

**Status of Water Supply, Sanitation and Solid Waste Management in Urban India**

**Statistical Volume III**

**Solid Waste Management  
1999**

**National Institute of Urban Affairs**

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## List of Abbreviations

### Civic Status

CMC	City Municipal Council
CT	Census Town
M	Municipality
M.Corp.	Municipal Corporation
MB	Municipal Board
MC	Municipal Committee, Municipal Corporation
MCI	Municipal Council
NM	Non-municipal
NMCT	Non-municipal Census Town
NTAC	Notified Town Area Committee
TC	Town Committee

### Others

ltrs.	litres
kl.	kilolitre (1000 litres)
lpcd	litres per capita per day
mld	million litres daily
mld	metre
km.	kilometre
sq.km.	square kilometre
n.a.	not available
n.r.	not reliable
lakh	100,000
crore	10,000,000

## List of Sampled Cities and Towns

### Metropolitan Cities

	<b>Towns</b>	<b>State</b>
1	Ahmedabad M.Corp.	Gujarat
2	Bangalore M.Corp.	Karnataka
3	Bhopal M.Corp.	Madhya Pradesh
4	Calcutta M.Corp.	Calcutta
5	Chennai M.Corp.	Tamil Nadu
6	Coimbatore M.Corp.	Tamil Nadu
7	Delhi M.Corp.	Delhi
8	Greater Mumbai M.Corp.	Maharashtra
9	Hyderabad M.Corp.	Andhra Pradesh
10	Indore M.Corp.	Madhya Pradesh
11	Jaipur M.Corp.	Rajasthan
12	Kanpur M.Corp.	Uttar Pradesh
13	Kochi M.Corp.	Kerala
14	Lucknow M.Corp.	Uttar Pradesh
15	Ludhiana M.Corp.	Punjab
16	Madurai M.Corp.	Tamil Nadu
17	Nagpur M.Corp.	Maharashtra
18	Pune M.Corp.	Maharashtra
19	Surat M.Corp.	Gujarat
20	Vadodara M.Corp.	Gujarat
21	Varanasi M.Corp.	Uttar Pradesh
22	Visakhapatnam M.Corp.	Andhra Pradesh

**Andhra Pradesh**

<b>Class I</b>		<b>Class II</b>	
1	Anantapur MCI	1	Anakapalle M
2	Chittoor M	2	Dharmavaram M
3	Cuddapah MCI	3	Gudur MCI
4	Eluru M	4	Kapra M
5	Guntur MCI	5	Kavali MCI
6	Hindupur M	6	Madanapalle M
7	Kakinada M	7	Narasaraopet M
8	Kurnool MCI	8	Rajendra nagar MCI
9	Machilipatnam M	9	Sangareddy MCI
10	Nandyal MCI	10	Srikakulam MCI
11	Nellore MCI	11	Srikalahasti M
12	Nizamabad M	12	Suryapet MCI
13	Ongole MCI		
14	Qutubullapur M		
15	Rajahmundry M.Corp.		
16	Tenali M		
17	Tirupati MCI		
18	Vijaywada M.Corp.		
19	Warangal M.Corp.		

**Bihar**

<b>Class I</b>		<b>Class II</b>	
1	Bihar Sharif M	7	Buxar M
2	Chhapra M	8	Deoghar M
3	Gaya M.Corp.	9	Hajipur M
4	Katihar M	10	Hazaribagh M
5	Munger M	11	Jehanabad M
6	Ranchi M.Corp.	12	Madhubani M
		13	Mokama M

**Gujarat**

<b>Class I</b>		<b>Class II</b>	
1	Anand M	12	Amreli M
2	Bharuch M	13	Ankleswar M
3	Bhavnagar M.Corp.	14	Dabhoi M
4	Bhuj M	15	Dohad M
5	Jamnagar M.Corp.	16	Gondal M
6	Junagadh M	17	Jetpur M
7	Nadiad M	18	Mahesana M
8	Navsari M	19	Palanpur M
9	Porbandar M		
10	Rajkot M.Corp.		
11	Surendranagar M		

**Haryana**

<b>Class I</b>		<b>Class II</b>	
1	Ambala MCI	7	Jind MCI
2	Faridabad M.Corp.	8	Kaithal MCI
3	Gurgaon MCI	9	Rewari MCI
4	Hisar MCI	10	Thanesar MCI
5	Karnal MCI		
6	Rohtak MCI		

**Jammu & Kashmir**

<b>Class I</b>	
1	Jammu M.Corp.
2	Srinagar M.Corp.

