



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

State Load Dispatch Center, Airoli

Daily system Report

for

16/Sep/2010

State Load Dispatch Center, Airoli (MSETCL)
Daily system Report for 16/Sep/2010 THURSDAY

I GENERATION (MUs)			II EXCHANGES (MUs)		
A) MSGENCO	Daily	Monthly	E) Central Sector	Daily	Monthly
1) Thermal	70.224	1034.310	1) Madhya Pradesh	71.022	858.900
2) Hydro	6.926	133.609	2) Gujrat	31.443	481.788
3) Gas	16.002	249.212	3) Goa	-5.545	-87.586
Total MSGENCO	93.152	1417.131	4) TAPS 1&2 (Inj.)	7.074	119.194
B) OTHERS			5) Pench (Excess)	-0.257	-1.873
1) RGPPL Gas	36.996	569.849	# Total Cent. Sector	103.737	1370.423
2) Wind Generation	8.361	197.889	F) Other Exchanges		
3) CPP / IPP	8.261	158.918	1) With TPCL (Excess)	-11.845	-151.038
4) PENCH (MS)	0.257	1.873	G) Bilateral Power *		
C) TPCL & REL			1) MSEDCL Bilateral	9.736	105.355
1) TPCL Thermal	24.930	370.402	Include PX	5.760	79.834
2) TPCL Hydro	4.157	80.593	2) MUMBAI Bilateral	12.352	162.383
TOTAL TPCL	29.087	450.995	Include PX	2.076	28.571
3) REL Thermal	12.552	200.757	3) MUMBAI Schedule	12.352	162.383
D) STATE			H) ENERGY CATERED (MUs)		
1) Thermal (A1+C1+C3)	107.706	1605.469	1) MSEDCL	238.919	3565.045
2) Hydro (A2+B3+C2)	11.340	216.075	2) TPCL	35.725	533.570
3) Gas (A3+B1)	52.998	819.061	3) REL	17.758	269.305
4) Wind (B2)	8.361	197.889	TOTAL STATE	292.402	4367.920
5) CPP (B3)	8.261	158.918			
TOTAL STATE	188.666	2997.412			

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	2956	2834	2979
MSGENCO Hydro	247	1006	129
MSGENCO Gas	678	657	671
MSGENCO Total Generation	3881	4497	3779
Central Sector Receipt	4754	4745	3665
RGPPL	1534	1533	1554
WIND	269	423	359
CPP / IPP	353	348	337
Exchange with TPCL	-751	-596	-234
MSEDCL DEMAND MET	10040	11003	9460
Load Shedding	2029	2883	0
MSEDCL DEMAND (INCL. LS)	12069	13886	9460
TPCL GENERATION	1457	1452	892
REL GENERATION	525	522	525
TPCL+REL DEMAND	2733	2570	1651
STATE DEMAND MET	12773	13573	11111
STATE DEMAND (INCL. LS)	14802	16456	11111
Frequency (Hz)	49.97	49.69	50.13
MSEDCL's Max Demand-Supply Gap (excluding UI, D.A.Power & Unsch.Hyd.Gen)			4001 MW AT 19.00 HRS
MSEDCL's Dem.-Supply Gap for day (excluding UI, D.A.Power & Unsch.Hyd.Gen)			57.57 MUS

FREQUENCY PARTICULARS

MAXIMUM FREQ.	MINIMUM FREQ.	AVERAGE FREQ.	FREQ. BELOW 49Hz
50.51 Hz at 03.44 Hrs	49.17 Hz at 19.34 Hrs	50.04	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/Sep/2010

