3.4 Solid Waste Amount Survey in the Thilafushi

3.4.1 Purpose

The Thilafushi receive wastes not only from Male' but also receive wastes transported directly from resort islands, Hulhule and several inhabited islands nearby and the wastes carried from these islands are not a few amount. The survey was conducted to investigate the amount and types of wastes transported directly by Dhoni or by Barges from all the islands entering to the Thilafushi disposal site for the intention to use the survey data as one of the important elements for drawing up the improvement plan for waste disposal.

Accordingly the survey was carried out to obtain the data show as follows.

- Daily waste amount carried in to the Thilafushi except for MCPW Barge
- Waste amount by island during the survey period
- Major types of wastes carried in to the Thilafushi

3.4.2 Survey Period

The survey was conducted from 8 July to 11 August, 1998 and took the data for 32 days.

3.4.3 Procedures of Survey

A surveyor was assigned to stay at Thilafushi from 6:00 to 18:00 hours every day to watch the Dhoni entering to the quay. The data was taken by the items for the name of the resort island, arrival & departure times, type of vessel, nos. of crew, type of wastes, and the dimension of waste heap loaded. Types of wastes and dimension of waste amount was made by sighting the waste and hearing from the boatman.

3.4.4 Survey Data

Summary of Amount of Waste Transported Directly to Thilafushi

No.	Date		Nos. of Boat Arrival (boat)	Unloading Time (min.)	Estimated Weight (ton/day)	Reference (Total SW weight estimated by the numbers of trip times by truck in Thilafushi)			
	Day	Month Day of the Week				No. of Times of Houling by Truck in a day	Estimated Weight (ton/day)	Balance	Ratio to the estimated weight by Dhoni (%)
1	8	7 Wed	14	43	25.13	13	26.00	-1	97
2	9	7 Thu	6	26	8.35	9	18.00	-10	46
3	10	7 Fri	7	34	9.84	8	16.00	-6	61
4	11	7 Sat	9	50	32.00	10	20.00	12	160
5	12	7 Sun	7	44	13.42	9	18.00	-5	75
6	13	7 Mon	7	53	8.10	8	16.00	-8	51
7	14	7 Tue	3	26	3.56	2	4.00	-0	89
8	15	7 Wed	8	47	15.77	7	14.00	2	113
9	16	7 Thu	13	41	15.68	10	20.00	-4	78
10	17	7 Fri	5	50	5.70	3	6.00	-0	95
11	18	7 Sat	8	39	17.16	5	10.00	7	172
12	19	7 Sun	8	28	8.33			8	
13	20	7 Mon	11	45	24.10			24	
14	21	7 Tue	9	29	16.00	12	24.00	-8	67
15	22	7 Wed	9	49	22.85			23	
16	23	7 Thu	5	32	7.11			7	
17	25	7 Sat	11	35	23.44			23	
18	26	7 Sun	10	20	11.39			11	
19	27	7 Mon	7	32	18.73			19	
20	28	7 Tue	10	27	18.05			18	
21	29	7 Wed	7	43	8.94			9	
22	30	7 Thu	13	27	10.94			11	
23	31	7 Fri	9	27	9.43			9	
24	2	8 Sun	9	28	8.91			9	
25	3	8 Mon	15	36	16.79			17	
26	4	8 Tue	13	29	11.71	14	28.00	-16	42
27	5	8 Wed	12	34	12.59	13	26.00	-13	48
28	6	8 Thu	13	34	14.78	13	26.00	-11	57
29	8	8 Sat	12	26	11.76	23	46.00	-34	26
30	9	8 Sun	10	32	18.11	8	16.00	2	113
31	10	8 Mon	9	39	10.90				
32	11	8 Tue	13	30	14.00				
Total			302	1,135	453.57	167	334	95	1,389
Maximum			15	53	32.00	23.00	46.00	24	172
Average			9	35	14.17	9.82	19.65	3	82
Minimi			3	20	3.56	2	4	-34	26
Average Loading Weight (ton/boat)					1.50				

Waste Amount Transported to Thilafushi by Island

Survey Period: 07/July/1998 - 11/August/98

Name of Island	Nos. of Times of Transportation	Waste Amount (ton)	Waste Amount per Time (ton)
Aarah	3	2.33	0.78
Abeeru	1	0.26	0.26
Allaarei	1	0.78	0.78
Ariadhoo	1	4.86	4.86
Bahadu	2	1.75	0.87
Bandos	12	24.77	2.06
Banyan Tree	1	0.39	0.39
Baros	6	9.57	1.60
Bodubitbi	5	6.88	1.38
Embudhu finolhu	9	14.22	1.58
Faanody	4	4.75	1.19
Fihaalhohi	1	0.73	0.73
Fullmoon	29	14.84	0.51
Fun Island	8	9.82	1.23
Gangehi	1	1.17	1.17
Hulhule	64	90.79	1.42
Ihuru	3	3.94	1.31
Kanifinolhu	4	30.33	7.58
Kudabitbi	1	1.17	1.17
Kudahuraa	20	26.37	1.32
Kudaveli	2	1.94	0.97
Kuramathi	4	45.68	11.42
Kurumba	38	52.20	1.37
Lagoona	2	5.36	2.68
Legun	1	1.56	1.56
Makunudhoo	4	10.76	2.69
Muun	1	0.49	0.49
Nakachafushi	11	16.03	1.46
Paanode	1	0.78	0.78
Paradise	6	6.89	1.15
Rangali	3	4.88	1.63
Rannalhi	1	2.98	2.98
samaradhiyarafushi	1	1.46	1.46
Sawdaady	1	0.26	0.26
Taaj Lagoon	3	2.61	0.87
Taitanu	1	2.33	2.33
Thari Village	1	0.39	0.39
Thulhaagiri	12	18.85	1.57
Vaadhoo	10	9.55	0.96
Vabbinfaru	21	17.64	0.84
Unknown	2	1.25	0.62
Total	302	453.57	1.50

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 1)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
8	7	98	Fullmoon	645	700	15	Food	Yard	Bottle	etc.	4	Boat	5	7	2	1.89	0.57
8	7	98	Kurunba	700	720	20	Food	etc.			3	Dhoni	4	6	0.5	0.32	0.10
8	7	98	Boduhithi	910	940	30	Yard	etc.			3	Dhoni	6	10	2	3.24	0.97
8	7	98	Boduhithi	910	1030	80	Yard	etc.			3	Dhoni	6	11	2.5	4.46	1.34
8	7	98	Embudhu finolhu	1030	1100	30	Yard	Food	Bottle	etc.	3	Boat	4	8	1.5	1.30	0.39
8	7	98	Hulhule	910	1000	50	Yard	Wood	etc.		6	Boat	7	9	3.5	5.95	1.79
8	7	98	Kurunba	1425	1510	45	Yard	Wood	etc.		6	Dhoni	10	20	3	16.20	4.86
8	7	98	Bandos	1530	1615	45	palm leaf	Yard	etc.		4	Dhoni	7	12	5	11.34	3.40
8	7	98	Embudhu finolhu	1700	1730	30	Yard	etc.			3	Dhoni	6	15	3	7.29	2.19
8	7	98	Pradise	1030	1130	60	tin cans	Bottle	etc.		6	Dhoni	7	13	3.5	8.60	2.58
8	7	98	Nakacha	1000	1100	60	Yard	etc.			2	Dhoni	5	7	2	1.89	0.57
8	7	98	Kudahuraa	1100	1145	5	Yard	etc.			5	Dhoni	6.5	9	3.5	5.53	1.66
8	7	98	Hulhule	1045	1215	90	Yard	etc.			6	Boat	7	8	4	6.05	1.81
8	7	98	Thulhaagiri	1220	1300	40	Wood	etc.			4	Dhoni	6	12	5	9.72	2.92
			Average/Total			43										83.77	25.13
9	7	98	Fullmoon	715	735	20	Food				4	Boat	5	8	2.5	2.70	0.81
9	7	98	Kurunba	715	730	15	Food				3	Dhoni	4	5	1.5	0.81	0.24
9	7	98	Hulhule	900	925	25	Wood				8	Boat	6	7	4.5	5.10	1.53
9	7	98	Boross	950	1015	25	Yard				3	Dhoni	5	8	3	3.24	0.97
9	7	98	Fun Island	1050	1130	40	Yard	etc.			6	Dhoni	8	20	2.5	10.80	3.24
9	7	98	Hulhule	1330	1400	30	Yard	etc.			8	Boat	6	8	4	5.18	1.56
			Average/Total			26										27.84	8.35
10	7	98	Kudahuraa	930	1000	30	Yard	etc.			3	Dhoni	6	12	2.5	4.86	1.46
10	7	98	Vadhoo	1020	1050	30	Yard	etc.			4	Dhoni	6	8	2	2.59	0.78
10	7	98	Hulhule	1115	1150	35	Yard	etc.			7	Boat	6	7	3.5	3.97	1.19
10	7	98	Baros	1415	1445	30	Yard	etc.			3	Boat	6	9	2	2.92	0.87
10	7	98	Fun Island	1415	1450	35	Yard	etc.			4	Dhoni	5	8	2.5	2.70	0.81
10	7	98	Lagoona	1645	1730	45	Yard	etc.			11	Dhoni	7	15	3.5	9.92	2.98
10	7	98	Hulhule	1715	1745	30	Yard	etc.			3	Dhoni	6	12	3	5.83	1.75
			Average/Total			34										32.79	9.84

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 2)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
11	7	98	Kurunba	645	710	25	Food				3	Dhoni	4	6	2	1.30	0.39
11	7	98	Fullmoon	630	700	30	Food				4	Boat	5	7	2.5	2.36	0.71
11	7	98	Kurumba	1450	1530	40	Yard	etc			4	Dhoni	13	23	4	32.29	9.69
11	7	98	Embudhu finolhu	1440	1505	25	Yard	etc			2	Dhoni	6	12	2	3.89	1.17
11	7	98	Rangali	1315	1400	45	Yard	etc			7	Boat	7	10	5	9.45	2.84
11	7	98	Kani finolhu	1125	1315	110	Yard	etc			10	Dhoni	11	25	5	37.13	11.14
11	7	98	Embudhu finolhu	1100	1125	25	Yard	etc			3	Dhoni	7	8	3	4.54	1.36
11	7	98	Bandos	835	1030	115	Yard	etc			3	Dhoni	6	10	4.5	7.29	2.19
11	7	98	Bandos	835	910	35	Yard	etc			3	Dhoni	6	13	4	8.42	2.53
			Average/Total			50										106.66	32.00
12	7	98	Kurumba	710	730	20	Food	etc			3	Dhoni	4.5	7	1.5	1.28	0.38
12	7	98	Fullmoon	645	700	15	Food	etc			4	Boat	5	8	2	2.16	0.65
12	7	98	Bandos	808	920	72	Yard	etc			4	Dhoni	7	13	4	9.83	2.95
12	7	98	Hulhule	1010	1050	40	Food	Yard			7	Boat	7	10	4	7.56	2.27
12	7	98	Thulhaagiri	1100	1120	20	Yard				3	Dhoni	6	8	2.5	3.24	0.97
12	7	98	Thulhaagiri	1145	1210	65	Yard	etc			2	Dhoni	6	9	2.5	3.65	1.09
12	7	98	Bandos	1145	1220	75	Yard	etc			4	Dhoni	7	15	6	17.01	5.10
			Average/Total			44										44.72	13.42
13	7	98	Kurumba	645	700	55	Food				3	Dhoni	4	6	1.5	0.97	0.29
13	7	98	Fullmoon	700	715	15	Food				4	Boat	6	8	1.5	1.94	0.58
13	7	98	Hulhule	1100	1130	30	Yard				6	Boat	7	7	2	2.65	0.79
13	7	98	Kurumba	1130	1220	50	Yard				4	Dhoni	6	15	3.5	8.51	2.55
13	7	98	Hulhule	1130	1300	170	Yard				5	Dhoni	5	10	5.5	7.43	2.23
13	7	98	Vabbinfaru	1415	1435	20	Yard				3	Dhoni	6	8	2.5	3.24	0.97
13	7	98	Thulhaagiri	1445	1515	30	Yard				2	Dhoni	6	7	2	2.27	0.68
			Average/Total			53										27.00	8.10
14	7	98	Kurumba	715	730	15	Food				4	Dhoni	5	8	2	2.16	0.65
14	7	98	Fullmoon	700	720	20	Food				3	Boat	6	10	2	3.24	0.97
14	7	98	Hulhule	1048	1130	42	Wood				6	Dhoni	8	10	3	6.48	1.94
			Average/Total			26										11.88	3.56

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 3)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
15	7	98	Kurumba	645	700	15	Food				3	Dhoni	5	6	1	0.81	0.24
15	7	98	Fullmoon	630	650	20	Food				4	Boat	5	8	2	2.16	0.65
15	7	98	Hulhule	1110	1150	40	Yard				7	Boat	7	10	6	11.34	3.40
15	7	98	Hulhule	1155	1215	20	Yard	etc			6	Dhoni	6	9	3.5	5.10	1.53
15	7	98	Nakachafushi	1220	1250	30	Yard	etc			3	Dhoni	7	12	3	6.80	2.04
15	7	98	Makunudhoo	1240	1350	110	Yard	etc			3	Dhoni	7	14	4	10.58	3.18
15	7	98	Vabbinfaru	1245	1303	58	Yard				3	Dhoni	6	13	3	6.32	1.90
15	7	98	Hulhule	1430	1515	85	Yard	etc			7	Boat	7	10	5	9.45	2.84
			Average/Total			47										52.57	15.77
16	7	98	Kurumba	645	700	15	Food				3	Dhoni	5	7	2	1.89	0.57
16	7	98	Enbudhu finolhu	845	920	35	Yard				3	Boat	6.5	8	3	4.21	1.26
16	7	98	Thulhaagiri	910	1000	50	Yard				3	Dhoni	6	8	2.5	3.24	0.97
16	7	98	Boduhithi	1050	1140	50	Yard				2	Dhoni	6	9	4	5.83	1.75
16	7	98	Kudahithi	1030	1120	50	Yard				2	Dhoni	6	8	3	3.89	1.17
16	7	98	Vabbinfaru	1215	1300	45	Yard				2	Dhoni	6	8	3	3.89	1.17
16	7	98	Hulhule	1235	1415	100	Yard				5	Dhoni	6	7	2.5	2.84	0.85
16	7	98	Boduhithi	1500	1540	40	Yard				3	Dhoni	6	8	3.5	4.54	1.36
16	7	98	Enbudhu finolhu	1115	1130	15	Yard				2	Dhoni	6	9	3	4.37	1.31
16	7	98	Fullmoon	1130	1150	20	Food				6	Boat	6	7	2	2.27	0.68
16	7	98	Nakachafushi	1140	1215	35	Yard	etc			5	Dhoni	7	12	3.5	7.94	2.38
16	7	98	Hulhule	1145	1215	30	Yard	Wood			2	Dhoni	6	7	3.5	3.97	1.19
16	7	98	Hulhule	1215	1300	45	Yard	etc			3	Dhoni	6	7	3	3.40	1.02
			Average/Total			41										52.27	15.68
17	7	98	Kurumba	630	645	15	Food				4	Dhoni	6	7	2	2.27	0.68
17	7	98	Fullmoon	620	640	20	Food				3	Boat	6	8	2	2.59	0.78
17	7	98	Vabbinfaru	915	1030	75	Yard				3	Dhoni	6	10	2.5	4.05	1.22
17	7	98	Hulhule	1415	1520	65	Yard				7	Boat	7	8	4	6.05	1.81
17	7	98	Thulhaagiri	1525	1640	75	Yard				4	Dhoni	6	10	2.5	4.05	1.22
			Averag/Total			50										19.01	5.70

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 4)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
18	7	98	Fullmoon	630	645	15	Food				4	Boat	5	6	2	1.62	0.49
18	7	98	Kurumba	700	720	20	Food				3	Dhoni	5	7	1.5	1.42	0.43
18	7	98	Nakachafushi	1045	1115	30	Yard				4	Dhoni	6	8	2.5	3.24	0.97
18	7	98	Vabbinfaru	1050	1125	35	Yard				3	Dhoni	6	10	3	4.86	1.46
18	7	98	Hulhule	1115	1220	65	Yard	etc			7	Boat	8	10	4	8.64	2.59
18	7	98	Kudahuraa	1245	1330	45	Yard				3	Dhoni	7	12	3	6.80	2.04
18	7	98	Kurumba	1515	1605	50	Yard				6	Dhoni	12	22	3.5	24.95	7.48
18	7	98	Baross	1350	1445	55	Yard				2	Dhoni	7	15	2	5.67	1.70
			Average/Total			39										57.20	17.16
19	7	98	Kurumba	615	630	15	Food				3	Dhoni	5.5	7	2	2.08	0.62
19	7	98	Fullmoon	635	700	25	Yard				4	Boat	6	6	2.5	2.43	0.73
19	7	98	Hulhule	1115	1145	30	Food	Yard			6	Boat	7	8	4	6.05	1.81
19	7	98	Kudahuraa	1135	1200	25	Yard				3	Dhoni	6	8	2	2.59	0.78
19	7	98	Vadhoo	1250	1320	30	Yard				4	Dhoni	6	6	2	1.94	0.58
19	7	98	Vabbinfaru	1250	1320	30	Yard				2	Dhoni	7	8	2.5	3.78	1.13
19	7	98	Thulhaagiri	1300	1345	45	Yard				5	Dhoni	6	14	3.5	7.94	2.38
19	7	98	Kudahuraa	1615	1640	25	Yard				3	Dhoni	5	7	1	0.95	0.28
			Average/Total			28										27.76	8.33
20	7	98	Fullmoon	630	655	25	Food				3	Boat	5	6	2	1.62	0.49
20	7	98		630	645	15	Food				4	Dhoni	5	7	2	1.89	0.57
20	7	98	Hulhule	1100	1200	60	Food	Yard			6	Boat	7	8	6	9.07	2.72
20	7	98	Embudhu finolhu	1150	1230	40	Yard				3	Dhoni	7	12	3.5	7.94	2.38
20	7	98	Fun Island	1430	1510	40	Yard				3	Dhoni	6	8	2	2.59	0.78
20	7	98	Lagoona	1705	1745	40	Yard				8	Dhoni	7	14	3	7.94	2.38
20	7	98	Fun Island	1430	1510	40	Yard				3	Dhoni	6	8	2.5	3.24	0.97
20	7	98	Kurumba	1435	1530	55	Yard				6	Dhoni	12	25	2.5	20.25	6.08
20	7	98	Rannalhi	1455	1540	45	Yard				3	Dhoni	7	15	3.5	9.92	2.98
20	7	98	Embudhu finolhu	1455	1545	50	Yard				3	Dhoni	6	13	3.5	7.37	2.21
20	7	98	Kudahuraa	1450	1615	85	Yard				3	Dhoni	7	15	3	8.51	2.55
			Average/Total			45										80.34	24.10
21	7	98	Kurumba	630	650	20	Food				3	Dhoni	6	7	2	2.27	0.68
21	7	98	Fullmoon	645	700	15	Food				4	Boat	5	6	2	1.62	0.49
21	7	98	Hulhule	900	950	10	Food	Yard			7	Boat	7	8	6	9.07	2.72
21	7	98	Kudahuraa	1125	1200	35	Yard				3	Dhoni	7	14	3.5	9.26	2.78
21	7	98	Thulhaagiri	1140	1215	35	Yard				3	Dhoni	6	10	4	6.48	1.94
21	7	98	Ariadhoo	1200	1255	15	Yard	Tincans			5	Dhoni	8	15	5	16.20	4.86
21	7	98	Aarah	1340	1510	90	Wood				15	Dhoni	7	8	1.5	2.27	0.68
21	7	98		1630	1700	30	Yard				3	Boat	6	7	2	2.27	0.68
21	7	98	Gangehi	1500	1550	10	Yard				10	Boat	6	6	4	3.89	1.17
			Average/Total			29										53.33	16.00