**Karnataka**

<b>Class I</b>		<b>Class II</b>	
1	Belgaum M.Corp.	12	Bagalkot CMC
2	Bellary CMC	13	Chikmagalur CMC
3	Davangere MCI	14	Gokak CMC
4	Gadag-Betigeri CMC	15	Hospet CMC
5	Gulbarga M.Corp.	16	Kolar CMC
6	Hubli-Dharwar M.Corp.	17	Rabkavi-Banhatti CMC
7	Mandya M	18	Ramanagaram CMC
8	Mangalore M.Corp.		
9	Mysore M.Corp.		
10	Shimoga CMC		
11	Tumkur M		

**Kerala**

<b>Class I</b>		<b>Class II</b>	
55	Alappuzha MC	39	Changanessary MC
56	Kollam MC	40	Payyanur M
57	Kozhikode M.Corp.	41	Taliparamba M
58	Thalaserry M	42	Thrissur MC
59	Thiruvananthapuram M.Corp.		

**Madhya Pradesh**

<b>Class I</b>		<b>Class II</b>	
1	Bhind M	14	Hoshangabad M
2	Burhanpur M.Corp.	15	Itarsi M
3	Dewas M.Corp.	16	Khargone M
4	Guna M	17	Mandsaur M
5	Gwalior M.Corp.	18	Nagda M
6	Jabalpur M.Corp.	19	Neemuch M
7	Khandwa M	20	Sehore M
8	Morena M	21	Shahdol M
9	Murwara (Katni) M.Corp.	22	Vidisha M
10	Ratlam M.Corp.		
11	Rewa M.Corp.		
12	Satna M.Corp.		
13	Shivpuri M		

**Maharashtra**

<b>Class I</b>		<b>Class II</b>	
1	Amravati M.Corp.	15	Amalner MCI
2	Aurangabad M.Corp.	16	Ballapur MCI
3	Bhusawal MCI	17	Bhandara M
4	Chandrapur MCI	18	Kamptee MCI
5	Dhule MCI	19	Manmad MCI
6	Ichalkaranji MCI	20	Ratnagiri MCI
7	Jalgaon MCI	21	Satara MCI
8	Kolhapur M.Corp.	22	Virar MCI
9	Nanded Waghala M.Corp.		
10	Nashik M.Corp.		
11	Parbhani MCI		
12	Solapur M.Corp.		
13	Wardha M		
14	Yavatmal MCI		

**Orissa**

<b>Class I</b>		<b>Class II</b>	
1	Bhubaneswar M.Corp.	6	Balangir M
2	Cuttack M.Corp.	7	Bhadrak M
3	Puri M		
4	Rourkela M		
5	Sambalpur M		

**Punjab**

<b>Class I</b>		<b>Class II</b>	
1	Amritsar M.Corp.	8	Firozpur MCI
2	Bathinda MCI	9	Kapurthala M
3	Hoshiarpur MCI	10	Mansa MCI
4	Jalandhar M.Corp.	11	Phagwara MCI
5	Moga MCI	12	Sangrur MCI
6	Pathankot MCI		
7	Patiala M.Corp.		