Generating unit	Generation				OLC (MW)
	Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Koradi					
Unit 1	1.37	12.66	71	25	70
Unit 2	1.45	15.58	73	40	50
Unit 3	1.45	21.75	70	51	60
Unit 4	0.00	0.00	0	0	0
Unit 5	0.00	28.62	0	0	0
Unit 6	3.42	40.95	160	126	150
Unit 7	3.81	52.27	175	140	155
	11.51	171.83			485
Bhusawal					
Unit 1	0.00	0.64	0	0	0
Unit 2	2.04	31.04	140	50	120
Unit 3	1.96	19.57	135	0	150
	4.00	51.24			270
Parli					
Unit 1	0.00	0.00	0	0	0
Unit 2	0.27	2.82	20	0	20
Unit 3	2.64	19.16	137	78	100
Unit 4	2.66	47.25	152	86	120
Unit 5	2.47	37.21	109	95	110
Unit 6	0.00	41.93	0	0	0
Unit 7	0.00	17.89	0	0	0
	8.03	166.26			350
Chandrapur					
Unit 1	2.78	27.34	127	90	130
Unit 2	1.48	16.09	85	25	50
Unit 3	0.00	12.20	0	0	0
Unit 4	1.97	13.47	118	46	140
Unit 5	6.23	81.47	310	205	300
Unit 6	6.45	59.37	320	200	325
Unit 7	3.25	40.07	173	110	120
	22.16	250.01			1065
Paras					
Unit 2	0.88	9.49	40	31	40
Unit 3	2.06	32.74	126	50	120
Unit 4	2.14	27.93	136	50	120
	5.08	70.16			280
Khaparkheda					
Unit 1	4.02	70.90	190	140	180
Unit 2	0.00	0.00	0	0	0
Unit 3	3.60	67.04	186	127	150
Unit 4	3.37	46.28	156	124	160
	10.99	184.22			490
Nasik					
Unit 1	1.77	18.68	83	65	76
Unit 2	0.00	11.52	0	0	0
Unit 3	3.18	31.81	165	85	142
Unit 4	0.00	42.02	0	0	0
Unit 5	3.50	36.56	166	116	132
	8.45	140.59			350
Koyna					
Stage 1-2	2.65	31.52	505	35	600
Stage 4		0.00	0	0	0
Stage 3	0.68	15.44	292	0	320
	3.33	46.96			920
Kovna 12&4 Total	2.65	31.52			600

Generating unit		Generation				OLC (MW)
		Daily (Mus)	Monthly (Mus)	Max (MW)	Min (MW)	
Uran						
All Units		16.00	249.21	684	637	640
		16.00	249.21			640
Hydro						
KDPH		0.00	13.54	0	0	36
VTRNA		0.15	5.43	61	0	60
TILLARI		0.14	4.83	42	0	60
BHTGR/VEER		0.10	2.64	4	4	7
BHIRA T.R.		0.33	7.04	41	0	40
RNGR+BHTSA		0.46	6.43	19	19	15
BHANDARDRA		0.57	10.32	34	15	20
ELDARY		0.50	8.38	22	20	25
SMLHY PTN		0.79	13.97	40	30	10
GHATGHAR		0.57	14.07	125	0	0
		3.59	86.65			273
PENCH (MS)						
Pench (MS)		0.26	1.87	53	0	0
		0.26	1.87			0
Wind						
MalharPeth		0.34	9.72			
Vankuswadi		0.71	19.70			
ATIT		0.32	7.61			
Kale		0.22	7.81			
Satara		0.58	19.13			
Shirala		0.28	7.06			
K Mahankal		0.18	7.60			
Supa		0.02	2.91			
Vita		0.93	33.40			
Dondaicha		3.16	45.38			
Sakri		0.48	9.79			
Nandurbar		0.39	5.28			
Khandke		0.29	12.92			
Khaparale		0.47	9.59			
		8.36	197.89			
CPP						
TOTAL CPP		8.26	158.92			
		8.26	158.92			
Dabhol						
RGPPL		37.00	569.85	1560	1522	1584
		37.00	569.85			1584
Tata						
Trombay 4		0.00	0.00	0	0	0
Trombay 5		11.42	150.48	500	380	500
Trombay 6		4.22	69.22	240	150	500
Trombay 7A		2.95	46.67	124	122	120
Trombay 7B		1.63	25.81	68	67	60
Trombay 8		4.71	78.22	225	151	250
TATA Hydro		4.16	80.59	351	0	447
		29.09	451.00			1877
REL						
1&2		12.55	200.76	527	505	500
		12.55	200.76			500
Cent Sect						
Share						3870
						3870
MS PG CL	Thermal	70.22	1034.31			3290
	Thml+Gas	86.23	1283.52			3930
	Hydro	6.93	133.61			1193
	Total	93.15	1417.13			5123
State Total		188.67	2997.41			12954