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 5)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
22	7	98	Kurumba	700	715	15	Food				3	Dhoni	5	6	1.5	1.22	0.36
22	7	98	Fullmoon	720	750	30	Food				4	Boat	5	7	2	1.89	0.57
22	7	98	Vaadhoo	1050	1130	40	Yard				3	Dhoni	6	10	3	4.86	1.46
22	7	98	Kanifinolhu	930	1300	210	Yard				12	Boat	10	25	5	33.75	10.13
22	7	98	Thulhaagiri	1115	1203	48	Yard				3	Dhoni	7	14	3	7.94	2.38
22	7	98	Nakachafushi	1130	1200	30	Yard				4	Dhoni	7	15	2.5	7.09	2.13
22	7	98	Vabbinfaru	1230	1300	30	Yard				3	Dhoni	6	12	2	3.89	1.17
22	7	98	Makunudhoo	1325	1355	30	Yard				4	Dhoni	8	15	3	9.72	2.92
22	7	98	Baros	1400	1450	10	Yard					Dhoni	6	12	3	5.83	1.75
			Average/Total			49										76.18	22.85
23	7	98	Hulhule	935	1015	40	Domestic				7	Dhoni	10	5	3	4.05	1.22
23	7	98	Ihuru	1043	1130	47	Trees	Domestic			5	Dhoni	10	8	2.5	5.40	1.62
23	7	98	Paradise	1042	1110	28	Domestic				5	Dhoni	12	8	2.5	6.48	1.94
23	7	98	Banyan Tree	1252	1300	8	Domestic				3	Dhoni	4	6	2	1.30	0.39
23	7	98	Nakachafushi	1310	1347	37	Trees	Domestic			4	Dhoni	10	8	3	6.48	1.94
			Average/Total			32										23.71	7.11
25	7	98	Muun	700	715	15	Domestic				4	Dhoni	6	4	2.5	1.62	0.49
25	7	98	Bandos	715	725	10	Domestic				4	Dhoni	6	4	2	1.30	0.39
25	7	98	Kuramathi	715	807	52	Steel	Plant	Timber	Domestic	3	Barge	30	10	4	32.40	9.72
25	7	98	Hulhule	1100	1134	34	Domestic				6	Dhoni	10	6	2.5	4.05	1.22
25	7	98	Kudahuraa	1215	1312	57	Domestic				2	Dhoni	12	6	3	5.83	1.75
25	7	98	Rangali	1314	1335	21	Trees				4	Dhoni	6	8	3	3.89	1.17
25	7	98	Tailanu	1316	1417	61	Domestic				3	Dhoni	12	8	3	7.78	2.33
25	7	98	Hulhule	1418	1443	25	Domestic				7	Dhoni	10	6	3	4.86	1.46
25	7	98	Kurumba	1445	1545	60	Trees	Domestic			5	Dhoni	12	8	3	7.78	2.33
25	7	98	Hulhule	1500	1525	25	Domestic				5	Dhoni	4	4	2	0.86	0.26
25	7	98	Makunudhoo	1500	1530	30	Trees	Domestic			3	Dhoni	12	8	3	7.78	2.33
			Average/Total			35										78.14	23.44

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. :)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
26	7	98	Kurumba	700	715	15	Domestic				4	Dhoni	6	4	2	1.30	0.39
26	7	98	Fullmoon	705	725	20	Domestic				3	Dhoni	8	4	2.5	2.16	0.65
26	7	98	Kudahuraa	1014	1035	21	Trees				3	Dhoni	12	6	3	5.83	1.75
26	7	98	samaradhivarafushi	1054	1110	16	Domestic				4	Dhoni	10	6	3	4.86	1.46
26	7	98	Paradise	1100	1105	5					3	Dhoni	4	4	2	0.86	0.26
26	7	98	Hulhule	1107	1140	33	Domestic				7	Dhoni	8	6	4	5.18	1.56
26	7	98	Vabbinfaru	1250	1310	20	Trees	Domestic			2	Dhoni	10	6	2.5	4.05	1.22
26	7	98	Thari Village	1312	1320	8	Domestic				5	Dhoni	6	4	2	1.30	0.39
26	7	98	Faanody	1322	1356	34	Trees	Domestic			3	Dhoni	8	5	4	4.32	1.30
26	7	98	Kurumba	1430	1500	30	Trees	Domestic			6	Dhoni	12	10	2.5	8.10	2.43
			Average/Total			20										37.96	11.39
27	7	98	Fullmoon	600	615	15	Domestic				3	Dhoni	5	4	2	1.08	0.32
27	7	98	Kurimba	710	736	26	Domestic				4	Dhoni	8	6	2	2.59	0.78
27	7	98	Kuramathi	710	754	44	Domestic				2	Barge	40	10	4	43.20	12.96
27	7	98	Hulhule	1120	1152	32	Domestic				6	Dhoni	8	6	3	3.89	1.17
27	7	98	Kudahuraa	1204	1300	56	Trees	Domestic			5	Dhoni	10	6	3	4.86	1.46
27	7	98	Vabbinfaru	1250	1320	30	Domestic				2	Dhoni	8	6	3	3.89	1.17
27	7	98	Fun Island	1321	1345	24	Domestic				3	Dhoni	6	6	3	2.92	0.87
			Average/Total			32										62.42	18.73
28	7	98	Fullmoon	600	620	20	Domestic				4	Dhoni	6	4	2	1.30	0.39
28	7	98	Kurumba	815	825	10	Domestic				4	Dhoni	6	6	2.5	2.43	0.73
28	7	98	Faanodiy	925	950	25	Trees	Domestic			3	Dhoni	6	5	3	2.43	0.73
28	7	98	Kuramathi	1015	1122	67	Steel	Domestic			2	Barge	40	12	3	38.88	11.66
28	7	98	Hulhule	1125	1150	25	Domestic				7	Dhoni	8	6	4	5.18	1.56
28	7	98	Nakachafushi	1230	1300	30	Trees	Domestic			3	Dhoni	8	5	2	2.16	0.65
28	7	98	Kudahuraa	1325	1434	69	Trees	Domestic			2	Dhoni	8	6	3	3.89	1.17
28	7	98	Paradise	1410	1415	5	Domestic				3	Dhoni	4	4	2	0.86	0.26
28	7	98	Taaj Lagoon	1515	1525	10	Domestic				3	Dhoni	8	4	2.5	2.16	0.65
28	7	98	Sawdaady	1635	1643	8	Domestic				2	Dhoni	4	4	2	0.86	0.26
			Average/Total			27										60.16	18.05

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. :)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
29	7	98	Fullmoon	600	620	20	Domestic				3	Dhoni	6	4	2.5	1.62	0.49
29	7	98	Kurumba	650	705	15	Domestic				4	Dhoni	6	5	2	1.62	0.49
29	7	98	Kanifinolhu	1300	1400	60	Timber	Domestic			11	Barge	10	8	6	12.96	3.89
29	7	98	Hulhule	1115	1147	32	Domestic				6	Dhoni	8	6	3	3.89	1.17
29	7	98	Kudaveli	1124	1225	61	Domestic				4	Dhoni	8	5	3	3.24	0.97
29	7	98	Vabbinfaru	1250	1320	70	Domestic				2	Dhoni	6	4	2	1.30	0.39
29	7	98	Faanodiy	1325	1410	45	Trees	Domestic			2	Dhoni	8	6	4	5.18	1.56
			Average/Total			43										29.81	8.94
30	7	98	Fullmoon	600	620	20	Domestic				4	Dhoni	4	4	2	0.86	0.26
30	7	98	Kurumba	635	650	15	Domestic				3	Dhoni	6	4	2	1.30	0.39
30	7	98	Bandos	705	725	20	Domestic				5	Dhoni	6	5	2	1.62	0.49
30	7	98	Hulhule	1032	1105	33	Domestic				3	Dhoni	8	6	3	3.89	1.17
30	7	98	Vaadhoo	1035	1055	20	Domestic				6	Dhoni	6	4	2.5	1.62	0.49
30	7	98	Ihuru	1100	1135	35	Trees	Domestic			4	Dhoni	7	6	3	3.40	1.02
30	7	98	Kudahuraa	1110	1200	50	Trees	Domestic			2	Dhoni	8	5	2	2.16	0.65
30	7	98	Abeeru	1153	1157	4	Timber	Box			3	Dhoni	4	4	2	0.86	0.26
30	7	98	Thulhaagiri	1158	1255	57	Trees	Domestic			3	Dhoni	10	6	3	4.86	1.46
30	7	98	Baros	1354	1455	61	Trees	Domestic			5	Dhoni	12	8	3	7.78	2.33
30	7	98	Allaarei	1500	1555	15	Trees	Domestic			3	Dhoni	6	8	2	2.59	0.78
30	7	98	Taaj Lagoon	1600	1615	15	Trees	Domestic			3	Dhoni	8	6	3	3.89	1.17
30	7	98	Vabbinfaru	1613	1622	9	Domestic				2	Dhoni	6	4	2.5	1.62	0.49
			Average/Total			27										36.45	10.94
31	7	98	Fullmoon	600	620	20	Domestic				4	Dhoni	4	4	2.5	1.08	0.32
31	7	98	Kurumba	630	655	25	Domestic				3	Dhoni	4	4	2	0.86	0.26
31	7	98	Hulhule	1108	1135	27	Domestic				8	Dhoni	8	6	4	5.18	1.56
31	7	98	Vabbinfaru	1256	1310	14	Trees	Domestic			3	Dhoni	6	4	2	1.30	0.39
31	7	98	Fun Island	1314	1345	31	Domestic				3	Dhoni	8	6	4	5.18	1.56
31	7	98	Rangali	1332	1400	28	Trees	Domestic			5	Dhoni	6	6	3	2.92	0.87
31	7	98	Makunudhoo	1405	1455	50	Domestic				3	Dhoni	12	6	4	7.78	2.33
31	7	98	Legun	1600	1625	25	Domestic				7	Dhoni	8	6	4	5.18	1.56
31	7	98	Bahadu	1605	1630	25	Trees	Domestic			3	Dhoni	6	4	3	1.94	0.58
			Average/Total			27										31.43	9.43

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 8)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
2	8	98	Fullmoon	600	620	20	Domestic				4	Dhoni	6	4	2.5	1.62	0.49
2	8	98	Kurumba	635	650	15	Domestic				3	Dhoni	4	4	2	0.86	0.26
2	8	98	Hulhule	940	1010	30	Domestic				7	Dhoni	8	6	3	3.89	1.17
2	8	98	Hulhule	1055	1120	25	Timber				5	Dhoni	10	5	4	5.40	1.62
2	8	98	Taaj Lagoon	1225	1245	20	Concrete	Timber	Domestic		3	Dhoni	7	4	3.5	2.65	0.79
2	8	98	Vabbinfaru	1255	1320	25	Trees	Domestic			2	Dhoni	8	4	3	2.59	0.78
2	8	98	Hulhule	1315	1400	45	Timber	Domestic			4	Dhoni	10	5	4	5.40	1.62
2	8	98	Thulhaagiri	1400	1435	35	Trees	Domestic			5	Dhoni	10	5	3	4.05	1.22
2	8	98	Hulhule	1440	1515	35	Timber	Domestic			5	Dhoni	8	5	3	3.24	0.97
			Average/Total			28										29.70	8.91
3	8	98	Fullmoon	610	630	20	Domestic				3	Dhoni	6	4	2.5	1.62	0.49
3	8	98	Kurumba	720	740	20	Domestic				4	Dhoni	6	4	2	1.30	0.39
3	8	98	Hulhule	940	1015	35	Domestic				7	Dhoni	8	5	3	3.24	0.97
3	8	98	Kudaveli	1010	1045	35	Trees	Domestic			3	Dhoni	8	6	2.5	3.24	0.97
3	8	98	Vadhoo	1020	1100	40	Timber	Domestic			4	Dhoni	8	6	3	3.89	1.17
3	8	98	Hulhule	1033	1115	42	Timber				4	Dhoni	10	6	3	4.86	1.46
3	8	98	Nakachafushi	1045	1110	25	Trees	Domestic			4	Dhoni	10	6	3	4.86	1.46
3	8	98	Kurumba	1108	1145	37	Domestic				7	Dhoni	10	8	3	6.48	1.94
3	8	98	Kudahuraa	1110	1146	36	Trees	Domestic			3	Dhoni	8	6	3	3.89	1.17
3	8	98	Hulhule	1220	1245	25	Timber	Domestic			4	Dhoni	8	4	3	2.59	0.78
3	8	98	Vabbinfaru	1255	1310	15	Trees	Domestic			2	Dhoni	7	5	3	2.84	0.85
3	8	98	Fun Island	1310	1335	25	Domestic				4	Dhoni	7	6	3	3.40	1.02
3	8	98	Bandos	1330	1507	97	Trees	Domestic			4	Dhoni	10	6	4	6.48	1.94
3	8	98	Hulhule	1450	1545	55	Timber				4	Dhoni	10	5	3	4.05	1.22
3	8	98	Kudahuraa	1657	1727	30	Trees	Domestic			3	Dhoni	8	5	3	3.24	0.97
			Average/Total			36										55.97	16.79

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 9)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
4	8	98	Fullmoon	600	615	15	Domestic				3	Dhoni	4	4	2	0.86	0.26
4	8	98	Kurumba	715	730	15	Domestic				4	Dhoni	6	4	2	1.30	0.39
4	8	98	Bandos	825	920	55	Trees	Domestic			7	Dhoni	10	6	3.5	5.67	1.70
4	8	98	Hulhule	935	955	20	Domestic				7	Dhoni	10	5	3	4.05	1.22
4	8	98	Hulhule	954	1030	36	Timber				3	Dhoni	8	5	3	3.24	0.97
4	8	98	Vaadhoo	1045	1117	32	Trees	Domestic			3	Dhoni	8	5	3	3.24	0.97
4	8	98	Paanode	1043	1115	32	Trees	Domestic			3	Dhoni	8	4	3	2.59	0.78
4	8	98	Nakachafushi	1052	1130	38	Domestic				4	Dhoni	10	6	2	3.24	0.97
4	8	98	Kudahuraa	1135	1215	40	Trees	Domestic			2	Dhoni	7	5	2.5	2.36	0.71
4	8	98	Hulhule	1213	1248	35	Domestic				4	Dhoni	10	5	3	4.05	1.22
4	8	98	Vabbinfaru	1255	1310	15	Domestic				2	Dhoni	6	4	3	1.94	0.58
4	8	98	Hulhule	1300	1345	5	Timber				3	Dhoni	10	5	3	4.05	1.22
4	8	98	Fihaalhohi	1520	1600	40	Steel	Timber			3	Dhoni	6	5	3	2.43	0.73
			Average/Total			29										39.03	11.71
5	8	98	Fullmoon	640	700	20	Domestic				3	Dhoni	4	4	2	0.86	0.26
5	8	98	Kurumba	700	715	15	Domestic				3	Dhoni	4	3	2.5	0.81	0.24
5	8	98	Hulhule	908	930	22	Timber				4	Dhoni	8	4	3	2.59	0.78
5	8	98	Hulhule	943	1020	37	Timber				3	Dhoni	8	5	3	3.24	0.97
5	8	98	Hulhule	1000	1040	40	Domestic				7	Dhoni	8	6	4	5.18	1.56
5	8	98	Kurumba	1045	1125	40	Trees	Domestic			5	Dhoni	10	8	2	4.32	1.30
5	8	98	Kudahuraa	1135	1200	25	Domestic				4	Dhoni	8	6	3.5	4.54	1.36
5	8	98	Hulhule	1150	1250	60	Timber				4	Dhoni	8	4	3	2.59	0.78
5	8	98	Vabbinfaru	1250	1305	15	Domestic				2	Dhoni	6	4	2	1.30	0.39
5	8	98	Vaadhoo	1320	1345	25	Trees	Domestic			3	Dhoni	10	6	3	4.86	1.46
5	8	98	Baros	1315	1420	65	Trees	Domestic			4	Dhoni	10	6	4	6.48	1.94
5	8	98	Hulhule	1515	1600	45	Domestic	Timber			6	Dhoni	8	6	4	5.18	1.56
			Average/Total			34										41.96	12.59