**Rajasthan**

<b>Class I</b>		<b>Class II</b>	
1	Ajmer MCI	9	Banswara M
2	Alwar M	10	Barmer M
3	Beawar M	11	Bundi M
4	Bhilwara M	12	Churu M
5	Bikaner M	13	Hanumangarh M
6	Jodhpur M.Corp.	14	Sawai Madhopur M
7	Kota M.Corp.		
8	Sriganganagar M		

**Tamil Nadu**

<b>Class I</b>		<b>Class II</b>	
1	Cuddalore M	16	Ambur M
2	Dindigul M	17	Arakkonam M
3	Erode M	18	Attur M
4	Kanchipuram M	19	Cumbum M
5	Kumbakonam M	20	Dharmapuri M
6	Nagercoil M	21	Guduivattam M
7	Rajapalayam M	22	Nagapattinam M
8	Salem M.Corp.	23	Pudukkottai M
9	Thanjavur M	24	Sivakasi M
10	Tiruchirapalli M.Corp.	25	Srivilliputtur M
11	Tirunelveli M.Corp.	26	Tindivanam MC
12	Tirunvannamalai M	27	Udhagamandalam M
13	Tiruppur M		
14	Tuticorin M		
15	Vellore M		

**Uttar Pradesh**

<b>Class I</b>		<b>Class II</b>	
1	Agra M.Corp.	24	Auraiya MB
2	Aligarh M.Corp.	25	Balrampur MB
3	Allahabad M.Corp.	26	Basti MB
4	Bareilly M.Corp.	27	Bhadohi MB
5	Etawah MB	28	Chandpur MB
6	Faizabad MB	29	Etah MB
7	Firozabad MB	30	Ghazipur MB
8	Ghaziabad M.Corp.	31	Gonda MB
9	Gorakhpur M.Corp.	32	Lakhimpur MB
10	Haldwani-cum-Kathgodam MB	33	Lalitpur MB
11	Hapur MB	34	Mughalsarai MB
12	Hardwar MB	35	Nawabganj-Barabanki MB
13	Jhansi MB	36	Orai MB
14	Mathura MB	37	Roorkee MB
15	Meerut M.Corp.		
16	Mirzapur MB		
17	Moradabad M.Corp.		
18	Muzaffarnagar MB		
19	Rae Bareli MB		
20	Rampur MB		
21	Saharanpur MB		
22	Sitapur MB		
23	Unnao MB		

**West Bengal**

<b>Class I</b>		<b>Class II</b>	
1	Asansol M.Corp.	13	Bishnupur M
2	Baharampur M	14	Chakdaha M
3	Balurghat M	15	Contai M
4	Bankura M	16	Cooch Behar M
5	Barasat M	17	Darjeeling M
6	Burdwan M	18	Jalpaiguri M
7	Halisahar M	19	Jangipur M
8	Krishnagar M	20	Katwa M
9	Midnapore M	21	Raniganj M
10	North Barrackpore M		
11	Santipur M		
12	Silliguri M.Corp.		

**Small States and Union Territories**

<b>Class I</b>		<b>Class II</b>	
<b>Assam</b>		<b>Himachal Pradesh</b>	
1	Guwahati M.Corp.	1	Shimla M.Corp.
2	Jorhat MB	<b>Nagaland</b>	
<b>Manipur</b>		1	Kohima TC
1	Imphal MCI	<b>Union Territories</b>	
<b>Meghalaya</b>		1	Port Blair MCI
1	Shillong MB		
<b>Mizoram</b>			
1	Aizwal NM		
<b>Tripura</b>			
1	Agartala MCI		
<b>Union Territories</b>			
<b>Chandigarh</b>			
1	Chandigarh M.Corp.		
<b>Pondicherry</b>			
2	Pondicherry M		
<b>Other Classes</b>			
<b>States</b>			
<b>Arunachal Pradesh</b>			
1	Itanagar CT	<b>Union Territories</b>	
		<b>Daman and Diu</b>	
		1	Daman MCI
		<b>Lakshadweep Islands</b>	
1	Panaji MCI	1	Kavarathi NMCT
<b>Sikkim</b>			
1	Gangtok	<b>Dadra and Nagar Haveli</b>	
		1	Silvassa