State Load Dispatch Center,Airoli (MSETCL)

Hourly Load Data As on 16/Sep/2010

TIME SR. NO.	MSPGCL GEN.			TOTAL	RGPPL	WIND	CPP / IPP	CS SHARE	CS RECPT	TPCL SCH.	TPCL NET EXCH.	MSEDCL DEMAND MET	# LOAD SHED.	MSEDCL DEMAND WITH LS	TPCL + REL DEMAND	STATE DEM. WITH LS	FREQ. (Hz)
	THM	HY	GAS														
1	2800	129	660	3589	1550	362	340	3577	4147	-432	-409	9579	987	10566	1901	12467	49.98
2	2938	129	666	3733	1553	298	339	3483	3796	-336	-309	9410	909	10319	1751	12070	50.12
3	2979	129	671	3779	1554	359	337	3419	3665	-268	-234	9460	0	9460	1651	11111	50.13
4	3028	133	672	3833	1560	317	334	3379	3837	-197	-171	9710	0	9710	1560	11270	50.31
5	3009	143	668	3820	1559	342	337	3420	3824	-197	-163	9719	0	9719	1576	11295	50.23
6	3112	128	675	3915	1534	312	335	3457	4118	-197	-166	10048	5	10053	1642	11695	49.97
7	3157	134	680	3971	1533	242	335	3795	4192	-343	-316	9957	1293	11250	1822	13072	50.07
8	3181	128	680	3989	1541	240	337	3791	4418	-343	-329	10196	1345	11541	1868	13409	50.08
9	3101	161	673	3935	1551	257	330	3938	4703	-489	-464	10312	1536	11848	2147	13995	50.14
10	3000	297	684	3981	1542	307	334	4040	4649	-584	-558	10255	1679	11934	2430	14364	50.02
11	3017	285	677	3979	1543	266	330	4247	4737	-780	-759	10096	1863	11959	2696	14655	50.11
12	2956	247	678	3881	1534	269	353	4245	4754	-762	-751	10040	2029	12069	2733	14802	49.97
13	2811	150	677	3638	1536	199	347	4236	4752	-762	-777	9695	2317	12012	2730	14742	50.12
14	2806	160	670	3636	1534	235	365	4109	4595	-642	-658	9707	2232	11939	2600	14539	50.09
15	2761	174	667	3602	1532	372	354	4108	4437	-642	-639	9658	2380	12038	2590	14628	50.06
16	2717	158	651	3526	1535	480	355	4126	4042	-642	-642	9296	2378	11674	2591	14265	50.12
17	2840	158	648	3646	1532	513	353	4132	4382	-642	-636	9790	2238	12028	2580	14608	49.99
18	2808	273	657	3738	1534	543	352	4124	4332	-642	-633	9866	2308	12174	2540	14714	49.92
19	2860	536	637	4033	1536	510	357	3906	4213	-510	-520	10169	3085	13254	2450	15704	49.79
20	2834	1006	657	4497	1533	423	348	3978	4745	-626	-596	11003	2883	13886	2570	16456	49.69
21	2854	976	659	4489	1539	345	345	4106	4573	-650	-608	10736	2783	13519	2487	16006	49.86
22	2923	740	661	4324	1522	392	344	4146	4362	-595	-542	10422	2708	13130	2319	15449	50.07
23	2902	339	662	3903	1551	422	352	3996	4480	-543	-493	10268	2153	12421	2195	14616	49.94
24	2830	213	672	3715	1558	356	348	3893	3984	-525	-472	9527	1800	11327	2055	13382	50.12
MUs	70.22	6.93	16.00	93.15	37.00	8.36	8.26	93.65	103.74	-12.35	-11.84	238.92	40.91	279.83	53.48	333.31	50.04