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 10)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
6	8	98	Fullmoon	640	655	15	Domestic				3	Dhoni	4	4	2	0.86	0.26
6	8	98	Kurumba	700	715	15	Domestic				4	Dhoni	5	4	2	1.08	0.32
6	8	98	Bandos	825	920	55	Trees	Domestic			5	Dhoni	10	6	4	6.48	1.94
6	8	98	Bandos	900	955	55	Trees	Domestic			5	Dhoni	8	6	3	3.89	1.17
6	8	98	Hulhule	953	1030	37	Domestic				7	Dhoni	8	6	3	3.89	1.17
6	8	98	Hulhule	955	1032	37	Timber				3	Dhoni	8	5	3	3.24	0.97
6	8	98	Ihuru	1045	1115	30	Trees	Domestic			5	Dhoni	10	8	2	4.32	1.30
6	8	98	Kudahuraa	1140	1213	33	Domestic				3	Dhoni	8	5	3	3.24	0.97
6	8	98	Hulhule	1215	1244	29	Timber				4	Dhoni	8	5	3	3.24	0.97
6	8	98	Vabbinfaru	1248	1310	22	Domestic				2	Dhoni	6	5	2.5	2.03	0.61
6	8	98	Kurumba	1418	1444	26	Timber	Domestic			6	Dhoni	10	8	3	6.48	1.94
6	8	98	Hulhule	1445	1530	45	Timber	Domestic			4	Dhoni	10	6	4	6.48	1.94
6	8	98	Hulhule	1522	1600	38	Timber				4	Dhoni	10	5	3	4.05	1.22
			Average/Total			34										49.25	14.78
8	8	98	Fullmoon	635	650	15	Domestic				3	Dhoni	4	4	2.5	1.08	0.32
8	8	98	Kurumba	722	730	8	Domestic				4	Dhoni	4	5	2	1.08	0.32
8	8	98	Hulhule	915	940	25	Timber				5	Dhoni	8	5	3	3.24	0.97
8	8	98	Hulhule	950	1015	65	Timber				4	Dhoni	8	5	3	3.24	0.97
8	8	98	Nakachafushi	1020	1035	15	Domestic				4	Dhoni	10	6	3	4.86	1.46
8	8	98	Paradise	1037	1110	33	Domestic				3	Dhoni	10	6	3	4.86	1.46
8	8	98	Kudahuraa	1045	1125	40	Trees	Domestic			4	Dhoni	8	6	3	3.89	1.17
8	8	98	Hulhule	1115	1135	20	Domestic				7	Dhoni	8	6	3	3.89	1.17
8	8	98	Faanody	1130	1145	15	Domestic				4	Dhoni	8	6	3	3.89	1.17
8	8	98	Hulhule	1135	1155	20	Timber				5	Dhoni	8	5	2.5	2.70	0.81
8	8	98	Hulhule	1235	1310	35	Timber	Domestic			4	Dhoni	10	6	3	4.86	1.46
8	8	98	Vabbinfaru	1255	1310	15	Domestic				3	Dhoni	6	4	2.5	1.62	0.49
			Average/Total			26										39.20	11.76
9	8	98	Kurumba	710	725	15	Domestic				4	Dhoni	4	4	2	0.86	0.26
9	8	98	Fullmoon	726	735	9	Domestic				5	Dhoni	5	4	2	1.08	0.32
9	8	98	Hulhule	945	1005	20	Timber				3	Dhoni	8	5	3	3.24	0.97
9	8	98	Hulhule	1005	1030	25	Domestic				8	Dhoni	8	6	4	5.18	1.56
9	8	98	Vaadu	1027	1050	23	Trees	Domestic			3	Dhoni	7	5	2.5	2.36	0.71
9	8	98	Hulhule	1047	1120	33	Timber				4	Dhoni	8	5	2.5	2.70	0.81
9	8	98	Vabbinfaru	1110	1125	15	Domestic				2	Dhoni	6	4	2	1.30	0.39
9	8	98	Kudahuraa	1126	1155	29	Domestic				3	Dhoni	8	6	2.5	3.24	0.97
9	8	98	Kuramathi	1330	1450	120	Timber	Steel	Domestic		3	Barge	35	10	4	37.80	11.34
9	8	98	Aarah	1700	1730	30	Domestic				12	Dhoni	8	6	2	2.59	0.78
			Average/Total			32										60.36	18.11

Result of Survey on Direct Hauling Waste to Thilafushi

Survey Period: 07/July/1998 - 10/August/98

(Sheet No. : 11)

Date			Name of Island	Arrival time	Depart. time	Unloading Time (min.)	Type of Waste				Nos. of crew (men)	Type of Vessel	Estimated Size of Waste Heap (W x L x H ft)			Estimated waste volume (m3)	Estimated waste weight (ton)
10	8	98	Kurumba	720	735	15	Domestic				4	Dhoni	6	5	2	1.62	0.49
10	8	98	Fullmoon	1007	1018	11	Domestic				5	Dhoni	4	4	2	0.864	0.26
10	8	98	Hulhule	1020	1045	25	Domestic				7	Dhoni	8	6	4	5.184	1.56
10	8	98	Kani finolhu	1022	1245	143	Trees	Timber	Domestic		10	Barge	16	10	4	17.28	5.18
10	8	98	Vaadhu	1040	1115	35	Trees	Timber	Domestic		3	Dhoni	8	5	3	3.24	0.97
10	8	98	Fun Island	1240	1335	55	Domestic				3	Dhoni	7	4	2.5	1.89	0.57
10	8	98	Vabbinfaru	1250	1320	30	Domestic				3	Dhoni	8	4	2	1.728	0.52
10	8	98	Hulhule	1444	1510	26	Timber	Domestic			6	Dhoni	8	6	2.5	3.24	0.97
10	8	98	Paradise	1610	1625	15	Domestic				2	Dhoni	6	4	2	1.296	0.39
			Average/Total			39										36.342	10.90
11	8	98	Fullmoon	645	705	20	Domestic				4	Dhoni	6	5	2.5	2.025	0.61
11	8	98	Kurumba	655	715	20	Domestic				4	Dhoni	4	4	2	0.864	0.26
11	8	98	Bandos	840	905	25	Trees	Domestic			4	Dhoni	10	6	2	3.24	0.97
11	8	98	Boduhithi	907	955	48	Trees	Domestic			2	Dhoni	10	6	3	4.86	1.46
11	8	98	Aarah	940	1005	25	Domestic				10	Dhoni	6	6	3	2.916	0.87
11	8	98	Vaadhu	1105	1130	25	Domestic				3	Dhoni	8	6	2.5	3.24	0.97
11	8	98	Hulhule	1125	1205	40	Domestic				7	Dhoni	8	6	4	5.184	1.56
11	8	98	Kudahuraa	1130	1208	38	Trees	Domestic			4	Dhoni	6	5	3	2.43	0.73
11	8	98	Nakachafushi	1200	1230	30	Domestic				4	Dhoni	10	6	3	4.86	1.46
11	8	98	Vabbinfaru	1255	1310	15	Trees	Domestic			3	Dhoni	6	4	2	1.296	0.39
11	8	98	Bahadu	1330	1350	20	Domestic				3	Dhoni	8	6	3	3.888	1.17
11	8	98	Thulhaagiri	1344	1435	51	Domestic				3	Dhoni	10	5	4	5.4	1.62
11	8	98	Embudhu	1455	1525	30	Trees	Domestic			3	Dhoni	10	6	4	6.48	1.94
			Average/Toal			30										46.683	14.00

3.5 Solid Waste Composition Survey in Male'

3.5.1 Purpose and Survey Items

The data of solid waste composition along with the amount of waste generation is a basic for planning and design of SWM system. The survey is intended to obtain the current waste composition data by the waste generation sources. In order to obtain the data as intended, the survey was carried out to take the following data from the waste generated in Male' Municipality.

- Amount of waste by 18 types from different waste generation sources
- Total waste volume and bulk density
- Amount of organic, inorganic and hazardous wastes
- Amount and types of reusable and recyclable wastes

3.5.2 Survey Period

The solid waste composition survey in Male' was conducted from 20 August to 6 September, 1998 for 36 samples. Due to the period of school holidays, the data for school waste was surveyed on 20 September for 3 samples.

3.5.3 Procedures of Survey

Objet Waste Generation Sources and Numbers of Samples

The survey team consist of one leader and four workers took 39 samples as shown in the following table in consideration of data to be obtained from the Waste Amount Survey.

Code	Generation Source Category	Total Nos. of Samples	Remarks
A-1	Residential Area 1	9	Residential house
A-2	Residential Area 2	6	Micro Bins
B-1	Commercial Area (General)	7	
C-1	Buildings (Government Office)	2	
C-2	Building (Private Office & Shops)	3	
D	Fruits Market & Parks	3	
E	Restaurant & Hotels	3	
G	School	3	
I-3	Construction Waste (Mixed)	3	
	Total	39	

Method of Sampling

Samples for waste composition survey were taken from the following collection vehicles respectively. Wastes amount was measured by truck scale at first to take more than 500 kgs. for the original samples. Then the sample for testing was reduced to take approximately 100 kgs by dividing the original samples equally to 4 heaps and one waste heap was taken for the composition survey.

From the municipality collection vehicle used for disposal of the survey
Category A-1, B-1, C-1, C-2, E & G

Micro Bin collection vehicle
Category A-2

From municipality tractors carried waste into the Transfer station
Category D

From Private vehicle carried waste into the Transfer Station
Category I-3

Categorisation of Waste and Weighing Samples

The sample was separated into 18 categories to be indicated in the following sections and put into plastic containers or sacks depending on the size, amount and the nature of the wastes. The separated waste was weighed the wet-base weight by 5 kg dial scale or 30 kg spring scale depending on the weight.

3.5.4 Survey Data

(1) Residential Area 1 (Residential Houses)

Result of Waste Composition Survey in Male'

Residential Area

(unit : grams)

Sample No.		1	2	3	4	5	6	7	8	9	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date, 1998		22 Aug.	22 Aug.	22 Aug.	23 Aug.	23 Aug.	23 Aug.	25 Aug.	25 Aug.	25 Aug.					
Organic Waste															
Food Waste		3,190	13210	13150	7150	8150	11150	7650	5650	10150	15,210	9,050	3,190	81,450	10.96
Paper	Paper	6,330	2650	9270	11130	9150	9030	2930	2270	1750	11,130	6,062	1,750	54,560	7.34
	Cardboard	2,660	1000	2760	3330	4120	3750	2840	2500	11300	11,300	3,913	1,000	35,260	4.74
	Subtotal	8,990	3650	12030	14460	13270	12830	5770	4770	13050	14,460	9,980	3,650	89,820	12.09
Plastics	Film	1,450	1830	2010	3350	3500	2650	1330	1130	4740	4,740	2,443	1,130	21,990	2.96
	Bottle & Others	1,630	5300	4150	1170	2400	20130	2850	2450	1530	20,130	4,623	1,170	41,610	5.60
	PET	530	450	650	30	1300	1150	390	620	200	1,300	591	30	5,320	0.72
	Subtotal	3,610	7580	6810	4550	7200	23930	4570	4200	6470	23,930	7,658	3,630	68,920	9.27
Rubber & Leather		320	180	460	2490	1200	1850	840	580	400	2,490	924	180	8,320	1.12
Textiles		3,530	1700	130	2350	9400	4680	1950	540	2020	9,400	2,811	130	25,300	3.40
Yard Waste		8,200	8980	3010	3500	10150	7650	38850	29400	3150	38,850	12,543	3,010	112,890	15.19
Wood		0	1950	13660	2210	2900	4850	5300	6900	22800	22,800	5,363	0	48,270	6.50
Other Org. Waste		2,190	7900	3290	4270	13500	19650	1080	5080	9680	19,650	7,404	1,080	66,640	8.97
Organic Waste Total		30,030	47150	40240	40980	64770	86590	66010	58120	67720	86,590	55,734	30,030	501,610	67.50
In-organic Waste															
Glass	Broken Glass	200	0	210	650	300	300	0	980	180	980	322	0	2,900	0.39
	Bottle	1,430	860	2610	3270	2100	2650	2470	1690	1330	3,270	2,046	860	18,410	2.48
	Subtotal	1,630	860	2820	3920	2490	2950	2470	2670	1510	3,920	2,368	860	21,310	2.87
Tin Cans (Steel Cans)		1,870	3070	2230	1900	5440	5320	1250	2280	5130	5,440	3,166	1,250	28,490	3.83
Aluminum cans		140	310	710	550	550	800	250	100	80	800	388	80	3,490	0.47
Other Metals		1,790	140	760	0	1760	3740	2450	5220	2900	5,220	2,084	0	18,760	2.52
Dirt, Ash, Sand		9,310	25770	15550	19720	13520	350	32600	38400	14150	38,400	18,708	350	168,370	22.66
In-organic Waste Total		14,740	30150	22070	25990	23750	13160	39020	48670	23770	48,670	26,713	13,160	240,420	32.35
Hazardous Waste															
Hazardous Waste (Batteries)		100	20	0	0	200	130	0	160	0	200	68	0	610	0.08
Other Hazardous Waste		0	120	0	0	120	80	0	140	0	140	51	0	460	0.06
Hazardous Waste Total		100	140	0	0	320	210	0	300	3250	3,250	480	0	1,070	0.14
Total Weight (kg)		44,870	77440	62310	66070	88340	99960	105030	107090	94740	107,090	82,928	44,870	743,100	100.00
Total Waste Volume (lit.)		240	365	320	400	400	440	350	330	320	440	352	240	3,165	
Bulk Density (kg/lit.)		0.187	0.212	0.195	0.165	0.222	0.227	0.300	0.325	0.296	0.325	0.237	0.165	0.235	

Record Sheets (Male Municipality) (Sheet No. 1 / 39)

Survey Date :22 August, 1998
Generation Source : (A)
Weather :Cloudy
Name of Surv : Mr. Ibrahim

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1,350	4,540									3,190	7.11
Paper	Paper	1,350	3,700	1,350	3,240	1,350	3,440					6,330	14.11
	Cardboard	2,420	3,380	1,350	3,050							2,660	5.93
	Subtotal	3,770	7,080	2,700	6,290	1,350	3,440	0	0	0	0	8,990	20.04
Plastics	Film	2,500	3,950									1,450	3.23
	Bottle & Others	1,350	2,980									1,630	3.63
	PET	1,350	1,880									530	1.18
	Subtotal	5,200	8,810	0	0	0	0	0	0	0	0	3,610	8.05
Rubber & Leather		0	320									320	0.71
Textiles		1,350	4,880									3,530	7.87
Yard Waste		1,980	4,920	1,350	2,630	0	3,980					8,200	18.28
Wood		0	0									0	0.00
Other Org. Waste		1,350	3,540									2,190	4.88
Organic Waste Total		15,000	34,090	4,050	8,920	1,350	7,420	0	0	0	0	30,030	66.93
In-organic Waste													
Glass	Broken Glass	0	200									200	0.45
	Bottle	1,350	2,780									1,430	3.19
	Subtotal	1,350	2,980	0	0	0	0	0	0	0	0	1,630	3.63
Tin Cans (Steel Cans)		1,350	3,220									1,870	4.17
Aluminum cans		0	140									140	0.31
Other Metals		1,350	3,100	0	40							1,790	3.99
Dirt, Ash, Sand		1,350	4,720	1,350	4,250	1,350	4,390					9,310	20.75
In-orrganic Waste Total		5,400	14,160	1,350	4,290	1,350	4,390	0	0	0	0	14,740	32.85
Hazardous Waste													
Hazardous Waste (Batteries)		0	100									100	0.22
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	100	0	0	0	0	0	0	0	0	100	0.22
Total Weight (kg) :		20,400	48,350	5,400	13,210	2,700	11,810	0	0	0	0	44,870	100.00
Total Waste Volume (lit.) :													240
Bulk Density (kg/lit.) :													0.187

Record Sheets (Male Municipality) (Sheet No. 2 / 39)

Survey Date :22 August, 1998
Generation Source : (A)
Weather :Cloudy
Name of Surv : Mr. Ibrahim

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	11.000	1.940	7.500							15.210	19.64
Paper	Paper	1.350	4.000									2.650	3.42
	Cardboard	2.500	3.500									1.000	1.29
	Subtotal	3.850	7.500	0	0	0	0	0	0	0	0	3.650	4.71
Plastics	Film	1.350	3.180									1.830	2.36
	Bottle & Others	1.350	3.350	1.350	4.650							5.300	6.84
	PET	1.350	1.800									450	0.58
	Subtotal	4.050	8.330	1.350	4.650	0	0	0	0	0	0	7.580	9.79
Rubber & Leather		0	180									180	0.23
Textiles		1.350	3.050									1.700	2.20
Yard Waste		1.350	5.750	0	2.940	0	1.640					8.980	11.60
Wood		0	1.950									1.950	2.52
Other Org. Waste		1.350	9.250									7.900	10.20
Organic Waste Total		13.300	47.010	3.290	15.090	0	1.640	0	0	0	0	47.150	60.89
In-organic Waste													
Glass	Broken Glass	0	0									0	0.00
	Bottle	0	860									860	1.11
	Subtotal	0	860	0	0	0	0	0	0	0	0	860	1.11
Tin Cans (Steel Cans)		1.980	5.050									3.070	3.96
Aluminum cans		1.350	1.660									310	0.40
Other Metals		0	140									140	0.18
Dirt, Ash, Sand		2.420	22.250	1.350	4.250	1.350	4.390					25.770	33.28
In-orrganic Waste Total		5.750	29.960	1.350	4.250	1.350	4.390	0	0	0	0	30.150	38.93
Hazardous Waste													
Hazardous Waste (Batteries)		0	20									20	0.03
Other Hazardous Waste		0	120									120	0.15
Hazardous Waste Total		0	140	0	0	0	0	0	0	0	0	140	0.18
Total Weight (kg) :		19.050	77.110	4.640	19.340	1.350	6.030	0	0	0	0	77.440	100.00
Total Waste Volume (lit.) :													365
Bulk Density (kg/lit.) :													0.212

Record Sheets (Male Municipality) (Sheet No. 3 / 39)

Survey Date :22 August, 1998	Code	Generation Sources	Code	Generation Sources	Code	Generation Source	
Generation Source : (A)	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)	
Weather :Cloudy	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School	
Name of Surv : Mr. Ibrahim	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)	