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## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
<b>Metropolitan Cities</b>									
1	Ahmedabad M.Corp.	2,877	3,500	100	186.78	190.84	100	1,179,000	1,435,000
2	Bangalore M.Corp.	2,660	5,000	100	125.90	227.00	100	399,013	750,000
3	Bhopal M.Corp.	1,063	1,500	100	284.09	284.09	100	n.a.	230,512
4	Calcutta M.Corp.	4,400	4,870	100	187.33	187.33	100	2,000,000	2,290,000
5	Chennai M.Corp.	3,841	4,363	100	174.00	174.00	100	n.a.	1,500,000
6	Coimbatore M.Corp.	816	971	100	105.60	105.60	100	n.a.	n.a.
7	Delhi M.Corp.	7,207	12,000	63	1399.26	1484.46	n.a.	1,300,000	3,000,000
8	Greater Mumbai M.Corp.	9,926	11,100	100	437.71	437.71	100	4,459,000	5,823,510
9	Hyderabad M.Corp.	2,965	4,163	100	172.68	172.68	100	n.a.	601,336
10	Indore M.Corp.	1,092	1,600	75	137.17	137.17	75	264,000	300,000
11	Jaipur M.Corp.	1,458	2,000	100	200.40	200.40	100	214,000	433,000
12	Kanpur M.Corp.	1,874	2,500	86	106.00	227.67	n.a.	200,000	500,000
13	Kochi M.Corp.	565	680	100	94.88	94.88	100	52,090	69,500
14	Lucknow M.Corp.	1,619	2,500	70	310.10	310.00	90	120,000	200,000
15	Ludhiana M.Corp.	1,043	2,000	40**	134.67	165.00	40	350,000	700,000
16	Madurai M.Corp.	941	1,020	100	46.99	51.96	100	195,266	310,000
17	Nagpur M.Corp.	1,625	2,100	100	217.17	217.56	100	650,000	890,000
18	Pune M.Corp.	1,567	2,300	100	146.11	416.11	100	628,000	879,200
19	Surat M.Corp.	1,499	2,300	100	111.16	111.16	100	450,000	750,000
20	Vadodara M.Corp.	1,031	1,400	100	108.26	108.26	100	185,000	250,000
21	Varanasi M.Corp.	929	1,152	81	73.89	73.89	81	160,854	265,027
22	Visakhapatnam M.Corp.	752	1,280	100	78.33	107.00	100	n.a.	265,000
<b>Total-Metropolitan Cities</b>		<b>51,749</b>	<b>70,299</b>	<b>90</b>	<b>4838.48</b>	<b>5484.77</b>			
* Estimated by respective local governments / relevant agencies      ** Remaining population of Ludhiana is covered by CBOs									
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.									

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
<b>Class I</b>									
<b>Andhra Pradesh</b>									
1	Anantapur MCI	175	250	100	16.35	16.35	100	55,000	70,000
2	Chittoor M	133	149	100	33.57	33.57	100	40,907	41,928
3	Cuddapah MCI	121	166	100	7.50	7.50	100	25,023	29,364
4	Eluru M	213	247	100	14.55	14.55	100	62,000	78,000
5	Guntur MCI	471	557	100	30.01	45.79	100	n.a.	157,015
6	Hindupur M	105	140	100	38.16	38.16	100	n.a.	41,203
7	Kakinada M	280	325	85	30.51	30.51	85	62,230	91,940
8	Kurnool MCI	237	282	100	15.01	15.01	100	83,634	93,624
9	Machilipatnam M	159	200	100	26.67	26.67	100	n.a.	13,600
10	Nandyal MCI	120	150	100	15.42	15.42	100	30,292	38,362
11	Nellore MCI	317	404	100	48.39	48.39	100	93,900	119,000
12	Nizamabad M	241	285	100	36.86	36.86	100	n.a.	109,144
13	Ongole MCI	101	180	100	8.24	8.24	100	24,034	27,232
14	Qutubullapur M	107	250	100	46.87	46.87	100	n.a.	67,489
15	Rajahmundry M.Corp.	325	380	100	38.90	44.50	100	52,000	78,000
16	Tenali M	144	170	100	15.11	15.11	100	n.a.	42,592
17	Tirupati MCI	174	210	100	16.07	24.00	100	44,680	54,000
18	Vijaywada M.Corp.	702	837	100	57.33	57.33	100	240,000	300,000
19	Warangal M.Corp.	448	680	100	54.98	68.50	100	36,492	40,684
<b>Bihar</b>									
20	Bihar Sharif M	201	250	100	23.50	23.50	100	82,099	135,938
21	Chhapra M	137	200	95	16.96	16.96	n.a.	n.a.	n.a.
22	Gaya M.Corp.	292	400	100	28.62	28.62	100	42,169	n.a.
23	Katihar M	135	200	100	12.00	12.00	100	n.a.	n.a.
24	Munger M	150	210	67	17.50	19.00	84	n.a.	n.a.
25	Ranchi M.Corp.	599	700	85	177.19	177.19	85	n.a.	n.a.
<b>Gujarat</b>									
26	Anand M	110	175	100	21.13	23.14	100	32,000	40,000
27	Bharuch M	133	159	100	18.43	19.93	100	10,000	15,000
28	Bhavnagar M.Corp.	402	550	100	90.16	n.a.	n.a.	48,397	50,935