NOTE : ALL VALUES IN MW

TPCL Sch./Net Exch is shown with reference to MSETCL System. (+) indicates TPCL to MSETCL and (-) indicates MSETCL to TPCL. TPCL 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 16/Sep/2010

Position as on 6.30 Hrs of 17/Sep/2010

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)	30/12/2010
Koyna ST-IV 1	250	16/07/2010	00.00		Continued.	Preparing Work for 2nd Lake Tapping.	15/11/2010
Koyna ST-IV 2	250	16/07/2010	00.00		Continued.	Preparing Work for 2nd Lake Tapping.	15/11/2010
Koyna ST - IV 4	250	16/07/2010	00.00		Continued.	Preparing Work for 2nd Lake Tapping.	15/11/2010
Koyna ST - IV 3	250	16/07/2010	00.00		Continued.	Preparing Work for 2nd Lake Tapping.	15/11/2010
Cent_Sect KARPR2	220	14/08/2010	14:16		Continued.	Annual Overhaul.	08/09/2010
Cent_Sect NTPC(V-8)	500	20/08/2010	00.46	16/09/2010	17.39	Annual Overhaul	
Koradi Unit 4	115	24/08/2010	06.02		Continued.	Annual Overhaul.	05/10/2010
Khaparkheda Unit 2	210	27/08/2010	23.40		Continued.	Capital Overhaul	05/10/2010
Nasik Unit 4	210	15/09/2010	10.55		Continued.	Annual Overhaul.	10/10/2010
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.	
Parli Unit 1	30	18/06/2010	12:11		Continued.	For Scrapping.	
Dabhol 2A	230	12/07/2010	01.55		Continued.	Tripped due to Electrical Fault	30/09/2010
Bhusawal Unit 1	58	01/09/2010	23.30		Continued.	Wet Coal	18/09/2010
Nasik Unit 2	125	10/09/2010	01.00		Continued.	Bunkering Problem.	18/09/2010
Koradi Unit 5	200	13/09/2010	14.39		Continued.	Condensor T/L.	18/09/2010
Parli Unit 7	250	14/09/2010	20.28	17/09/2010	05.54	Bunkering Problem	
Chandrapur Unit 3	210	14/09/2010	23.38		Continued.	Furnance Pressure High	
Parli Unit 6	250	15/09/2010	07.30		Continued.	Coal Shortage.	
Bhusawal Unit 3	210	16/09/2010	12.25	16/09/2010	14.30	Furnace Pressure High.	
Parli Unit 2	30	16/09/2010	15.20		Continued.	Furnace Pressure High.	
Uran Unit 6	108	17/09/2010	00.37	17/09/2010	05.04	Excitation X'mer Problem.	
Parli Unit 3	210	17/09/2010	05.33		Continued.	Furnance Pressure High	
Bhusawal Unit 3	210	17/09/2010	06.15		Continued.	Tripped.	

State Load Dispatch Center, Airoli (MSETCL)
Details of Line outages/Trippings for 16/Sep/2010