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	14.500									13.150	21.10
Paper	Paper	2.500	6.750	1.980	7.000							9.270	14.88
	Cardboard	0	2.760									2.760	4.43
	Subtotal	2.500	9.510	1.980	7.000	0	0	0	0	0	0	12.030	19.31
Plastics	Film	1.350	3.360									2.010	3.23
	Bottle & Others	1.350	2.200	1.350	4.650							4.150	6.66
	PET	1.350	2.000									650	1.04
	Subtotal	4.050	7.560	1.350	4.650	0	0	0	0	0	0	6.810	10.93
Rubber & Leather		0	460									460	0.74
Textiles		0	130									130	0.21
Yard Waste		1.350	4.360									3.010	4.83
Wood		0	1.360									1.360	2.18
Other Org. Waste		1.350	4.640									3.290	5.28
Organic Waste Total		10.600	42.520	3.330	11.650	0	0	0	0	0	0	40.240	64.58
In-organic Waste													
Glass	Broken Glass	0	210									210	0.34
	Bottle	1.350	3.960									2.610	4.19
	Subtotal	1.350	4.170	0	0	0	0	0	0	0	0	2.820	4.53
Tin Cans (Steel Cans)		1.950	4.180									2.230	3.58
Aluminum cans		1.350	2.060									710	1.14
Other Metals		0	760									760	1.22
Dirt, Ash, Sand		1.350	9.250	1.350	9.000							15.550	24.96
In-orrganic Waste Total		6.000	20.420	1.350	9.000	0	0	0	0	0	0	22.070	35.42
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		16.600	62.940	4.680	20.650	0	0	0	0	0	0	62.310	100.00
Total Waste Volume (lit.) :													320
Bulk Density (kg/lit.) :													0.195

Record Sheets (Male Municipality) (Sheet No. 4 / 39)

Survey Date :23 August, 1998	Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Generation Source : (A)	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Weather :Cloudy	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Name of Surv : Mr. Ibrahim	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	8.500									7.150	10.82
Paper	Paper	2.420	5.750	1.350	5.000	1.350	5.500					11.130	16.85
	Cardboard	2.420	5.750									3.330	5.04
	Subtotal	4.840	11.500	1.350	5.000	1.350	5.500	0	0	0	0	14.460	21.89
Plastics	Film	1.350	4.700									3.350	5.07
	Bottle & Others	1.350	2.520									1.170	1.77
	PET	1.350	1.380									30	0.05
	Subtotal	4.050	8.600	0	0	0	0	0	0	0	0	4.550	6.89
Rubber & Leather		1.350	3.840									2.490	3.77
Textiles		1.350	3.700									2.350	3.56
Yard Waste		2.500	6.000									3.500	5.30
Wood		1.350	3.560									2.210	3.34
Other Org. Waste		1.980	6.250									4.270	6.46
Organic Waste Total		18.770	51.950	1.350	5.000	1.350	5.500	0	0	0	0	40.980	62.03
In-organic Waste													
Glass	Broken Glass	1.350	2.000									650	0.98
	Bottle	1.350	4.620									3.270	4.95
	Subtotal	2.700	6.620	0	0	0	0	0	0	0	0	3.920	5.93
Tin Cans (Steel Cans)		1.350	3.250									1.900	2.88
Aluminum cans		1.350	1.900									550	0.83
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		1.980	5.000	50	15.750							18.720	28.33
In-orrganic Waste Total		7.380	16.770	50	15.750	0	0	0	0	0	0	25.090	37.97
Hazardous Waste													
Hazardous Waste (Batterics)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		26.150	68.720	1.400	20.750	1.350	5.500	0	0	0	0	66.070	100.00
Total Waste Volume (lit.) :													400
Bulk Density (kg/lit.) :													0.165

Record Sheets (Male Municipality) (Sheet No. 5 / 39)

Survey Date :23 August, 1998
Generation Source : (A)
Weather :Cloudy
Name of Surv : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	9.500									8,150	9.17
Paper	Paper	1.350	6.000	0	4.500							9,150	10.30
	Cardboard	0	4.120									4,120	4.64
	Subtotal	1.350	10.120	0	4.500	0	0	0	0	0	0	13.270	14.94
Plastics	Film	0	3.500									3,500	3.94
	Bottle & Others	0	2.400									2,400	2.70
	PET	1.350	2.650									1,300	1.46
	Subtotal	1.350	8.550	0	0	0	0	0	0	0	0	7,200	8.10
Rubber & Leather		1.350	2.550									1,200	1.35
Textiles		1.350	9.750									8,400	9.46
Yard Waste		1.350	11.500									10,150	11.43
Wood		0	2.900									2,900	3.26
Other Org. Waste		2.500	16.000									13,500	15.20
Organic Waste Total		10.600	70.870	0	4.500	0	0	0	0	0	0	64.770	72.91
In-organic Waste													
Glass	Broken Glass	0	380									380	0.43
	Bottle	0	2.100									2,100	2.36
	Subtotal	0	2.480	0	0	0	0	0	0	0	0	2.480	2.79
Tin Cans (Steel Cans)		0	2.140	0	3.300							5,440	6.12
Aluminum cans		1.350	1.900									550	0.62
Other Metals		0	1.760									1,760	1.98
Dirt, Ash, Sand		1.980	15.500									13,520	15.22
In-orrganic Waste Total		3.330	23.780	0	3.300	0	0	0	0	0	0	23.750	26.73
Hazardous Waste													
Hazardous Waste (Batteries)		0	200									200	0.23
Other Hazardous Waste		0	120									120	0.14
Hazardous Waste Total		0	320	0	0	0	0	0	0	0	0	320	0.36
Total Weight (kg) :		13.930	94.970	0	7.800	0	0	0	0	0	0	88,840	100.00
Total Waste Volume (lit.) :													400
Bulk Density (kg/lit.) :													0.222

Record Sheets (Male Municipality) (Sheet No. 6 / 39)

Survey Date :23 August, 1998
Generation Source : (A)
Weather :Cloudy /Shower
Name of Surv : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1,350	12,500									11,150	11.15
Paper	Paper	0	3,250	2,420	8,250							9,080	9.08
	Cardboard	0	3,750									3,750	3.75
	Subtotal	0	7,000	2,420	8,250	0	0	0	0	0	0	12,830	12.84
Plastics	Film	1,350	4,000									2,650	2.65
	Bottle & Others	2,320	7,500	50	15,000							20,130	20.14
	PET	1,350	2,500									1,150	1.15
	Subtotal	5,020	14,000	50	15,000	0	0	0	0	0	0	23,930	23.94
Rubber & Leather		1,350	3,200									1,850	1.85
Textiles		2,320	7,000									4,680	4.68
Yard Waste		1,350	9,000									7,650	7.65
Wood		0	4,850									4,850	4.85
Other Org. Waste		1,350	21,000									19,650	19.66
Organic Waste Total		12,740	78,550	2,470	23,250	0	0	0	0	0	0	86,590	86.62
In-organic Waste													
Glass	Broken Glass	0	300									300	0.30
	Bottle	1,350	4,000									2,650	2.65
	Subtotal	1,350	4,300	0	0	0	0	0	0	0	0	2,950	2.95
Tin Cans (Steel Cans)		1,980	5,750	0	1,550							5,320	5.32
Aluminum cans		1,350	2,150									800	0.80
Other Metals		0	3,740									3,740	3.74
Dirt, Ash, Sand		1,350	1,700									350	0.35
In-orrganic Waste Total		6,030	17,640	0	1,550	0	0	0	0	0	0	13,160	13.17
Hazardous Waste													
Hazardous Waste (Batteries)		0	130									130	0.13
Other Hazardous Waste		0	80									80	0.08
Hazardous Waste Total		0	210	0	0	0	0	0	0	0	0	210	0.21
Total Weight (kg) :		18,770	96,400	2,470	24,800	0	0	0	0	0	0	99,960	100.00
Total Waste Volume (lit.) :													440
Bulk Density (kg/lit.) :													0.227

Record Sheets (Male Municipality) (Sheet No. 7 / 39)

Survey Date :25 August, 1998
Generation Source : (A)
Weather :Fine
Name of Surv : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	9.000									7.650	7.28
Paper	Paper	2.320	5.250									2.930	2.79
	Cardboard	1.940	4.780									2.840	2.70
	Subtotal	4.260	10.030	0	0	0	0	0	0	0	0	5.770	5.49
Plastics	Film	1.350	2.680									1.330	1.27
	Bottle & Others	1.350	4.200									2.850	2.71
	PET	1.350	1.740									390	0.37
	Subtotal	4.050	8.620	0	0	0	0	0	0	0	0	4.570	4.35
Rubber & Leather		0	840									840	0.80
Textiles		1.350	3.300									1.950	1.86
Yard Waste		2.500	13.000	50	14.500	50	9.000	50	5.000			38.850	36.99
Wood		0	5.300									5.300	5.05
Other Org. Waste		1.980	3.060									1.080	1.03
Organic Waste Total		15.490	53.150	50	14.500	50	9.000	50	5.000	0	0	66.010	62.85
In-organic Waste													
Glass	Broken Glass	0	0									0	0.00
	Bottle	1.350	3.820									2.470	2.35
	Subtotal	1.350	3.820	0	0	0	0	0	0	0	0	2.470	2.35
Tin Cans (Steel Cans)		1.350	2.600									1.250	1.19
Aluminum cans		1.350	1.600									250	0.24
Other Metals		0	2.450									2.450	2.33
Dirt, Ash, Sand		1.350	17.000	50	17.000							32.600	31.04
In-orrganic Waste Total		5.400	27.470	50	17.000	0	0	0	0	0	0	39.020	37.15
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		20.890	80.620	100	31.500	50	9.000	50	5.000	0	0	105.030	100.00
Total Waste Volume (lit.) :													350
Bulk Density (kg/lit.) :													0.300

Record Sheets (Male Municipality) (Sheet No. 8 / 39)

Survey Date :25 August, 1998
Generation Source : (A)
Weather :Fine
Name of Surv : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	7.000									5.650	5.28
Paper	Paper	1.350	2.600	1.980	3.000							2.270	2.12
	Cardboard	1.350	4.850									3.500	3.27
	Subtotal	2.700	7.450	1.980	3.000	0	0	0	0	0	0	5.770	5.39
Plastics	Film	1.350	2.480									1.130	1.06
	Bottle & Others	1.350	3.800									2.450	2.29
	PET	1.350	1.970									620	0.58
	Subtotal	4.050	8.250	0	0	0	0	0	0	0	0	4.200	3.92
Rubber & Leather		0	580									580	0.54
Textiles		0	540									540	0.50
Yard Waste		1.980	4.980	50	17.500	50	9.000					29.400	27.45
Wood		0	5.000	0	1.900							6.900	6.44
Other Org. Waste		2.420	7.500									5.080	4.74
Organic Waste Total		12.500	41.300	2.030	22.400	50	9.000	0	0	0	0	58.120	54.27
In-organic Waste													
Glass	Broken Glass	0	980									980	0.92
	Bottle	1.350	3.040									1.690	1.58
	Subtotal	1.350	4.020	0	0	0	0	0	0	0	0	2.670	2.49
Tin Cans (Steel Cans)		2.320	4.600									2.280	2.13
Aluminum cans		0	100									100	0.09
Other Metals		0	2.900	0	2.320							5.220	4.87
Dirt, Ash, Sand		50	21.500	50	17.000							38.400	35.86
In-orrganic Waste Total		3.720	33.120	50	19.320	0	0	0	0	0	0	48.670	45.45
Hazardous Waste													
Hazardous Waste (Batteries)		0	160									160	0.15
Other Hazardous Waste		0	140									140	0.13
Hazardous Waste Total		0	300	0	0	0	0	0	0	0	0	300	0.28
Total Weight (kg) :		16.220	74.720	2.080	41.720	50	9.000	0	0	0	0	107.090	100.00
Total Waste Volume (lit.) :													330
Bulk Density (kg/lit.) :													0.325

Record Sheets (Male Municipality) (Sheet No. 9 / 39)

Survey Date :25 August, 1998
Generation Source : (A)
Weather :Fine
Name of Surv : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Offices & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste			Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste														
	Food Waste		1.350	11.500									10.150	11.09
	Paper	Paper	1.350	3.100									1.750	1.91
		Cardboard	2.420	7.000	1.980	5.000	0	3.700					11.300	12.35
		Subtotal	3.770	10.100	1.980	5.000	0	3.700	0	0	0	0	13.050	14.26
	Plastics	Film	1.980	4.200	1.350	2.320	1.350	2.900					4.740	5.18
		Bottle & Others	1.350	2.880									1.530	1.67
		PET	0	200									200	0.22
		Subtotal	3.330	7.280	1.350	2.320	1.350	2.900	0	0	0	0	6.470	7.07
	Rubber & Leather		0	400									400	0.44
	Textiles		2.500	4.520									2.020	2.21
	Yard Waste		1.350	4.500									3.150	3.44
	Wood		0	22.800									22.800	24.92
	Other Org. Waste		2.320	12.000									9.680	10.58
Organic Waste Total			14.620	73.100	3.330	7.320	1.350	6.600	0	0	0	0	67.720	74.02
In-organic Waste														
	Glass	Broken Glass	0	180									180	0.20
		Bottle	1.350	2.680									1.330	1.45
		Subtotal	1.350	2.860	0	0	0	0	0	0	0	0	1.510	1.65
	Tin Cans (Steel Cans)		1.350	4.100	0	2.380							5.130	5.61
	Aluminum cans		0	80									80	0.09
	Other Metals		0	2.900									2.900	3.17
	Dirt, Ash, Sand		1.350	15.500									14.150	15.47
In-orrganic Waste Total			4.050	25.440	0	2.380	0	0	0	0	0	0	23.770	25.98
Hazardous Waste														
	Hazardous Waste (Batteries)		0	0									0	0.00
	Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total			0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :			18.670	98.540	3.330	9.700	1.350	6.600	0	0	0	0	91.490	100.00
Total Waste Volume (lit.) :														320
Bulk Density (kg/lit.) :														0.286

Result of Waste Composition Survey in Male'

Residential Area (Micro Bins)

(unit : grams)

Sample No.		10	11	12	13	14	15	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date, 1998		20 Aug.	23 Aug.	24 Aug.	27 Aug.	29 Aug.	3 Sep.					
Organic Waste												
Food Waste		14,650	26,650	56,300	53,450	51,670	77,180	77,180	46,650	14,650	279,900	36.27
Paper	Paper	2,180	9,350	3,850	12,960	16,410	11,330	16,410	9,347	2,180	56,080	7.27
	Cardboard	480	5,520	5,750	13,320	6,040	6,000	13,320	6,185	480	37,110	4.81
	Subtotal	2,660	14,870	9,600	26,280	22,450	17,330	26,280	15,532	2,660	93,190	12.08
Plastics	Film	2,190	3,650	9,800	7,350	2,270	8,270	9,800	5,588	2,190	33,530	4.35
	Bottle & Others	670	440	1,570	2,730	3,680	1,650	3,680	1,790	440	10,740	1.39
	PET	500	590	1,110	260	870	550	1,110	647	260	3,880	0.50
	Subtotal	3,360	4,680	12,480	10,340	6,820	10,470	12,480	8,025	3,360	48,150	6.24
Rubber & Leather		700	1,680	1,720	760	0	1,820	1,820	1,113	0	6,680	0.87
Textiles		3,270	430	5,930	5,650	2,890	1,970	5,930	3,357	430	20,140	2.61
Yard Waste		3,180	530	20,020	9,500	8,650	24,320	24,820	11,117	530	66,700	8.64
Wood		450	680	5,000	0	0	0	5,000	1,022	0	6,130	0.79
Other Org. Waste		2,970	13,900	0	21,020	73,650	14,650	73,650	21,032	0	126,190	16.35
Organic Waste Total		31,240	63,420	111,050	127,000	166,130	148,240	166,130	107,847	31,240	647,080	83.86
In-organic Waste												
Glass	Broken Glass	470	180	880	960	980	280	980	625	180	3,750	0.49
	Bottle	1,750	1,010	2,750	3,650	3,630	370	3,650	2,193	370	13,160	1.71
	Subtotal	2,220	1,190	3,630	4,610	4,610	650	4,610	2,818	650	16,910	2.19
Tin Cans (Steel Cans)		1,380	2,500	3,520	3,310	3,080	5,100	5,100	3,148	1,380	18,890	2.45
Aluminum cans		240	600	210	190	1,270	450	1,270	493	190	2,960	0.38
Other Metals		0	1,780	800	1,240	1,100	0	1,780	820	0	4,920	0.64
Dirt, Ash, Sand		5,650	19,150	16,520	0	18,150	19,650	19,650	13,187	0	79,120	10.25
In-orrganic Waste Total		9,490	25,220	24,680	9,350	28,210	25,850	28,210	20,467	9,350	122,800	15.91
Hazardous Waste												
Hazardous Waste (Batteries)		280	40	0	320	240	0	320	147	0	880	0.11
Other Hazardous Waste		0	0	0	240	120	500	500	143	0	860	0.11
Hazardous Waste Total		280	40	0	560	360	500	560	290	0	1,740	0.23
Total Weight (kg) :		41,010	88,680	135,730	136,910	194,700	174,590	194,700	128,603	41,010	771,620	100.00
Total Waste Volume (lit.) :		200	290	480	440	640	560	640	435	200	2,610	
Bulk Density (kg/lit.) :		0.205	0.306	0.283	0.311	0.304	0.312	0.312	0.287	0.205	0.296	

Record Sheets (Male Municipality) (Sheet No. 10/39)

Survey Date :20 August	Code	Generation Sources	Code	Generation Sources	Code	Generation Source	
Generation Source : (A) Micro Bin	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)	
Weather Fine	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School	
Name of Surv : Mr. Ibrahim	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)	

