT-I @ Girawali	24/11/2011	10.46		Continued.	Augmentation of ICT BY 200 MVA ICT.
Main Bus-I at Koradi.	28/11/2011	11.19		Continued.	Replacement of 29A Bus-I isolator of various feeders under LES.
220/132 KV 100 MVA ICT @ Bhandara	29/11/2011	12.41		Continued.	Breaker Overhaul
Koradi-Ambazari-I	29/11/2011	16.34		Continued.	Isolator replacement work(Ckt is on TBC)
Usmanabad-Barshi	30/11/2011	05.36	30/11/2011	17.55	LILO Work for New 220KV Paranda S/S.
Khaperkheda-Purti	30/11/2011	07.30	30/11/2011	20.49	Stringing of location No.4 & 5 IN R/O 220KV Butibori-I TO Butibori-III(New)

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 30/Nov/2011

Position as on 6.30 Hrs of 01/Dec/2011

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
					EHV Line.
Uran-Kharghar-II	30/11/2011	09.15	30/11/2011	18.04	R.M.Work.
Kalwa-Trombay	30/11/2011	09.20		Continued.	Replacement of Breaker (Taken on TBC upto 14/12/2011).
Main Bus- II @ Lamboti	30/11/2011	10.19	30/11/2011	13.55	Hot Spot Attending.
Wardha-RLY TSS I	30/11/2011	10.34	30/11/2011	13.50	Attending Hot Spot on Y Ph.Metering C T Clamp Towards Protection C T & other Maint.Work.
Kalwa - Ghatghar	30/11/2011	11.30	30/11/2011	21.27	Relay Testing Work.
Malinagar-Temburni	30/11/2011	12.15	30/11/2011	16.15	Q.M.Work.
220/132 KV 100 MVA ICT @ Bhandara	30/11/2011	15.37	30/11/2011	17.43	Breaker Overhaul.
Koradi-Ambazari-I	30/11/2011	16.34	30/11/2011	17.18	220KV Main Bus-I Isolator Replacement Work (Ckt is on TBC).
Koradi - Ambazari - II	30/11/2011	17.28		Continued.	29A Isolator Replacement Work (For 3 Day's Ckt on TBC).
Voltage Level : 132KV					Outage Type PLANNED OUTAGE
Hingna-Mankapur-I	29/11/2011	08.10		Continued.	Replacement of Conductor
Voltage Level : 100KV					Outage Type PLANNED OUTAGE
Chinchwad - Talegaon	25/11/2011	11.29		Continued.	Line Strengthening.
Voltage Level : 400KV					Outage Type HAND TRIPPED
400/220 KV 100 MVA Spare Unit @ Koradi	17/11/2011	20.32		Continued.	Buccolz alarm problem.
400/220KV,500MVA ICT-II at Khaparkhedha.	20/11/2011	08.02		Continued.	Due to low nitrogen pressure fire alarm received.
Karad - Kolhapur - II	29/11/2011	16.20		Continued.	H/T For O/V
Voltage Level : 400KV					Outage Type TRIPPED
400/220 KV 315 MVA ICT-I @ Dhule	30/11/2011	17.00	30/11/2011	17.40	Bus Fault @ 400 KV Dhule.
400/220 KV 315 MVA ICT-II @ Dhule	30/11/2011	17.00	30/11/2011	17.40	Bus Fault @ 400 KV Dhule.
Dhule - Babaleshwar - II	30/11/2011	17.00	30/11/2011	17.48	Bus Fault @ 400 KV Dhule.
Main Bus- I @ Dhule	30/11/2011	17.00	30/11/2011	17.39	Bus Fault @ 400 KV Dhule.
Voltage Level : 220KV					Outage Type TRIPPED
Bombay Dyeing - Sahara	30/11/2011	09.25	30/11/2011	12.20	B Ph.P T Burst @ Sahara S/S.
Sahara-Urse	30/11/2011	09.25	30/11/2011	10.23	B Ph.P T Burst @ Sahara S/S.
Dhule - Dondaicha	30/11/2011	17.03	30/11/2011	17.52	Bus Bar Protection Operated.
Dhule - Amalner	30/11/2011	17.03	30/11/2011	17.50	Bus Bar Protection Operated.
Dhule - Malegaon	30/11/2011	17.03	30/11/2011	17.45	Bus Bar Protection Operated.
Dhule - Dhule - I	30/11/2011	17.03	30/11/2011	17.52	To 400KV Dhule-SSNL-I Breaker B Ph.Pole Burst @ 400KV Dhule S/S.
Dondaicha - Jamde - I	30/11/2011	17.03	30/11/2011	17.57	To 400KV Dhule-SSNL-I Breaker B Ph.Pole Burst @ 400KV Dhule S/S
Dondaicha - Jamde - II.	30/11/2011	17.03	30/11/2011	17.58	To 400KV Dhule-SSNL-I Breaker B Ph.Pole Burst @ 400KV Dhule S/S
Valve-Jamde	30/11/2011	17.03	30/11/2011	17.59	To 400KV Dhule-SSNL-I Breaker B Ph.Pole Burst @ 400KV Dhule S/S
Dhule - Dhule - II	30/11/2011	17.03	30/11/2011	17.52	To 400KV Dhule-SSNL-I Breaker B Ph.Pole Burst @ 400KV Dhule S/S

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 01/Dec/2011

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 5	200	135
Unit 6	210	110
Unit 7	210	115
	620	360
Bhusawal		
Unit 2	210	180
Unit 3	210	190
Unit 4	500	
	920	370
Parli		
Unit 3	210	0
Unit 4	210	175
Unit 5	210	0
Unit 6	250	185
Unit 7	250	180
	1130	540
Chandrapur		
Unit 1	210	160
Unit 2	210	0
Unit 3	210	185
Unit 4	210	200
Unit 5	500	450
Unit 6	500	460
Unit 7	500	400
	2340	1855
Paras		
Unit 3	250	150
Unit 4	250	150
	500	300
Khaparkheda		
Unit 1	210	180
Unit 2	210	180
Unit 3	210	180
Unit 4	210	180
Unit 5	500	
	1340	720
Nasik		
Unit 3	210	192
Unit 4	210	192
Unit 5	210	162
	630	546
Uran		
All Units	852	630
	852	630
PENCH (MS)		
Pench (MS)	53	
	53	
Koyna		
Stage 1-2	600	600
Stage 4	1000	250
Stage 3	320	320
	1920	1170
Hydro		
KDPH	40	20
VTRNA	60	0
TILLARI	60	0

Generating unit	Derated Capacity (MW)	OLC (MW)
BHTGR/VEER	21	22
BHIRA T.R.	80	80
RNGR+BHTSA	20	17
BHANDARDRA	45	0
ELDARY	23	
SMLHY PTN	12	11
GHATGHAR	250	
	611	150
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	600	1100
WARDHA	405	360
Other CPPs	0	
	1005	1460
Tata		
Trombay 4	150	0
Trombay 5	500	495
Trombay 6	500	500
Trombay 7A	120	120
Trombay 7B	60	60
Trombay 8	250	250
TATA Hydro	444	447
	2024	1872
REL		
1&2	500	500
	500	500
Cent Sect		
Share	3455	5006
	3455	5006

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