Position as on 6.30 Hrs of 17/Sep/2010

Name of Line	Tripped Date	Tripped Time	Synchronised Date	Synchronised Time	Reason of Outage
InterState					
Voltage Level : 400KV			Outage Type FORCED OUTAGE		
Dhule-Sar'Sarovar - I	14/09/2010	18.22	16/09/2010	08.20	To attend Reactor Oil Leakage,line is ready for charging
Voltage Level : 400KV			Outage Type HAND TRIPPED		
Akola - Aurangabad - II	04/09/2010	12.29		Continued.	Over Voltage.
Kolhapur - Mapusa - I	06/09/2010	17.51		Continued.	Over Voltage
Dhule-Khandwa-I	16/09/2010	01.42	16/09/2010	08.44	Over Voltage
Voltage Level : 400KV			Outage Type TRIPPED		
Akola - Wardha - II	01/09/2010	01.48		Continued.	Over Voltage.
Dhule-Sar'Sarovar - I	16/09/2010	17.10		Continued.	PRV of reactor operated.
IntraState					
Voltage Level : 400KV			Outage Type PLANNED OUTAGE		
50 MVAR Reactor of Chandrpur - Parli - II @ Parli	12/08/2009	10.15		Continued.	Bushing Problem.
Main Bus-I At Stage-4 Koyna.	12/08/2010	11.50		Continued.	Routine Maintainance Work.
400/220KV 315 MVA ICT-II at Korady	16/09/2010	10.16	16/09/2010	16.42	Attending oil leakage of Bkr.
Voltage Level : 220KV			Outage Type PLANNED OUTAGE		
220/100KV 125MVA ICT-IV @ Kalwa	02/08/2010	10.10		Continued.	Repl.125 MVA ICT by 200 MVA New ICT.
220/100 125 MVA ICT - II @ Trombay	23/08/2010	12.17		Continued.	Dismantling of existing ICT and commissioning of New 200MVA ICT
220/6.6 KV Stn Tr - II @ K'Kheda	06/09/2010	08.58		Continued.	Annual Maint.of Bay
Chinchwad - Telco	16/09/2010	10.10	16/09/2010	12.09	Taurus Measurement.
Bhosari-C'enka	16/09/2010	11.05	16/09/2010	16.07	Q.M.Work
Chinchwad-Bhosari	16/09/2010	13.12	16/09/2010	15.23	Taurus Measurement.
Chinchwad - Parvati	16/09/2010	15.48	16/09/2010	17.19	Taurus Measurement.
Voltage Level : 132KV			Outage Type PLANNED OUTAGE		
Bhandara-Kardha	13/09/2010	10.00		Continued.	Breaker replacement.
Voltage Level : 400KV			Outage Type FORCED OUTAGE		
Dabhol-Nagothane-II	16/09/2010	17.03		Continued.	Red Hot.
Voltage Level : 220KV			Outage Type FORCED OUTAGE		
220/22 KV,50 MVA T/F - I @ Lonikand	15/09/2010	23.50	16/09/2010	01.45	To attend Hot Spot.
220/132KV,200MVA ICT-I at Malegaon	16/09/2010	08.55	16/09/2010	19.40	Bus Maintainance work.
Lonikand-Theur - I	16/09/2010	09.20	16/09/2010	14.21	Attending hot spot on Y-Ph CT.
Voltage Level : 400KV			Outage Type HAND TRIPPED		
80 MVAR Line Reactor of Lonikand - Karad @ Karad	04/03/2010	11.58		Continued.	Red Hot Spot Observed on Earthing.
Karad-Lamboti	15/09/2010	00.39	16/09/2010	07.49	Over Voltage(Y-Ph line CT Replacement, ready for charging at 18.36 Hrs)
Karad - Kolhapur - I	15/09/2010	23.49		Continued.	Over Voltage
Lonikand- Koyna Stage IV	16/09/2010	01.18	16/09/2010	07.40	Over Voltage
Karad-Lamboti	16/09/2010	23.17		Continued.	Over Voltage.

State Load Dispatch Center,Airoli (MSETCL)
Details of Line outages/Trippings for 16/Sep/2010