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	16.000									14.650	35.72
Paper	Paper	2.320	4.500									2.180	5.32
	Cardboard	2.320	2.800									480	1.17
	Subtotal	4.640	7.300	0	0	0	0	0	0	0	0	2.660	6.49
Plastics	Film	1.350	3.540									2.190	5.34
	Bottle & Others	1.350	2.020									670	1.63
	PET	2.320	2.820									500	1.22
	Subtotal	5.020	8.380	0	0	0	0	0	0	0	0	3.360	8.19
Rubber & Leather		1.350	2.050									700	1.71
Textiles		1.350	4.620									3.270	7.97
Yard Waste		2.320	5.500									3.180	7.75
Wood		0	450									450	1.10
Other Org. Waste		1.350	4.320									2.970	7.24
Organic Waste Total		17.380	48.620	0	0	0	0	0	0	0	0	31.240	76.18
In-organic Waste												0	
Glass	Broken Glass	1.350	1.820									470	1.15
	Bottle	1.350	3.100									1.750	4.27
	Subtotal	2.700	4.920	0	0	0	0	0	0	0	0	2.220	5.41
Tin Cans (Steel Cans)		2.320	3.700									1.380	3.37
Aluminum cans		0	240									240	0.59
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		1.350	7.000									5.650	13.78
In-orrganic Waste Total		6.370	15.860	0	0	0	0	0	0	0	0	9.490	23.14
Hazardous Waste													
Hazardous Waste (Batteries)		0	280									280	0.68
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	280	0	0	0	0	0	0	0	0	280	0.68
Total Weight (kg) :		23.750	64.760	0	0	0	0	0	0	0	0	41.010	100.00
Total Waste Volume (lit.) :													200
Bulk Density (kg/lit.) :													0.205

Record Sheets (Male Municipality) (Sheet No. 11/39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 23 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (A) Micro Bin	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine/Shower	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ibrahim						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	28.000									26.650	30.05
Paper	Paper	1.980	8.000	1.350	4.680							9.350	10.54
	Cardboard	1.980	7.500									5.520	6.22
	Subtotal	3.960	15.500	1.350	4.680	0	0	0	0	0	0	14.870	16.77
Plastics	Film	1.350	5.000									3.650	4.12
	Bottle & Others	1.350	1.790									440	0.50
	PET	1.980	2.570									590	0.67
	Subtotal	4.680	9.360	0	0	0	0	0	0	0	0	4.680	5.28
Rubber & Leather		0	1.680									1.680	1.89
Textiles		1.350	1.780									430	0.48
Yard Waste		1.350	1.880									530	0.60
Wood		0	680									680	0.77
Other Org. Waste		1.350	15.250									13.900	15.67
Organic Waste Total		14.040	74.130	1.350	4.680	0	0	0	0	0	0	63.420	71.52
In-organic Waste												0	
Glass	Broken Glass	0	180									180	0.20
	Bottle	1.350	2.360									1.010	1.14
	Subtotal	1.350	2.540	0	0	0	0	0	0	0	0	1.190	1.34
Tin Cans (Steel Cans)		2.500	5.000									2.500	2.82
Aluminum cans		1.350	1.950									600	0.68
Other Metals		0	1.780									1.780	2.01
Dirt, Ash, Sand		1.350	20.500									19.150	21.59
In-orrganic Waste Total		6.550	31.770	0	0	0	0	0	0	0	0	25.220	28.44
Hazardous Waste													
Hazardous Waste (Batteries)		0	40									40	0.05
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	40	0	0	0	0	0	0	0	0	40	0.05
Total Weight (kg) :		20.590	105.940	1.350	4.680	0	0	0	0	0	0	88.680	100.00
Total Waste Volume (lit.) :													290
Bulk Density (kg/lit.) :													0.306

Record Sheets (Male Municipality) (Sheet No. 12/39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 24 August						
Generation Source	: (A) Micro Bin	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Weather	: Fine	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Name of Surveyor	: Mr. Ameen	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	30.000	1.350	29.000							56.300	41.48
Paper	Paper	1.350	5.500	1.350	1.050							3.850	2.84
	Cardboard	0	5.750									5.750	4.24
	Subtotal	1.350	11.250	1.350	1.050	0	0	0	0	0	0	9.600	7.07
Plastics	Film	1.350	4.250	1.350	8.250							9.800	7.22
	Bottle & Others	1.350	2.920									1.570	1.16
	PET	1.350	2.460									1.110	0.82
	Subtotal	4.050	9.630	1.350	8.250	0	0	0	0	0	0	12.480	9.19
Rubber & Leather		0	1.720									1.720	1.27
Textiles		2.320	8.250									5.930	4.37
Yard Waste		1.980	22.000									20.020	14.75
Wood		0	5.000									5.000	3.68
Other Org. Waste		0	0									0	0.00
Organic Waste Total		11.050	87.850	4.050	38.300	0	0	0	0	0	0	111.050	81.82
In-organic Waste												0	
Glass	Broken Glass	0	880									880	0.65
	Bottle	1.350	4.100									2.750	2.03
	Subtotal	1.350	4.980	0	0	0	0	0	0	0	0	3.630	2.67
Tin Cans (Steel Cans)		1.980	5.500									3.520	2.59
Aluminum cans		1.350	1.560									210	0.15
Other Metals		0	800									800	0.59
Dirt, Ash, Sand		1.980	18.500									16.520	12.17
In-orrganic Waste Total		6.660	31.340	0	0	0	0	0	0	0	0	24.680	18.18
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		17.710	119.190	4.050	38.300	0	0	0	0	0	0	135.730	100.00
Total Waste Volume (lit.) :													480
Bulk Density (kg/lit.) :													0.283

Record Sheets (Male Municipality) (Sheet No. 13/39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 27 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (A) Micro Bin	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	24.500	1.350	25.500	1.350	7.500					53.450	39.04
Paper	Paper	2.320	4.500	2.420	6.050	1.350	8.500					12.960	9.47
	Cardboard	0	5.500	0	2.880	0	2.320	0	2.620			13.320	9.73
	Subtotal	2.320	10.000	2.420	8.930	1.350	10.820	0	2.620	0	0	26.280	19.20
Plastics	Film	1.980	8.000	1.350	2.680							7.350	5.37
	Bottle & Others	1.350	4.080									2.730	1.99
	PET	0	260									260	0.19
	Subtotal	3.330	12.340	1.350	2.680	0	0	0	0	0	0	10.340	7.55
Rubber & Leather		0	760									760	0.56
Textiles		1.350	7.000									5.650	4.12
Yard Waste		2.500	12.000									9.500	6.94
Wood		0	0									0	0.00
Other Org. Waste		1.980	23.000									21.020	15.35
Organic Waste Total		12.830	89.600	5.120	37.110	2.700	18.320	0	2.620	0	0	127.000	92.76
In-organic Waste												0	
Glass	Broken Glass	0	960									960	0.70
	Bottle	1.350	5.000									3.650	2.67
	Subtotal	1.350	5.960	0	0	0	0	0	0	0	0	4.610	3.37
Tin Cans (Steel Cans)		1.350	4.660									3.310	2.42
Aluminum cans		1.350	1.540									190	0.14
Other Metals		0	1.240									1.240	0.91
Dirt, Ash, Sand		0	0									0	0.00
In-orrganic Waste Total		4.050	13.400	0	0	0	0	0	0	0	0	9.350	6.83
Hazardous Waste													
Hazardous Waste (Batteries)		0	320									320	0.23
Other Hazardous Waste		0	240									240	0.18
Hazardous Waste Total		0	560	0	0	0	0	0	0	0	0	560	0.41
Total Weight (kg) :		16.880	103.560	5.120	37.110	2.700	18.320	0	2.620	0	0	136.910	100.00
Total Waste Volume (lit.) :													440
Bulk Density (kg/lit.) :													0.311

Record Sheets (Male Municipality) (Sheet No. 14/39)

Survey Date : 29 August
Generation Source : (A) Micro Bin
Weather : Fine
Name of Surveyor : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	25.000	1.980	30.000							51.670	26.54
Paper	Paper	2.500	11.000	1.350	5.500	1.350	2.140	1.350	4.320			16.410	8.43
	Cardboard	0	2.260	0	3.780							6.040	3.10
	Subtotal	2.500	13.260	1.350	9.280	1.350	2.140	1.350	4.320	0	0	22.450	11.53
Plastics	Film	1.980	2.920	1.350	2.680							2.270	1.17
	Bottle & Others	2.320	6.000									3.680	1.89
	PET	1.350	2.220									870	0.45
	Subtotal	5.650	11.140	1.350	2.680	0	0	0	0	0	0	6.820	3.50
Rubber & Leather		0	0									0	0.00
Textiles		1.350	4.240									2.890	1.48
Yard Waste		1.350	10.000									8.650	4.44
Wood		0	0									0	0.00
Other Org. Waste		1.350	75.000									73.650	37.83
Organic Waste Total		13.550	138.640	4.680	41.960	1.350	2.140	1.350	4.320	0	0	166.130	85.33
In-organic Waste												0	
Glass	Broken Glass	0	980									980	0.50
	Bottle	1.350	4.980									3.630	1.86
	Subtotal	1.350	5.960	0	0	0	0	0	0	0	0	4.610	2.37
Tin Cans (Steel Cans)		2.420	5.500									3.080	1.58
Aluminum cans		1.350	2.620									1.270	0.65
Other Metals		0	1.100									1.100	0.56
Dirt, Ash, Sand		1.350	19.500									18.150	9.32
In-orrganic Waste Total		6.470	34.680	0	0	0	0	0	0	0	0	28.210	14.49
Hazardous Waste													
Hazardous Waste (Batteries)		0	240									240	0.12
Other Hazardous Waste		0	120									120	0.06
Hazardous Waste Total		0	360	0	0	0	0	0	0	0	0	360	0.18
Total Weight (kg) :		20.020	173.680	4.680	41.960	1.350	2.140	1.350	4.320	0	0	194.700	100.00
Total Waste Volume (lit.) :													640
Bulk Density (kg/lit.) :													0.304

Record Sheets (Male Municipality) (Sheet No. 15/39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 3 September						
Generation Source	: (A) Micro Bin	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Weather	: Cloudy	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Name of Surveyor	: Mr. Ameen	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		2.420	24.000	1.350	15.000	1.350	21.000	1.350	19.000	1.350	6.000	77.180	44.21
Paper	Paper	1.350	9.000	2.320	6.000							11.330	6.49
	Cardboard	0	2.900	0	3.100							6.000	3.44
	Subtotal	1.350	11.900	2.320	9.100	0	0	0	0	0	0	17.330	9.93
Plastics	Film	1.980	6.500	1.350	5.100							8.270	4.74
	Bottle & Others	1.350	3.000									1.650	0.95
	PET	1.350	1.900									550	0.32
	Subtotal	4.680	11.400	1.350	5.100	0	0	0	0	0	0	10.470	6.00
Rubber & Leather		0	1.820									1.820	1.04
Textiles		1.350	3.320									1.970	1.13
Yard Waste		1.980	6.000	1.350	20.000	1.350	3.500					24.820	14.22
Wood		0	0									0	0.00
Other Org. Waste		1.350	16.000									14.650	8.39
Organic Waste Total		13.130	74.440	6.370	49.200	2.700	24.500	1.350	19.000	1.350	6.000	148.240	84.91
In-organic Waste												0	
Glass	Broken Glass	0	280									280	0.16
	Bottle	1.350	1.720									370	0.21
	Subtotal	1.350	2.000	0	0	0	0	0	0	0	0	650	0.37
Tin Cans (Steel Cans)		1.350	5.100	1.350	2.700							5.100	2.92
Aluminum cans		1.350	1.800									450	0.26
Other Metals		0	0									0	0.00
Dirt. Ash. Sand		1.350	21.000									19.650	11.25
In-orrganic Waste Total		5.400	29.900	1.350	2.700	0	0	0	0	0	0	25.850	14.81
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	500									500	0.29
Hazardous Waste Total		0	500	0	0	0	0	0	0	0	0	500	0.29
Total Weight (kg) :		18.530	104.840	7.720	51.900	2.700	24.500	1.350	19.000	1.350	6.000	174.590	100.00
Total Waste Volume (lit.) :													560
Bulk Density (kg/lit.) :													0.312

Result of Waste Composition Survey in Male'

Commercial Area - General

(unit : grams)

Sample No.			16	17	18	19	20	21	22	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date. 1998			26 Aug.	26 Aug.	27 Aug.	29 Aug.	2 Sep.	2 Sep.	3 Sep.					
Organic Waste														
	Food Waste		8,650	200	3,650	3,630	19,680	21,650	33,970	33,970	13,061	200	91,430	12.83
	Paper	Paper	11,870	15,050	18,360	11,630	12,900	5,720	36,830	36,830	16,051	5,720	112,360	15.76
		Cardboard	43,380	32,360	37,240	61,930	14,200	10,980	21,200	61,930	31,613	10,980	221,290	31.04
		Subtotal	55,250	47,410	55,600	73,560	27,100	16,700	58,030	73,560	47,664	16,700	333,650	46.81
	Plastics	Film	6,450	9,690	3,180	8,220	4,150	2,800	6,900	9,690	5,913	2,800	41,390	5.81
		Bottle & Others	1,220	1,850	350	5,150	7,700	300	1,850	7,700	2,631	300	18,420	2.58
		PET	1,900	4,080	630	1,850	2,070	370	350	4,080	1,607	350	11,250	1.58
		Subtotal	9,570	15,620	4,160	15,220	13,920	3,470	9,100	15,620	10,151	3,470	71,060	9.97
	Rubber & Leather		620	2,850	1,020	1,220	340	500	1,650	2,850	1,173	340	8,210	1.15
	Textiles		2,030	1,400	6,650	1,340	2,850	3,400	1,770	6,650	2,777	1,340	19,440	2.73
	Yard Waste		8,150	0	2,150	0	16,300	7,580	16,150	16,300	7,190	0	50,330	7.06
	Wood		0	2,830	0	200	0	1,390	4,150	4,150	1,224	0	8,570	1.20
	Other Org. Waste		6,650	0	0	0	9,020	4,650	17,650	17,650	5,424	0	37,970	5.33
Organic Waste Total			90,920	70,310	73,230	95,180	89,210	59,340	142,470	142,470	88,666	59,340	620,660	87.07
In-organic Waste														
	Glass	Broken Glass	1,400	580	0	120	220	200	0	1,400	360	0	2,520	0.35
		Bottle	440	0	0	840	1,050	380	2,150	2,150	694	0	4,860	0.68
		Subtotal	1,840	580	0	960	1,270	580	2,150	2,150	1,054	0	7,380	1.04
	Tin Cans (Steel Cans)		1,650	590	1,650	1,210	2,150	1,250	4,650	4,650	1,879	590	13,150	1.84
	Aluminum cans		570	0	270	1,130	3,580	270	150	3,580	853	0	5,970	0.84
	Other Metals		700	200	0	1,540	0	0	0	1,540	349	0	2,440	0.34
	Dirt, Ash, Sand		0	0	9,000	0	13,650	14,150	23,080	23,080	8,554	0	59,880	8.40
In-orrganic Waste Total			4,760	1,370	10,920	4,840	20,650	16,250	30,030	30,030	12,689	1,370	88,820	12.46
Hazardous Waste														
	Hazardous Waste (Batteries)		900	0	540	340	220	100	700	900	400	0	2,800	0.39
	Other Hazardous Waste		0	0	100	240	0	120	100	240	80	0	560	0.08
Hazardous Waste Total			900	0	640	580	220	220	800	900	480	0	3,360	0.47
Total Weight (kg)			96,580	71,680	84,790	100,600	110,080	75,810	173,300	173,300	101,834	71,680	712,840	100.00
Total Waste Volume (lit.)			930	670	480	760	640	480	800	930	680	480	4,760	
Bulk Density (kg/lit.)			0.104	0.107	0.177	0.132	0.172	0.158	0.217	0.217	0.152	0.104	0.150	

Record Sheets (Male Municipality) (Sheet No. 16 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 26 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (B-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste			Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste														
	Food Waste		1,350	10,000									8,650	8.956306
	Paper	Paper	1,350	2,860	1,350	2,240	2,320	8,000	2,500	4,340	1,350	3,300	11,870	12.29033
		Cardboard	0	43,380									43,380	44.91613
		Subtotal	1,350	46,240	1,350	2,240	2,320	8,000	2,500	4,340	1,350	3,300	55,250	57.20646
	Plastics	Film	1,350	4,400	2,420	3,480	1,980	4,320					6,450	6.678401
		Bottle & Others	0	1,220									1,220	1.263201
		PET	0	1,900									1,900	1.967281
		Subtotal	1,350	7,520	2,420	3,480	1,980	4,320	0	0	0	0	9,570	9.908884
	Rubber & Leather		0	620									620	0.641955
	Textiles		1,350	3,380									2,030	2.101884
	Yard Waste		1,350	9,500									8,150	8.4386
	Wood		0	0									0	0
	Other Org. Waste		1,350	8,000									6,650	6.885484
Organic Waste Total			8,100	85,260	3,770	5,720	4,300	12,320	2,500	4,340	1,350	3,300	90,920	94.13957
In-organic Waste														
	Glass	Broken Glass	0	1,400									1,400	1.449575
		Bottle	0	440									440	0.455581
		Subtotal	0	1,840	0	0	0	0	0	0	0	0	1,840	1.905156
	Tin Cans (Steel Cans)		1,350	3,000									1,650	1.708428
	Aluminum cans		1,350	1,920									570	0.590184
	Other Metals		0	700									700	0.724788
	Dirt, Ash, Sand		0	0									0	0
In-orrganic Waste Total			2,700	7,460	0	0	0	0	0	0	0	0	4,760	4.928557
Hazardous Waste														
	Hazardous Waste (Batteries)		0	900									900	0.93187
	Other Hazardous Waste		0	0									0	0
Hazardous Waste Total			0	900	0	0	0	0	0	0	0	0	900	0.93187
Total Weight (kg) :			10,800	93,620	3,770	5,720	4,300	12,320	2,500	4,340	1,350	3,300	96,580	100
Total Waste Volume (lit.) :														930
Bulk Density (kg/lit.) :														0.104

Record Sheets (Male Municipality) (Sheet No. 17 / 39)