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
29	Bhuj M	102	118	100	9.48	9.49	100	15,000	20,000
30	Jamnagar M.Corp.	342	500	100	26.40	26.40	100	90,214	101,824
31	Junagadh M	130	165	100	13.47	n.a.	n.a.	n.a.	n.a.
32	Nadiad M	167	300	100	28.48	28.48	100	25,000	40,000
33	Navsari M	126	139	100	8.52	8.55	100	25,000	30,000
34	Porbandar M	117	142	100	12.30	12.30	100	8,100	9,500
35	Rajkot M.Corp.	559	1,000	100	69.00	104.86	100	90,000	125,000
36	Surendranagar M	106	150	100	14.19	36.87	100	10,082	n.a.
	<b>Haryana</b>								
37	Ambala MCI	119	141	85	16.94	16.94	85	11,720	18,550
38	Faridabad M.Corp.	618	1,150	100	178.00	208.00	100	130,000	150,000
39	Gurgaon MCI	121	175	85	15.33	16.57	85	31,390	37,863
40	Hissar MCI	173	250	75	45.42	45.42	100	42,525	52,100
41	Karnal MCI	174	220	72	22.10	22.10	60	41,300	46,000
42	Rohtak MCI	216	243	100	20.38	28.38	100	66,945	103,351
	<b>Jammu &amp; Kashmir</b>								
43	Jammu M.Corp.	716*	909	100	n.a.	130.36	n.a.	n.a.	n.a.
44	Srinagar M.Corp.		800	n.a.	n.a.	210.00	n.a.	n.a.	n.a.
	<b>Karnataka</b>								
45	Belgaum M.Corp.	326	470	100	83.93	n.a.	n.a.	100,000	120,000
46	Bellary CMC	245	297	100	65.90	81.95	100	61,990	95,000
47	Davangere MCI	266	455	99	20.51	n.a.	n.a.	72,000	140,392
48	Gadag-Betigeri CMC	134	148	100	34.75	n.a.	n.a.	7,285	9,276
49	Gulbarga M.Corp.	304	450	100	32.14	55.00	100	48,000	89,000
50	Hubli-Dharwad M.Corp.	648	850	100	190.94	190.94	100	102,000	270,000
51	Mandya M	120	140	100	17.03	17.03	100	n.a.	8,000
52	Mangalore M.Corp.	273	410	100	73.71	116.77	100	16,690	n.a.
53	Mysore M.Corp.	481	1,050	100	36.69	n.a.	n.a.	52,200	69,500
54	Shimoga CMC	179	222	100	16.26	n.a.	n.a.	8,000	42,000
55	Tumkur M	139	300	60	15.32	45.90	n.a.	10,000	22,800