Position as on 6.30 Hrs of 17/Sep/2010

Name of Line	Tripped Date	Tripped Time	Synchronise d Date	Synchronise d Time	Reason of Outage
Lonikand- Koyna Stage IV	17/09/2010	00.06		Continued.	Over Voltage.
Voltage Level : 220KV			Outage Type HAND TRIPPED		
Apta-Nagothane	16/09/2010	12.46	16/09/2010	13.42	PT supply problem at Apta end.
Voltage Level : 400KV			Outage Type TRIPPED		
Bhusawal- Aurangabad	06/09/2010	22.45		Continued.	Over Voltage
New Koyna - StageIV - I	15/09/2010	15.58	15/09/2010	Continued.	PDR Operated at Stage IV only.
Dabhol-Nagothane - II	16/09/2010	11.11	16/09/2010	15.57	Dist.Protection.
Padgha - Babaleshwar - II	16/09/2010	12.01	16/09/2010	12.28	Dist.protection.
Karad-Kolhapur-II	17/09/2010	01.58		Continued.	Over Voltage.
Voltage Level : 220KV			Outage Type TRIPPED		
220/132 KV 200 MVA ICT - II @ Theur	01/06/2010	03.57		Continued.	Oil Tank Burst.
220/100KV 200MVA T/F-II @APTA	15/08/2010	21.10		Continued.	Tripped on Diff.Prot.CTR system operated.
Apta-Uran-III	16/09/2010	05.35	16/09/2010	11.43	Dist.Protection.
Lamboti - Pandharpur	16/09/2010	15.35	16/09/2010	16.19	Without indication.
Kalmeshwar-Nippon	16/09/2010	17.23	16/09/2010	18.20	Under Voltage, Tripping at Nippon end only.
220/100KV 125 MVA ICT-I @ Kalwa	17/09/2010	03.50	17/09/2010	04.48	Without indication, LV side relay problem.
Voltage Level : 132KV			Outage Type TRIPPED		
A A Energy - Wadsa	16/09/2010	00.33	16/09/2010	00.55	Dist protection operated Z-I
Kanhan - Mansar.	16/09/2010	02.06	16/09/2010	03.24	.Dist protection operated Z-I
Bhandara - Madgi - II	16/09/2010	03.16	16/09/2010	03.30	Dist protection operated Z-I

State Load Dispatch Center,Airoli (MSETCL)

Details of On Line Capacity for 17/Sep/2010

Generating unit	Derated Capacity (MW)	OLC (MW)
Koradi		
Unit 1	105	60
Unit 2	105	50
Unit 3	105	65
Unit 4	105	0
Unit 5	200	0
Unit 6	210	155
Unit 7	210	165
	1040	495
Bhusawal		
Unit 1	58	0
Unit 2	210	80
Unit 3	210	80
	478	160
Parli		
Unit 1	30	0
Unit 2	30	0
Unit 3	210	50
Unit 4	210	100
Unit 5	210	100
Unit 6	250	0
Unit 7	250	0
	1190	250
Chandrapur		
Unit 1	210	100
Unit 2	210	60
Unit 3	210	0
Unit 4	210	100
Unit 5	500	250
Unit 6	500	300
Unit 7	500	120
	2340	930
Paras		
Unit 2	55	40
Unit 3	250	120
Unit 4	250	120
	555	280
Khaparkheda		
Unit 1	210	120
Unit 2	210	0
Unit 3	210	195
Unit 4	210	160
	840	475
Nasik		
Unit 1	120	75
Unit 2	120	0
Unit 3	210	130
Unit 4	210	0
Unit 5	210	140
	870	345
Koyna		
Stage 1-2	600	600
Stage 4	1000	0
Stage 3	320	320
	1920	920
Uran		
All Units	852	640

Generating unit	Derated Capacity (MW)	OLC (MW)
	852	640
Hydro		
KDPH	40	0
VTRNA	60	60
TILLARI	60	60
BHTGR/VEER	21	4
BHIRA T.R.	80	40
RNGR+BHTSA	20	17
BHANDARDRA	45	26
ELDARY	23	20
SMLHY PTN	12	10
GHATGHAR	250	0
	611	237
PENCH (MS)		
Pench (MS)	53	0
	53	0
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	1575
	960	1575
Tata		
Trombay 4	150	0
Trombay 5	500	500
Trombay 6	500	500
Trombay 7A	120	120
Trombay 7B	60	60
Trombay 8	250	250
TATA Hydro	444	447
	2024	1877
REL		
1&2	500	500
	500	500
Cent Sect		
Share	3143	4354
	3143	4354