Survey Date : 26 August
Generation Source : (B-1)
Weather : Fine
Name of Surveyor : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		0	200									200	0.279018
Paper	Paper	1.350	4.920	1.350	4.700	1.980	3.300	2.500	6.000	1.350	4.660	15.050	20.99609
	Cardboard	0	7.500	0	4.680	0	3.180	0	7.500	0	9.500	32.360	45.14509
	Subtotal	1.350	12.420	1.350	9.380	1.980	6.480	2.500	13.500	1.350	14.160	47.410	66.14118
Plastics	Film	2.320	4.020	1.350	2.840	0	3.480	1.980	5.000			9.690	13.51842
	Bottle & Others	1.350	3.200									1.850	2.580915
	PET	2.420	6.500									4.080	5.691964
	Subtotal	6.090	13.720	1.350	2.840	0	3.480	1.980	5.000	0	0	15.620	21.79129
Rubber & Leather		1.350	4.200									2.850	3.976004
Textiles		0	1.400									1.400	1.953125
Yard Waste		0	0									0	0
Wood		1.350	4.180									2.830	3.948103
Other Org. Waste		0	0									0	0
Organic Waste Total		10.140	36.120	2.700	12.220	1.980	9.960	4.480	18.500	1.350	14.160	70.310	98.08873
In-organic Waste													
Glass	Broken Glass	0	580									580	0.809152
	Bottle	0	0									0	0
	Subtotal	0	580	0	0	0	0	0	0	0	0	580	0.809152
Tin Cans (Steel Cans)		1.350	1.940									590	0.823103
Aluminum cans		0	0									0	0
Other Metals		0	200									200	0.279018
Dirt, Ash, Sand		0	0									0	0
In-orrganic Waste Total		1.350	2.720	0	0	0	0	0	0	0	0	1.370	1.911272
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0
Other Hazardous Waste		0	0									0	0
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0
Total Weight (kg) :		11.490	38.840	2.700	12.220	1.980	9.960	4.480	18.500	1.350	14.160	71.680	100
Total Waste Volume (lit.) :													670
Bulk Density (kg/lit.) :													0.107

Record Sheets (Male Municipality) (Sheet No. 18 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 27 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (B-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	5.000									3.650	4.304753
Paper	Paper	1.350	4.240	2.420	7.000	1.980	6.200	1.980	6.300	1.350	3.700	18.360	21.6535
	Cardboard	0	37.240									37.240	43.92027
	Subtotal	1.350	41.480	2.420	7.000	1.980	6.200	1.980	6.300	1.350	3.700	55.600	65.57377
Plastics	Film	2.320	5.500									3.180	3.750442
	Bottle & Others	1.350	1.700									350	0.412785
	PET	1.350	1.980									630	0.743012
	Subtotal	5.020	9.180	0	0	0	0	0	0	0	0	4.160	4.906239
Rubber & Leather		0	1.020									1.020	1.202972
Textiles		1.350	8.000									6.650	7.842906
Yard Waste		1.350	3.500									2.150	2.535676
Wood		0	0									0	0
Other Org. Waste		0	0									0	0
Organic Waste Total		10.420	68.180	2.420	7.000	1.980	6.200	1.980	6.300	1.350	3.700	73.230	86.36632
In-organic Waste													
Glass	Broken Glass	0	0									0	0
	Bottle	0	0									0	0
	Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
Tin Cans (Steel Cans)		1.350	3.000									1.650	1.945984
Aluminum cans		1.350	1.620									270	0.318434
Other Metals		0	0									0	0
Dirt, Ash, Sand		2.500	11.500									9.000	10.61446
In-orrganic Waste Total		5.200	16.120	0	0	0	0	0	0	0	0	10.920	12.87888
Hazardous Waste													
Hazardous Waste (Batteries)		0	540									540	0.636868
Other Hazardous Waste		0	100									100	0.117938
Hazardous Waste Total		0	640	0	0	0	0	0	0	0	0	640	0.754806
Total Weight (kg) :		15.620	84.940	2.420	7.000	1.980	6.200	1.980	6.300	1.350	3.700	84.790	100
Total Waste Volume (lit.) :													480
Bulk Density (kg/lit.) :													0.177

Record Sheets (Male Municipality) (Sheet No. 19 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 29 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (B-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1,350	4,980									3,630	3.60835
Paper	Paper	1,980	5,000	1,350	4,840	2,420	5,000	2,320	4,860			11,630	11.56064
	Cardboard	0	5,000	0	25,000	0	18,000	0	8,950	0	4,980	61,930	61.56064
	Subtotal	1,980	10,000	1,350	29,840	2,420	23,000	2,320	13,810	0	4,980	73,560	73.12127
Plastics	Film	1,350	3,860	2,420	5,500	1,350	3,980					8,220	8.170974
	Bottle & Others	1,350	6,500									5,150	5.119284
	PET	1,350	3,200									1,850	1.838966
	Subtotal	4,050	13,560	2,420	5,500	1,350	3,980	0	0	0	0	15,220	15.12922
Rubber & Leather		1,350	2,580									1,230	1.222664
Textiles		0	1,340									1,340	1.332008
Yard Waste		0	0									0	0
Wood		0	200									200	0.198807
Other Org. Waste		0	0									0	0
Organic Waste Total		8,730	32,660	3,770	35,340	3,770	26,980	2,320	13,810	0	4,980	95,180	94.61233
In-organic Waste													
Glass	Broken Glass	0	120									120	0.119284
	Bottle	0	840									840	0.83499
	Subtotal	0	960	0	0	0	0	0	0	0	0	960	0.954274
Tin Cans (Steel Cans)		1,350	2,560									1,210	1.202783
Aluminum cans		1,350	2,480									1,130	1.12326
Other Metals		0	1,540									1,540	1.530815
Dirt, Ash, Sand		0	0									0	0
In-orrganic Waste Total		2,700	7,540	0	0	0	0	0	0	0	0	4,840	4.811133
Hazardous Waste													
Hazardous Waste (Batteries)		0	340									340	0.337972
Other Hazardous Waste		0	240									240	0.238569
Hazardous Waste Total		0	580	0	0	0	0	0	0	0	0	580	0.576541
Total Weight (kg) :		11,430	40,780	3,770	35,340	3,770	26,980	2,320	13,810	0	4,980	100,600	100
Total Waste Volume (lit.) :													760
Bulk Density (kg/lit.) :													0.132

Record Sheets (Male Municipality) (Sheet No. 20 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 2 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (B-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		2.320	22.000									19.680	17.87791
Paper	Paper	1.350	8.600	1.350	7.000							12.900	11.71875
	Cardboard	0	4.700	0	4.300	0	3.400	0	1.800			14.200	12.89971
	Subtotal	1.350	13.300	1.350	11.300	0	3.400	0	1.800	0	0	27.100	24.61846
Plastics	Film	1.350	5.500									4.150	3.769985
	Bottle & Others	1.350	6.000	1.350	2.000	2.420	4.820					7.700	6.994913
	PET	1.350	3.420									2.070	1.880451
	Subtotal	4.050	14.920	1.350	2.000	2.420	4.820	0	0	0	0	13.920	12.64535
Rubber & Leather		0	340									340	0.308866
Textiles		1.350	4.200									2.850	2.589026
Yard Waste		1.350	11.000	1.350	8.000							16.300	14.80741
Wood		0	0									0	0
Other Org. Waste		1.980	11.000									9.020	8.194041
Organic Waste Total		12.400	76.760	4.050	21.300	2.420	8.220	0	1.800	0	0	89.210	81.04106
In-organic Waste													
Glass	Broken Glass	0	220									220	0.199855
	Bottle	1.350	2.400									1.050	0.953852
	Subtotal	1.350	2.620	0	0	0	0	0	0	0	0	1.270	1.153706
Tin Cans (Steel Cans)		1.350	3.500									2.150	1.953125
Aluminum cans		2.420	6.000									3.580	3.25218
Other Metals		0	0									0	0
Dirt, Ash, Sand		1.350	15.000									13.650	12.40007
In-orrganic Waste Total		6.470	27.120	0	0	0	0	0	0	0	0	20.650	18.75908
Hazardous Waste													
Hazardous Waste (Batteries)		0	220									220	0.199855
Other Hazardous Waste		0	0									0	0
Hazardous Waste Total		0	220	0	0	0	0	0	0	0	0	220	0.199855
Total Weight (kg) :		18.870	104.100	4.050	21.300	2.420	8.220	0	1.800	0	0	110.080	100
Total Waste Volume (lit.) :													640
Bulk Density (kg/lit.) :													0.172

Record Sheets (Male Municipality) (Sheet No. 21 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 2 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (B-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	23.000									21.650	28.55824
Paper	Paper	1.350	6.500	1.350	1.920							5.720	7.545179
	Cardboard	0	4.500	0	2.380	0	2.460	0	1.640			10.980	14.48358
	Subtotal	1.350	11.000	1.350	4.300	0	2.460	0	1.640	0	0	16.700	22.02876
Plastics	Film	1.350	3.580	1.350	1.920							2.800	3.693444
	Bottle & Others	0	300									300	0.395726
	PET	1.350	1.720									370	0.488062
	Subtotal	2.700	5.600	1.350	1.920	0	0	0	0	0	0	3.470	4.577233
Rubber & Leather		0	500									500	0.659544
Textiles		0	3.400									3.400	4.484896
Yard Waste		2.420	10.000									7.580	9.998681
Wood		1.350	2.740									1.390	1.833531
Other Org. Waste		1.350	6.000									4.650	6.133755
Organic Waste Total		10.520	62.240	2.700	6.220	0	2.460	0	1.640	0	0	59.340	78.27463
In-organic Waste													
Glass	Broken Glass	0	200									200	0.263817
	Bottle	0	380									380	0.501253
	Subtotal	0	580	0	0	0	0	0	0	0	0	580	0.765071
Tin Cans (Steel Cans)		1.350	2.600									1.250	1.648859
Aluminum cans		1.350	1.620									270	0.356154
Other Metals		0	0									0	0
Dirt. Ash. Sand		1.350	15.500									14.150	18.66508
In-orrganic Waste Total		4.050	20.300	0	0	0	0	0	0	0	0	16.250	21.43517
Hazardous Waste													
Hazardous Waste (Batteries)		0	100									100	0.131909
Other Hazardous Waste		0	120									120	0.15829
Hazardous Waste Total		0	220	0	0	0	0	0	0	0	0	220	0.290199
Total Weight (kg) :		14.570	82.760	2.700	6.220	0	2.460	0	1.640	0	0	75.810	100
Total Waste Volume (lit.) :													480
Bulk Density (kg/lit.) :													0.158

Record Sheets (Male Municipality) (Sheet No. 22 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 3 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (B-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Cloudy	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	11.000	1.980	6.000	1.350	14.000	1.350	9.000			33.970	19.60
Paper	Paper	2.420	19.500	1.350	3.700	1.350	5.100	1.350	15.000			36.830	21.25
	Cardboard	0	4.000	0	3.200	0	4.300	0	4.900	0	4.800	21.200	12.23
	Subtotal	2.420	23.500	1.350	6.900	1.350	9.400	1.350	19.900	0	4.800	58.030	33.49
Plastics	Film	1.350	5.500	1.350	4.100							6.900	3.98
	Bottle & Others	1.350	3.200									1.850	1.07
	PET	1.350	1.700									350	0.20
	Subtotal	4.050	10.400	1.350	4.100	0	0	0	0	0	0	9.100	5.25
Rubber & Leather		1.350	3.000									1.650	0.95
Textiles		1.350	3.120									1.770	1.02
Yard Waste		1.350	17.500									16.150	9.32
Wood		1.350	5.500									4.150	2.39
Other Org. Waste		1.350	19.000									17.650	10.18
Organic Waste Total		14.570	93.020	4.680	17.000	2.700	23.400	2.700	28.900	0	4.800	142.470	82.21
In-organic Waste													
Glass	Broken Glass	0	0									0	0.00
	Bottle	1.350	3.500									2.150	1.24
	Subtotal	1.350	3.500	0	0	0	0	0	0	0	0	2.150	1.24
Tin Cans (Steel Cans)		1.350	6.000									4.650	2.68
Aluminum cans		1.350	1.500									150	0.09
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		2.420	25.500									23.080	13.32
In-orrganic Waste Total		6.470	36.500	0	0	0	0	0	0	0	0	30.030	17.33
Hazardous Waste													
Hazardous Waste (Batteries)		0	700									700	0.40
Other Hazardous Waste		0	100									100	0.06
Hazardous Waste Total		0	800	0	0	0	0	0	0	0	0	800	0.46
Total Weight (kg) :		21.040	130.320	4.680	17.000	2.700	23.400	2.700	28.900	0	4.800	173.300	100
Total Waste Volume (lit.) :													800
Bulk Density (kg/lit.) :													0.217

Result of Waste Composition Survey in Male'

Buildings - Governmnet Offices

(unit : grams)

Sample No.		23	24	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date, 1998		27 Aug.	31 Aug.					
Organic Waste								
Food Waste		0	6,650	6,650	3,325	0	6,650	4.63
Paper	Paper	31,940	38,900	38,900	35,420	31,940	70,840	49.36
	Cardboard	4,200	1,850	4,200	3,025	1,850	6,050	4.22
	Subtotal	36,140	40,750	40,750	38,445	36,140	76,890	53.58
Plastics	Film	2,050	1,990	2,050	2,020	1,990	4,040	2.82
	Bottle & Others	3,290	2,550	3,290	2,920	2,550	5,840	4.07
	PET	550	2,950	2,950	1,750	550	3,500	2.44
	Subtotal	5,890	7,490	7,490	6,690	5,890	13,380	9.32
Rubber & Leather		0	630	630	315	0	630	0.44
Textiles		0	630	630	315	0	630	0.44
Yard Waste		23,320	12,760	23,320	18,040	12,760	36,080	25.14
Wood		0	1,740	1,740	870	0	1,740	1.21
Other Org. Waste		1,150	1,270	1,270	1,210	1,150	2,420	1.69
Organic Waste Total		66,500	71,920	71,920	69,210	66,500	138,420	96.45
In-organic Waste								
Glass	Broken Glass	0	0	0	0	0	0	0.00
	Bottle	1,550	300	1,550	925	300	1,850	1.29
	Subtotal	1,550	300	1,550	925	300	1,850	1.29
Tin Cans (Steel Cans)		450	1,390	1,390	920	450	1,840	1.28
Aluminum cans		770	250	770	510	250	1,020	0.71
Other Metals		0	180	180	90	0	180	0.13
Dirt, Ash, Sand		0	0	0	0	0	0	0.00
In-orrganic Waste Total		2,770	2,120	2,770	2,445	2,120	4,890	3.41
Hazardous Waste								
Hazardous Waste (Batteries)		0	0	0	0	0	0	0.00
Other Hazardous Waste		0	200	200	100	0	200	0.14
Hazardous Waste Total		0	200	200	100	0	200	0.14
Total Weight (kg)		69,270	74,240	74,240	71,755	69,270	143,510	100.00
Total Waste Volume (lit.)		720	720	720	720	720	1,440	
Bulk Density (kg/lit.)		0.096	0.103	0.103	0.100	0.096	0.100	

Record Sheets (Male Municipality) (Sheet No. 23 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 27 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (C-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		0	0									0	0.00
Paper	Paper	1,980	6,000	1,350	3,780	1,350	2,200	2,320	6,000	3,840	24,800	31,940	46.11
	Cardboard	0	2,600	0	1,600							4,200	6.06
	Subtotal	1,980	8,600	1,350	5,380	1,350	2,200	2,320	6,000	3,840	24,800	36,140	52.17
Plastics	Film	1,350	3,400									2,050	2.96
	Bottle & Others	1,350	2,900	2,500	4,240							3,290	4.75
	PET	1,350	1,900									550	0.79
	Subtotal	4,050	8,200	2,500	4,240	0	0	0	0	0	0	5,890	8.50
Rubber & Leather		0	0									0	0.00
Textiles		0	0									0	0.00
Yard Waste		1,980	6,500	1,350	2,500	1,350	7,000	2,500	14,500			23,320	33.67
Wood		0	0									0	0.00
Other Org. Waste		1,350	2,500									1,150	1.66
Organic Waste Total		9,360	25,800	5,200	12,120	2,700	9,200	4,820	20,500	3,840	24,800	66,500	96.00
In-organic Waste													
Glass	Broken Glass	0	0									0	0.00
	Bottle	1,350	2,900									1,550	2.24
	Subtotal	1,350	2,900	0	0	0	0	0	0	0	0	1,550	2.24
Tin Cans (Steel Cans)		1,350	1,800									450	0.65
Aluminum cans		1,350	2,120									770	1.11
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		0	0									0	0.00
In-orrganic Waste Total		4,050	6,820	0	0	0	0	0	0	0	0	2,770	4.00
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		13,410	32,620	5,200	12,120	2,700	9,200	4,820	20,500	3,840	24,800	69,270	100
Total Waste Volume (lit.) :													720
Bulk Density (kg/lit.) :													0.096

Record Sheets (Male Municipality) (Sheet No. 23 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 31 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (C-1)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2 (g)	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	8.000									6.650	8.96
Paper	Paper	2.420	12.500	2.420	10.500	2.420	9.500	2.420	13.500	2.420	5.000	38.900	52.40
	Cardboard	1.350	3.200									1.850	2.49
	Subtotal	3.770	15.700	2.420	10.500	2.420	9.500	2.420	13.500	2.420	5.000	40.750	54.89
Plastics	Film	1.350	3.340									1.990	2.68
	Bottle & Others	1.350	3.900									2.550	3.43
	PET	1.350	4.300									2.950	3.97
	Subtotal	4.050	11.540	0	0	0	0	0	0	0	0	7.490	10.09
Rubber & Leather		1.350	1.980									630	0.85
Textiles		1.350	1.980									630	0.85
Yard Waste		2.420	9.000	2.320	8.500							12.760	17.19
Wood		0	1.740									1.740	2.34
Other Org. Waste		1.350	2.620									1.270	1.71
Organic Waste Total		15.640	52.560	4.740	19.000	2.420	9.500	2.420	13.500	2.420	5.000	71.920	96.88
In-organic Waste													
Glass	Broken Glass	0	0									0	0.00
	Bottle	0	300									300	0.40
	Subtotal	0	300	0	0	0	0	0	0	0	0	300	0.40
Tin Cans (Steel Cans)		1.350	2.740									1.390	1.87
Aluminum cans		1.350	1.600									250	0.34
Other Metals		0	180									180	0.24
Dirt, Ash, Sand		0	0									0	0.00
In-orrganic Waste Total		2.700	4.820	0	0	0	0	0	0	0	0	2.120	2.86
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	200									200	0.27
Hazardous Waste Total		0	200	0	0	0	0	0	0	0	0	200	0.27
Total Weight (kg) :		18.340	57.580	4.740	19.000	2.420	9.500	2.420	13.500	2.420	5.000	74.240	100
Total Waste Volume (lit.) :													720
Bulk Density (kg/lit.) :													0.103