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
	<b>Kerala</b>								
56	Alappuzha MC	175	200	100	46.77	46.77	100	42,170	53,000
57	Kollam MC	140	160	100	18.48	18.48	100	33,500	45,000
58	Kozhikode M.Corp.	420	493	100	82.68	84.23	100	71,300	73,000
59	Thalaserry M	104	134	100	23.96	n.a.	n.a.	10,000	11,200
60	Thiruvananthapuram M.Corp.	524	585	100	74.93	78.40	100	20,000	25,000
	<b>Madhya Pradesh</b>								
61	Bhind M	110	175	44	17.18	17.18	47	3,000	3,200
62	Burhanpur M.Corp.	173	210	100	24.00	24.00	100	n.a.	84,000
63	Dewas M.Corp.	164	200	100	100.22	100.22	100	n.a.	n.a.
64	Guna M	100	125	100	45.75	45.75	100	24,750	38,950
65	Gwalior M.Corp.	691	900	100	289.85	n.a.	n.a.	200,000	270,000
66	Jabalpur M.Corp.	742	1,000	100	133.97	133.97	100	n.a.	n.a.
67	Khandwa M	145	175	100	35.77	35.77	100	35,000	n.a.
68	Morena M	105*	125	100	12.00*	12.00	100	20,000	25,000
69	Murwara-Katni M.Corp.	163	180	100	107.10	107.10	100	n.a.	n.a.
70	Ratlam M.Corp.	183	235	85	39.19	39.19	85	62,000	70,000
71	Rewa M.Corp.	129	180	100	54.99	54.99	100	n.a.	n.a.
72	Satna M.Corp.	157	200	100	86.77	n.a.	n.a.	4,000	5,000
73	Shivpuri M	108	140	100	81.10	81.10	100	22,800	28,470
	<b>Maharashtra</b>								
74	Amravati M.Corp.	422	500	100	121.65	121.65	100	100,000	150,000
75	Aurangabad M.Corp.	573	868	100	138.50	138.50	100	170,000	270,000
76	Bhusawal M.Cl.	145	200	85	13.38	13.38	78	13,100	n.a.
77	Chandrapur MCl	226	295	100	56.28	56.28	100	n.a.	80,753
78	Dhule MCl	278	330	100	46.46	46.46	100	35,000	55,000
79	Ichalkaranji MCl	215	250	100	29.89	29.89	100	22,000	30,000
80	Jalgaon MCl	242	400	100	62.29	65.64	100	75,000	75,000
81	Kolhapur M.Corp.	406	502	100	66.82	66.82	100	41,970	68,395
82	Nanded Waghala M.Corp.	275	410	100	20.62	46.00	100	n.a.	71,190
83	Nashik M.Corp.	657	839	100	259.13	259.13	100	140,000	200,000

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
84	Parbhani MCI	190	233	100	n.a.	57.60	100	58,774	125,000
85	Solapur M.Corp.	604	900	100	33.11	n.a.	n.a.	n.a.	240,000
86	Wardha M	103	150	100	7.77	9.04	100	16,900	19,617
87	Yavatmal MCI	109	130	100	10.17	10.69	100	39,000	40,000
	<b>Orissa</b>								
88	Bhubaneswar M.Corp.	412	654	100	124.74	n.a.	n.a.	103,730	n.a.
89	Cuttack M.Corp.	403	563	100	121.91	121.91	n.a.	90,798	n.a.
90	Puri M	125	150	100	16.84	n.a.	n.a.	n.a.	n.a.
91	Rourkela M	140	200	100	33.00	n.a.	n.a.	n.a.	n.a.
92	Sambalpur M	131	157	100	46.48	n.a.	n.a.	n.a.	n.a.
	<b>Punjab</b>								
93	Amritsar M.Corp.	709	843	95	114.95	133.00	80	246,675	253,000
94	Bathinda MCI	159	174	40	97.00	99.00	n.a.	24,250	27,911
95	Hoshiarpur MCI	123	145	76	28.21	35.00	76	n.a.	28,000
96	Jalandhar M. Corp.	510	738	91	80.41	110.00	91	200,000	150,000
97	Moga MCI	108	148	80	16.10	18.50	81	13,835	18,447
98	Pathankot MCI	124	195	100	22.10	22.10	100	11,000	11,000
99	Patiala M.Corp.	238	328	100	31.20	41.00	100	80,000	70,000
	<b>Rajasthan</b>								
100	Ajmer MCI	403	550	100	241.58	n.a.	n.a.	111,897	150,000
101	Alwar M	205	300	90	48.40	58.15	90	20,000	25,000
102	Beawar M	105	141	100	17.69	17.69	100	n.a.	2,130
103	Bhilwara M	184	225	100	118.49	n.a.	n.a.	37,000	45,000
104	Bikaner M	416	600	100	165.75	175.76	100	14,400	24,500
105	Jodhpur M.Corp.	666	1,000	100	78.60	n.a.	n.a.	194,400	280,500
106	Kota M.Corp.	537	750	100	221.36	221.36	100	n.a.	n.a.
107	Sriganganagar M	161	225	100	20.87	20.87	100	8,500	11,000
	<b>Tamil Nadu</b>								
108	Cuddalore M	145	162	100	27.71	27.71	100	28,020	34,000
109	Dindigul M	182	214	100	14.01	14.01	100	21,680	27,000
110	Erode M	159	174	100	8.44	8.44	100	37,190	40,000