Result of Waste Composition Survey in Male'

Buildings - Private Offices & Shops

(unit : grams)

Sample No.			25	26	27	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date, 1998			31 Aug.	1 Sep.	1 Sep.					
Organic Waste										
	Food Waste		0	26,300	11,800	26,300	12,700	0	38,100	21.08
	Paper	Paper	16,440	10,220	7,590	16,440	11,417	7,590	34,250	18.95
		Cardboard	14,620	19,920	18,400	19,920	17,647	14,620	52,940	29.28
		Subtotal	31,060	30,140	25,990	31,060	29,063	25,990	87,190	48.23
	Plastics	Film	1,350	2,320	2,010	2,320	1,893	1,350	5,680	3.14
		Bottle & Others	3,680	720	870	3,680	1,757	720	5,270	2.92
		PET	120	970	550	970	547	120	1,640	0.91
		Subtotal	5,150	4,010	3,430	5,150	4,197	3,430	12,590	5.96
	Rubber & Leather		1,480	800	700	1,480	993	700	2,980	1.65
	Textiles		0	740	1,780	1,780	840	0	2,520	1.39
	Yard Waste		1,400	2,830	4,080	4,080	2,770	1,400	8,310	4.60
	Wood		800	0	1,770	1,770	857	0	2,570	1.42
	Other Org. Waste		0	0	5,150	5,150	1,717	0	5,150	2.85
Organic Waste Total			39,890	64,820	54,700	64,820	53,137	39,890	159,410	88.18
In-organic Waste										
	Glass	Broken Glass	0	650	100	650	250	0	750	0.41
		Bottle	520	280	1,450	1,450	750	280	2,250	1.24
		Subtotal	520	930	1,550	1,550	1,000	520	3,000	1.66
	Tin Cans (Steel Cans)		420	1,550	1,250	1,550	1,073	420	3,220	1.78
	Aluminum cans		200	350	350	350	300	200	900	0.50
	Other Metals		0	0	0	0	0	0	0	0.00
	Dirt, Ash, Sand		8,650	1,950	2,450	8,650	4,350	1,950	13,050	7.22
In-orrganic Waste Total			9,790	4,780	5,600	9,790	6,723	4,780	20,170	11.16
Hazardous Waste										
	Hazardous Waste (Batteries)		0	660	280	660	313	0	940	0.52
	Other Hazardous Waste		0	140	120	140	87	0	260	0.14
Hazardous Waste Total			0	800	400	800	400	0	1,200	0.66
Total Weight (kg)			49,680	70,400	60,700	70,400	60,260	49,680	180,780	100.00
Total Waste Volume (lit.)			560	640	560	640	587	560	1,760	
Bulk Density (kg/lit.)			0.089	0.110	0.108	0.110	0.102	0.089	0.103	

Record Sheets (Male Municipality) (Sheet No. 25 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 31 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (C-2)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		0	0									0	0.00
Paper	Paper	2,320	8,500	2,400	5,500	2,420	6,000	2,420	6,000			16,440	33.09
	Cardboard	0	2,100	0	4,320	0	3,780	0	4,420			14,620	29.43
	Subtotal	2,320	10,600	2,400	9,820	2,420	9,780	2,420	10,420	0	0	31,060	62.52
Plastics	Film	1,350	2,700									1,350	2.72
	Bottle & Others	2,320	6,000									3,680	7.41
	PET	0	120									120	0.24
	Subtotal	3,670	8,820	0	0	0	0	0	0	0	0	5,150	10.37
Rubber & Leather		0	1,480									1,480	2.98
Textiles		0	0									0	0.00
Yard Waste		2,400	3,800									1,400	2.82
Wood		0	800									800	1.61
Other Org. Waste		0	0									0	0.00
Organic Waste Total		8,390	25,500	2,400	9,820	2,420	9,780	2,420	10,420	0	0	39,890	80.29
In-organic Waste													
Glass	Broken Glass	0	0									0	0.00
	Bottle	0	520									520	1.05
	Subtotal	0	520	0	0	0	0	0	0	0	0	520	1.05
Tin Cans (Steel Cans)		0	420									420	0.85
Aluminum cans		0	200									200	0.40
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		1,350	10,000									8,650	17.41
In-orrganic Waste Total		1,350	11,140	0	0	0	0	0	0	0	0	9,790	19.71
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Subotal		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		9,740	36,640	2,400	9,820	2,420	9,780	2,420	10,420	0	0	49,680	100.00
Total Waste Volume (lit.) :													560
Bulk Density (kg/lit.) :													0.089

Record Sheets (Male Municipality) (Sheet No. 26 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 1 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (C-2)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Cloudy	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1,350	17,000	1,350	12,000							26,300	37.36
Paper	Paper	1,350	4,400	1,980	4,700	1,350	3,100	1,350	2,500	1,350	2,900	10,220	14.52
	Cardboard	0	3,500	0	3,700	0	3,900	0	4,100	0	4,720	19,920	28.30
	Subtotal	1,350	7,900	1,980	8,400	1,350	7,000	1,350	6,600	1,350	7,620	30,140	42.81
Plastics	Film	2,420	4,740									2,320	3.30
	Bottle & Others	0	720									720	1.02
	PET	1,350	2,320									970	1.38
	Subtotal	3,770	7,780	0	0	0	0	0	0	0	0	4,010	5.70
Rubber & Leather		0	800									800	1.14
Textiles		0	740									740	1.05
Yard Waste		1,350	4,180									2,830	4.02
Wood		0	0									0	0.00
Other Org. Waste		0	0									0	0.00
Organic Waste Total		7,820	38,400	3,330	20,400	1,350	7,000	1,350	6,600	1,350	7,620	64,820	92.07
In-organic Waste													
Glass	Broken Glass	1,350	2,000									650	0.92
	Bottle	0	280									280	0.40
	Subtotal	1,350	2,280	0	0	0	0	0	0	0	0	930	1.32
Tin Cans (Steel Cans)		1,350	2,900									1,550	2.20
Aluminum cans		1,350	1,700									350	0.50
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		1,350	3,300									1,950	2.77
In-orrganic Waste Total		5,400	10,180	0	0	0	0	0	0	0	0	4,780	6.79
Hazardous Waste													
Hazardous Waste (Batteries)		0	660									660	0.94
Other Hazardous Waste		0	140									140	0.20
Hazardous Waste Subotal		0	800	0	0	0	0	0	0	0	0	800	1.14
Total Weight (kg) :		13,220	49,380	3,330	20,400	1,350	7,000	1,350	6,600	1,350	7,620	70,400	100.00
Total Waste Volume (lit.) :													640
Bulk Density (kg/lit.) :													0.110

Record Sheets (Male Municipality) (Sheet No. 27 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 1 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (C-2)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Cloudy	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1,350	5,500	1,350	9,000							11,800	19.44
Paper	Paper	1,350	3,680	1,350	3,720	1,350	4,240					7,590	12.50
	Cardboard	0	1,820	0	4,620	0	4,100	0	3,240	0	4,620	18,400	30.31
	Subtotal	1,350	5,500	1,350	8,340	1,350	8,340	0	3,240	0	4,620	25,990	42.82
Plastics	Film	1,350	2,500	1,940	2,800							2,010	3.31
	Bottle & Others	1,350	2,220									870	1.43
	PET	1,350	1,900									550	0.91
	Subtotal	4,050	6,620	1,940	2,800	0	0	0	0	0	0	3,430	5.65
Rubber & Leather		0	700									700	1.15
Textiles		2,320	4,100									1,780	2.93
Yard Waste		2,420	6,500									4,080	6.72
Wood		1,350	3,120									1,770	2.92
Other Org. Waste		1,350	6,500									5,150	8.48
Organic Waste Total		14,190	38,540	4,640	20,140	1,350	8,340	0	3,240	0	4,620	54,700	90.12
In-organic Waste													
Glass	Broken Glass	0	100									100	0.16
	Bottle	1,350	2,800									1,450	2.39
	Subtotal	1,350	2,900	0	0	0	0	0	0	0	0	1,550	2.55
Tin Cans (Steel Cans)		1,350	2,400	0	200							1,250	2.06
Aluminum cans		1,350	1,700									350	0.58
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		1,350	3,800									2,450	4.04
In-orrganic Waste Total		5,400	10,800	0	200	0	0	0	0	0	0	5,600	9.23
Hazardous Waste													
Hazardous Waste (Batteries)		0	280									280	0.46
Other Hazardous Waste		0	120									120	0.20
Hazardous Waste Subotal		0	400	0	0	0	0	0	0	0	0	400	0.66
Total Weight (kg) :		19,590	49,740	4,640	20,340	1,350	8,340	0	3,240	0	4,620	60,700	100.00
Total Waste Volume (lit.) :													560
Bulk Density (kg/lit.) :													0.108

Result of Waste Composition Survey in Male'

Market & Public Areas

(unit : grams)

Sample No.			28	29	30	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date. 1998			29 Aug.	30 Aug.	30 Aug.					
Organic Waste										
	Food Waste		19,150	11,650	106,780	106,780	45,860	11,650	137,580	40.27
	Paper	Paper	5,190	6,050	15,770	15,770	9,003	5,190	27,010	7.91
		Cardboard	5,190	3,860	11,930	11,980	8,677	5,190	26,030	7.62
		Subtotal	10,380	14,910	27,750	27,750	17,680	10,380	53,040	15.52
	Plastics	Film	6,380	3,250	8,850	8,850	6,160	3,250	18,480	5.41
		Bottle & Others	2,510	2,750	1,380	2,750	2,213	1,380	6,640	1.94
		PET	1,050	750	750	1,050	850	750	2,550	0.75
		Subtotal	9,940	6,750	10,980	10,980	9,223	6,750	27,670	8.10
	Rubber & Leather		1,200	2,850	600	2,850	1,550	600	4,650	1.36
	Textiles		820	1,050	1,870	1,870	1,247	820	3,740	1.09
	Yard Waste		6,020	6,150	4,650	6,150	5,607	4,650	16,820	4.92
	Wood		320	3,260	7,890	7,890	3,823	320	11,470	3.36
	Other Org. Waste		3,180	8,580	9,650	9,650	7,137	3,180	21,410	6.27
Organic Waste Total			51,010	55,200	170,170	170,170	92,127	51,010	276,380	80.89
In-organic Waste										
	Glass	Broken Glass	1,500	400	0	1,500	633	0	1,900	0.56
		Bottle	2,270	5,150	2,050	5,150	3,157	2,050	9,470	2.77
		Subtotal	3,770	5,550	2,050	5,550	3,790	2,050	11,370	3.33
	Tin Cans (Steel Cans)		2,030	2,150	7,330	7,330	3,837	2,030	11,510	3.37
	Aluminum cans		690	750	1,700	1,700	1,047	690	3,140	0.92
	Other Metals		0	120	400	400	173	0	520	0.15
	Dirt, Ash, Sand		14,650	14,080	8,650	14,650	12,460	8,650	37,380	10.94
In-orrganic Waste Total			21,140	22,650	20,130	22,650	21,307	20,130	63,920	18.71
Hazardous Waste										
	Hazardous Waste (Batteries)		180	0	200	200	127	0	380	0.11
	Other Hazardous Waste		1,000	0	0	1,000	333	0	1,000	0.29
Hazardous Waste Total			1,180	0	200	1,180	460	0	1,380	0.40
Total Weight (kg)			73,330	77,850	190,500	190,500	113,893	73,330	341,680	100.00
Total Waste Volume (lit.)			440	560	720	720	573	440	1,720	
Bulk Density (kg/lit.)			0.167	0.139	0.265	0.265	0.190	0.139	0.199	

Record Sheets (Male Municipality) (Sheet No. 28 / 39)

Survey Date : 29 August
Generation Source : (D)
Weather : Fine
Name of Surveyor : Mr. Ameen

Code	Generation Sources	Code	Generation Sources	Code	Generation Source
A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1,350	20,500									19,150	26.11
Paper	Paper	1,350	2,040	2,500	7,000							5,190	7.08
	Cardboard	0	1,860	0	1,980	0	1,350					5,190	7.08
	Subtotal	1,350	3,900	2,500	8,980	0	1,350	0	0	0	0	10,380	14.16
Plastics	Film	2,420	6,000	1,350	2,660	1,350	2,840					6,380	8.70
	Bottle & Others	1,350	3,860									2,510	3.42
	PET	1,350	2,400									1,050	1.43
	Subtotal	5,120	12,260	1,350	2,660	1,350	2,840	0	0	0	0	9,940	13.56
Rubber & Leather		0	1,200									1,200	1.64
Textiles		1,980	2,800									820	1.12
Yard Waste		1,980	8,000									6,020	8.21
Wood		0	320									320	0.44
Other Org. Waste		2,320	5,500									3,180	4.34
Organic Waste Total		14,100	54,480	3,850	11,640	1,350	4,190	0	0	0	0	51,010	69.56
In-organic Waste													
Glass	Broken Glass	0	1,500									1,500	2.05
	Bottle	1,350	3,620									2,270	3.10
	Subtotal	1,350	5,120	0	0	0	0	0	0	0	0	3,770	5.14
Tin Cans (Steel Cans)		1,350	3,380									2,030	2.77
Aluminum cans		1,350	2,040									690	0.94
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		1,350	16,000									14,650	19.98
In-orrganic Waste Total		5,400	26,540	0	0	0	0	0	0	0	0	21,140	28.83
Hazardous Waste													
Hazardous Waste (Batteries)		0	180									180	0.25
Other Hazardous Waste		0	1,000									1,000	1.36
Hazardous Waste Total		0	1,180	0	0	0	0	0	0	0	0	1,180	1.61
Total Weight (kg) :		19,500	82,200	3,850	11,640	1,350	4,190	0	0	0	0	73,330	100.00
Total Waste Volume (lit.) :													440
Bulk Density (kg/lit.) :													0.167

Record Sheets (Male Municipality) (Sheet No. 29 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 30 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (D)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	13.000									11.650	14.96
Paper	Paper	2.320	7.000	1.350	2.720							6.050	7.77
	Cardboard	0	3.280	0	3.280	0	2.300					8.860	11.38
	Subtotal	2.320	10.280	1.350	6.000	0	2.300	0	0	0	0	14.910	19.15
Plasties	Film	1.350	2.300	1.980	3.000	1.350	1.800	1.350	2.180			3.250	4.17
	Bottle & Others	1.350	4.100									2.750	3.53
	PET	1.350	2.100									750	0.96
	Subtotal	4.050	8.500	1.980	3.000	1.350	1.800	1.350	2.180	0	0	6.750	8.67
Rubber & Leather		1.350	4.200									2.850	3.66
Textiles		1.350	2.400									1.050	1.35
Yard Waste		1.350	7.500									6.150	7.90
Wood		0	580	0	2.680							3.260	4.19
Other Org. Waste		2.420	11.000									8.580	11.02
Organic Waste Total		14.190	57.460	3.330	11.680	1.350	4.100	1.350	2.180	0	0	55.200	70.91
In-organic Waste													
Glass	Broken Glass	0	400									400	0.51
	Bottle	1.350	6.500									5.150	6.62
	Subtotal	1.350	6.900	0	0	0	0	0	0	0	0	5.550	7.13
Tin Cans (Steel Cans)		1.350	3.500									2.150	2.76
Aluminum cans		1.350	2.100									750	0.96
Other Metals		0	120									120	0.15
Dirt. Ash. Sand		2.420	16.500									14.080	18.09
In-orrganic Waste Total		6.470	29.120	0	0	0	0	0	0	0	0	22.650	29.09
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		20.660	86.580	3.330	11.680	1.350	4.100	1.350	2.180	0	0	77.850	100.00
Total Waste Volume (lit.) :													560
Bulk Density (kg/lit.) :													0.139

Record Sheets (Male Municipality) (Sheet No. 30 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 30 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (D)	B-1	Commercial Area (General)	D	Fruits Market & Parks	O	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	21.600	2.420	26.000	1.350	29.000	1.350	14.000	1.350	24.000	106.780	56.05
Paper	Paper	1.980	8.000	1.350	5.100	1.350	3.800	1.350	4.900			15.770	8.28
	Cardboard	0	2.400	0	3.880	0	2.500	0	3.200			11.980	6.29
	Subtotal	1.980	10.400	1.350	8.980	1.350	6.300	1.350	8.100	0	0	27.750	14.57
Plastics	Film	1.350	5.200	1.350	3.700	1.350	4.000					8.850	4.65
	Bottle & Others	2.320	3.700									1.380	0.72
	PET	1.350	2.100									750	0.39
	Subtotal	5.020	11.000	1.350	3.700	1.350	4.000	0	0	0	0	10.980	5.76
Rubber & Leather		0	600									600	0.31
Textiles		1.350	3.220									1.870	0.98
Yard Waste		1.350	6.000									4.650	2.44
Wood		0	3.240	0	1.900	1.350	4.100					7.890	4.14
Other Org. Waste		1.350	11.000									9.650	5.07
Organic Waste Total		12.400	67.060	5.120	40.580	5.400	43.400	2.700	22.100	1.350	24.000	170.170	89.33
In-organic Waste													
Glass	Broken Glass	0	0									0	0.00
	Bottle	1.350	3.400									2.050	1.08
	Subtotal	1.350	3.400	0	0	0	0	0	0	0	0	2.050	1.08
Tin Cans (Steel Cans)		2.320	9.000	1.350	2.000							7.330	3.85
Aluminum cans		1.350	2.800	1.350	1.600							1.700	0.89
Other Metals		0	400									400	0.21
Dirt, Ash, Sand		1.350	10.000									8.650	4.54
In-orrganic Waste Total		6.370	25.600	2.700	3.600	0	0	0	0	0	0	20.130	10.57
Hazardous Waste													
Hazardous Waste (Batteries)		0	200									200	0.10
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	200	0	0	0	0	0	0	0	0	200	0.10
Total Weight (kg) :		18.770	92.860	7.820	44.180	5.400	43.400	2.700	22.100	1.350	24.000	190.500	100.00
Total Waste Volume (lit.) :													720
Bulk Density (kg/lit.) :													0.265

Result of Waste Composition Survey in Male'

Hotels & Restaurants

(unit : grams)

Sample No.			31	32	33	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date, 1998			29 Aug.	30 Aug.	1 Sep.					
Organic Waste										
	Food Waste		86,350	174,630	374,630	374,630	211,870	86,350	635,610	82.98
	Paper	Paper	4,680	3,820	3,520	4,680	4,007	3,520	12,020	1.57
		Cardboard	6,860	7,020	16,650	16,650	10,177	6,860	30,530	3.99
		Subtotal	11,540	10,840	20,170	20,170	14,183	10,840	42,550	5.55
	Plastics	Film	9,050	2,450	4,680	9,050	5,393	2,450	16,180	2.11
		Bottle & Others	3,250	950	2,630	3,250	2,277	950	6,830	0.89
		PET	1,150	290	1,030	1,150	823	290	2,470	0.32
		Subtotal	13,450	3,690	8,340	13,450	8,493	3,690	25,480	3.33
	Rubber & Leather		0	0	0	0	0	0	0	0.00
	Textiles		1,020	1,640	1,240	1,640	1,300	1,020	3,900	0.51
	Yard Waste		450	0	2,610	2,610	1,020	0	3,060	0.40
	Wood		0	0	2,500	2,500	833	0	2,500	0.33
	Other Org. Waste		0	0	2,500	2,500	833	0	2,500	0.33
Organic Waste Total			112,810	190,800	411,990	411,990	238,533	112,810	715,600	93.42
In-organic Waste										
	Glass	Broken Glass	1,500	400	1,490	1,500	1,130	400	3,390	0.44
		Bottle	5,150	1,780	6,150	6,150	4,360	1,780	13,080	1.71
		Subtotal	6,650	2,180	7,640	7,640	5,490	2,180	16,470	2.15
	Tin Cans (Steel Cans)		7,800	6,680	7,830	7,830	7,437	6,680	22,310	2.91
	Aluminum cans		930	250	1,230	1,230	803	250	2,410	0.31
	Other Metals		6,630	0	1,950	6,680	2,877	0	8,630	1.13
	Dirt, Ash, Sand		0	0	0	0	0	0	0	0.00
In-orrganic Waste Total			22,060	9,110	18,650	22,060	16,607	9,110	49,820	6.50
Hazardous Waste										
	Hazardous Waste (Batteries)		0	0	380	380	127	0	380	0.05
	Other Hazardous Waste		0	0	220	220	73	0	220	0.03
Hazardous Waste Total			0	0	600	600	200	0	600	0.08
Total Weight (kg)			134,870	199,910	431,240	431,240	255,340	134,870	766,020	100.00
Total Waste Volume (lit.)			560	560	960	960	693	560	2,080	
Bulk Density (kg/lit.)			0.241	0.357	0.449	0.449	0.349	0.241	0.368	

Record Sheets (Male Municipality) (Sheet No. 31 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 29 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (E)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		2,420	28,500	1,350	24,500	1,350	27,000	25,230	36,700			86,350	64.02
Paper	Paper	1,350	2,860	1,350	4,520							4,680	3.47
	Cardboard	0	2,940	0	2,820	0	1,100					6,860	5.09
	Subtotal	1,350	5,800	1,350	7,340	0	1,100	0	0	0	0	11,540	8.56
Plastics	Film	1,350	6,500	1,350	2,700	1,350	3,900					9,050	6.71
	Bottle & Others	1,350	4,600									3,250	2.41
	PET	1,350	2,500									1,150	0.85
	Subtotal	4,050	13,600	1,350	2,700	1,350	3,900	0	0	0	0	13,450	9.97
Rubber & Leather			0									0	0.00
Textiles		0	1,020									1,020	0.76
Yard Waste		0	450									450	0.33
Wood		0	0									0	0.00
Other Org. Waste		0	0									0	0.00
Organic Waste Total		7,820	49,370	4,050	34,540	2,700	32,000	25,230	36,700	0	0	112,810	83.64
In-organic Waste													
Glass	Broken Glass	0	1,500									1,500	1.11
	Bottle	1,350	6,500									5,150	3.82
	Subtotal	1,350	8,000	0	0	0	0	0	0	0	0	6,650	4.93
Tin Cans (Steel Cans)		1,350	5,000	1,350	5,000	0	500					7,800	5.78
Aluminum cans		1,350	2,280									930	0.69
Other Metals		0	1,700	0	4,980							6,680	4.95
Dirt, Ash, Sand		0	0									0	0.00
In-orrganic Waste Total		4,050	16,980	1,350	9,980	0	500	0	0	0	0	22,060	16.36
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		11,870	66,350	5,400	44,520	2,700	32,500	25,230	36,700	0	0	134,870	100.00
Total Waste Volume (lit.) :													560
Bulk Density (kg/lit.) :													0.241

Record Sheets (Male Municipality) (Sheet No. 32 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 30 August	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (E)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		14,870	189,500									174,630	87.35
Paper	Paper	1,350	2,000	1,350	4,520							3,820	1.91
	Cardboard	0	2,840	0	2,300	0	940	0	940			7,020	3.51
	Subtotal	1,350	4,840	1,350	6,820	0	940	0	940	0	0	10,840	5.42
Plastics	Film	1,350	3,400	0	400							2,450	1.23
	Bottle & Others	1,350	2,300									950	0.48
	PET	1,350	1,640									290	0.15
	Subtotal	4,050	7,340	0	400	0	0	0	0	0	0	3,690	1.85
Rubber & Leather			0									0	0.00
Textiles		0	1,140	0	500							1,640	0.82
Yard Waste		0	0									0	0.00
Wood		0	0									0	0.00
Other Org. Waste		0	0									0	0.00
Organic Waste Total		20,270	202,820	1,350	7,720	0	940	0	940	0	0	190,800	95.44
In-organic Waste													
Glass	Broken Glass	0	400									400	0.20
	Bottle	0	1,780									1,780	0.89
	Subtotal	0	2,180	0	0	0	0	0	0	0	0	2,180	1.09
Tin Cans (Steel Cans)		2,320	9,000									6,680	3.34
Aluminum cans		1,350	1,600									250	0.13
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		0	0									0	0.00
In-orrganic Waste Total		3,670	12,780	0	0	0	0	0	0	0	0	9,110	4.56
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		23,940	215,600	1,350	7,720	0	940	0	940	0	0	199,910	100.00
Total Waste Volume (lit.) :													560
Bulk Density (kg/lit.) :													0.357

Record Sheets (Male Municipality) (Sheet No. 33 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 1 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (E)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Cloudy	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	2.000	1.350	12.500	20.170	383.000					374.630	86.87
Paper	Paper	1.980	5.500									3.520	0.82
	Cardboard	1.350	6.000	0	7.000	0	5.000					16.650	3.86
	Subtotal	3.330	11.500	0	7.000	0	5.000	0	0	0	0	20.170	4.68
Plastics	Film	1.350	4.100	1.350	3.280							4.680	1.09
	Bottle & Others	1.350	3.980									2.630	0.61
	PET	1.350	2.380									1.030	0.24
	Subtotal	4.050	10.460	1.350	3.280	0	0	0	0	0	0	8.340	1.93
Rubber & Leather			0									0	0.00
Textiles		0	1.240									1.240	0.29
Yard Waste		1.350	3.960									2.610	0.61
Wood		0	2.500									2.500	0.58
Other Org. Waste		1.350	3.850									2.500	0.58
Organic Waste Total		11.430	35.510	2.700	22.780	20.170	388.000	0	0	0	0	411.990	95.54
In-organic Waste													
Glass	Broken Glass	1.350	2.840									1.490	0.35
	Bottle	1.350	7.500									6.150	1.43
	Subtotal	2.700	10.340	0	0	0	0	0	0	0	0	7.640	1.77
Tin Cans (Steel Cans)		2.320	7.500	1.350	4.000							7.830	1.82
Aluminum cans		1.350	2.580									1.230	0.29
Other Metals		0	1.950									1.950	0.45
Dirt, Ash, Sand		0	0									0	0.00
In-orrganic Waste Total		6.370	22.370	1.350	4.000	0	0	0	0	0	0	18.650	4.32
Hazardous Waste													
Hazardous Waste (Batteries)		0	380									380	0.09
Other Hazardous Waste		0	220									220	0.05
Hazardous Waste Total		0	600	0	0	0	0	0	0	0	0	600	0.14
Total Weight (kg) :		17.800	58.480	4.050	26.780	20.170	388.000	0	0	0	0	431.240	100.00
Total Waste Volume (lit.) :													960
Bulk Density (kg/lit.) :													0.449

Result of Waste Composition Survey in Male'

School

(unit : grams)

Sample No.			31	32	33	Max.	Avg.	Min.	Total	Ratio (%)
Sampling Date, 1998			29 Aug.	30 Aug.	1 Sep.					
Organic Waste										
	Food Waste		10,650	6,790	7,150	10,650	8,197	6,790	24,590	20.40
	Paper	Paper	6,040	6,940	6,190	6,940	6,390	6,040	19,170	15.91
		Cardboard	6,440	5,260	6,270	6,440	5,990	5,260	17,970	14.91
		Subtotal	12,480	12,200	12,460	12,480	12,380	12,200	37,140	30.82
	Plastics	Film	1,350	2,500	1,750	2,500	1,867	1,350	5,600	4.65
		Bottle & Others	450	1,850	450	1,850	917	450	2,750	2.28
		PET	200	400	300	400	300	200	900	0.75
		Subtotal	2,000	4,750	2,500	4,750	3,083	2,000	9,250	7.68
	Rubber & Leather		0	0	0	0	0	0	0	0.00
	Textiles		0	1,640	0	1,640	547	0	1,640	1.36
	Yard Waste		3,420	4,140	2,750	4,140	3,437	2,750	10,310	8.55
	Wood		900	1,120	700	1,120	907	700	2,720	2.26
	Other Org. Waste		2,200	4,300	2,550	4,300	3,017	2,200	9,050	7.51
Organic Waste Total			31,650	34,940	28,110	34,940	31,567	28,110	94,700	78.58
In-organic Waste										
	Glass	Broken Glass	650	150	550	650	450	150	1,350	1.12
		Bottle	350	500	1,300	1,300	717	350	2,150	1.78
		Subtotal	1,000	650	1,850	1,850	1,167	650	3,500	2.90
	Tin Cans (Steel Cans)		4,150	530	5,300	5,300	3,327	530	9,980	8.28
	Aluminum cans		2,050	300	1,550	2,050	1,300	300	3,900	3.24
	Other Metals		500	0	1,950	1,950	817	0	2,450	2.03
	Dirt, Ash, Sand		450	2,050	3,250	3,250	1,917	450	5,750	4.77
In-orrganic Waste Total			8,150	3,530	13,900	13,900	8,527	3,530	25,580	21.22
Hazardous Waste										
	Hazardous Waste (Batteries)		150	0	90	150	80	0	240	0.20
	Other Hazardous Waste		0	0	0	0	0	0	0	0.00
Hazardous Waste Total			150	0	90	150	80	0	240	0.20
Total Weight (kg)			39,950	38,470	42,100	42,100	40,173	38,470	120,520	100.00
Total Waste Volume (lit.)			280	260	320	320	287	260	860	
Bulk Density (kg/lit.)			0.143	0.148	0.132	0.148	0.141	0.132	0.140	

Record Sheets (Male Municipality) (Sheet No. 34 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 22 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (G)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Cloudy	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.350	12.000									10.650	26.66
Paper	Paper	1.980	4.900	1.980	5.100							6.040	15.12
	Cardboard	1.980	5.500	1.980	4.900							6.440	16.12
	Subtotal	3.960	10.400	3.960	10.000							12.480	31.24
Plastics	Film	1.350	2.100	1.350	1.950							1.350	3.38
	Bottle & Others	1.350	1.800									450	1.13
	PET	1.350	1.550									200	0.50
	Subtotal	4.050	5.450	1.350	1.950							2.000	5.01
Rubber & Leather												0	0.00
Textiles												0	0.00
Yard Waste		1.980	5.400									3.420	8.56
Wood		0	900									900	2.25
Other Org. Waste		1.350	3.550									2.200	5.51
Organic Waste Total		12.690	37.700	5.310	11.950							31.650	79.22
In-organic Waste													
Glass	Broken Glass	1.350	2.000									650	1.63
	Bottle	1.350	1.700									350	0.88
	Subtotal	2.700	3.700	0	0							1.000	2.50
Tin Cans (Steel Cans)		1.350	5.500									4.150	10.39
Aluminum cans		1.350	3.400									2.050	5.13
Other Metals		0	500									500	1.25
Dirt, Ash, Sand		1.350	1.800									450	1.13
In-orrganic Waste Total		6.750	14.900	0	0							8.150	20.40
Hazardous Waste													
Hazardous Waste (Batteries)		0	150									150	0.38
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	150	0	0							150	0.38
Total Weight (kg) :		19.440	52.750	5.310	11.950							39.950	100.00
Total Waste Volume (lit.) :													280
Bulk Density (kg/lit.) :													0.143

Record Sheets (Male Municipality) (Sheet No. 35 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 22 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (G)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Fine	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1.980	7.500	1.980	3.250							6.790	17.65
Paper	Paper	1.980	6.400	1.980	4.500							6.940	18.04
	Cardboard	1.980	3.350	0	1.700	0	1.250	0	940			5.260	13.67
	Subtotal	3.960	9.750	1.980	6.200	0	1.250	0	940	0	0	12.200	31.71
Plastics	Film	1.350	3.220	1.350	1.980							2.500	6.50
	Bottle & Others	1.350	3.200									1.850	4.81
	PET	1.350	1.750									400	1.04
	Subtotal	4.050	8.170	1.350	1.980	0	0	0	0	0	0	4.750	12.35
Rubber & Leather			0									0	0.00
Textiles		0	1.140	0	500							1.640	4.26
Yard Waste		1.980	6.120									4.140	10.76
Wood		0	1.120									1.120	2.91
Other Org. Waste		1.350	5.650									4.300	11.18
Organic Waste Total		13.320	39.450	5.310	11.930	0	1.250	0	940	0	0	34.940	90.82
In-organic Waste													
Glass	Broken Glass	0	150									150	0.39
	Bottle	0	500									500	1.30
	Subtotal	0	650	0	0	0	0	0	0	0	0	650	1.69
Tin Cans (Steel Cans)		1.350	1.880									530	1.38
Aluminum cans		1.350	1.650									300	0.78
Other Metals		0	0									0	0.00
Dirt, Ash, Sand		1.350	3.400									2.050	5.33
In-organic Waste Total		4.050	7.580	0	0	0	0	0	0	0	0	3.530	9.18
Hazardous Waste													
Hazardous Waste (Batteries)		0	0									0	0.00
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	0	0	0	0	0	0	0	0	0	0	0.00
Total Weight (kg) :		17.370	47.030	5.310	11.930	0	1.250	0	940	0	0	38.470	100.00
Total Waste Volume (lit.) :													260
Bulk Density (kg/lit.) :													0.148

Record Sheets (Male Municipality) (Sheet No. 36 / 39)

		Code	Generation Sources	Code	Generation Sources	Code	Generation Source
Survey Date	: 22 September	A	Residential Area	C-2	Building (Office & Shops)	F-3	Home Industry (Others)
Generation Source	: (G)	B-1	Commercial Area (General)	D	Fruits Market & Parks	G	School
Weather	: Cloudy	C-1	Buildings (Govt. Office)	E	Restaurant & Hotels	I-3	Const. Waste (Mixed)
Name of Surveyor	: Mr. Ameen						

Type of Waste		Container Weight 1	Gross Weight 1	Container Weight 2	Gross Weight 2	Container Weight 3	Gross Weight 3	Container Weight 4	Gross Weight 4	Container Weight 5	Gross Weight 5	Net Weight (g)	Ratio(%)
Organic Waste													
Food Waste		1,350	8,500									7,150	16.98
Paper	Paper	1,980	4,750	1,980	5,400							6,190	14.70
	Cardboard	1,980	5,050	0	3,200							6,270	14.89
	Subtotal	3,960	9,800	1,980	8,600							12,460	29.60
Plastics	Film	1,350	2,500	1,350	1,950							1,750	4.16
	Bottle & Others	1,350	1,800									450	1.07
	PET	1,350	1,650									300	0.71
	Subtotal	4,050	5,950	1,350	1,950							2,500	5.94
Rubber & Leather												0	0.00
Textiles												0	0.00
Yard Waste		1,350	4,100									2,750	6.53
Wood		0	700									700	1.66
Other Org. Waste		1,350	3,900									2,550	6.06
Organic Waste Total		12,060	32,950	3,330	10,550							28,110	66.77
In-organic Waste													
Glass	Broken Glass	0	550									550	1.31
	Bottle	0	1,300									1,300	3.09
	Subtotal	0	1,850	0	0							1,850	4.39
Tin Cans (Steel Cans)		1,350	4,000	1,350	4,000							5,300	12.59
Aluminum cans		1,350	2,900									1,550	3.68
Other Metals		0	1,950									1,950	4.63
Dirt, Ash, Sand		1,350	4,600							0		3,250	7.72
In-orrganic Waste Total		4,050	15,300	1,350	4,000							13,900	33.02
Hazardous Waste													
Hazardous Waste (Batteries)		0	90									90	0.21
Other Hazardous Waste		0	0									0	0.00
Hazardous Waste Total		0	90	0	0	0	0	0	0	0	0	90	0.21
Total Weight (kg) :		16,110	48,340	4,680	14,550	0	0	0	0	0	0	42,100	100.00
Total Waste Volume (lit.) :													320
Bulk Density (kg/lit.) :													0.132