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
111	Kanchipuram M	145	157	100	11.60	11.60	100	n.a.	n.a.
112	Kumbakonam M	139	147	100	12.58	12.58	100	48,819	51,892
113	Nagercoil M	190	206	100	24.27	24.27	100	10,500	12,648
114	Rajapalaiyam M	114	123	100	11.36	11.36	100	15,770	17,000
115	Salem M.Corp.	367	447	100	19.94	19.94	100	62,000	125,300
116	Thanjavur M	202	217	100	15.36	n.a.	n.a.	38,040	41,000
117	Tiruchirapalli M.Corp.	669*	800	100	23.00	n.a.	n.a.	n.a.	167,162
118	Tirunelveli M.Corp.	374*	414	100	15.15	n.a.	n.a.	82,810	93,520
119	Tirunvannamalai M	109	129	100	13.64	13.64	100	21,000	34,000
120	Tiruppur M	236	295	100	43.52	n.a.	n.a.	n.a.	63,094
121	Tuticorin M	200	217	100	13.47	13.47	100	32,350	35,000
122	Vellore M	175	176	100	11.65	11.65	100	45,887	65,587
	<b>Uttar Pradesh</b>								
123	Agra M.Corp.	892	1,150	75	120.57	120.57	n.a.	n.a.	n.a.
124	Aligarh M.Corp.	481	600	75	34.05	n.a.	n.a.	n.a.	n.a.
125	Allahabad M.Corp.	793	1,015	90	62.94	70.05	90	83,160	106,122
126	Bareilly M.Corp.	587	750	100	106.43	106.43	100	n.a.	n.a.
127	Etawah MB	124	140	100	9.35	n.a.	n.a.	678	2,750
128	Faizabad MB	124	170	70	33.47	33.47	n.a.	n.a.	n.a.
129	Firozabad MB	215	250	60	9.17	n.a.	n.a.	n.a.	n.a.
130	Ghaziabad M.Corp.	454	887	100	63.79	n.a.	n.a.	n.a.	n.a.
131	Gorakhpur M.Corp.	506	600	80	136.58	143.00	80	76,000	90,000
132	Haldwani-cum-Kathgodam MB	104	141	100	10.62	10.62	100	16,854	n.a.
133	Hapur MB	146	200	75	14.20	14.20	70	1,500	2,000
134	Hardwar MB	147	300	100	11.91	11.91	100	27,000	40,000
135	Jhansi MB	301	507	75	46.32	46.32	n.a.	120,000	170,000
136	Mathura MB	227	400	67	9.37	n.a.	n.a.	n.a.	80,000
137	Meerut M.Corp.	754	1,250	100	141.94	141.94	100	n.a.	n.a.
138	Mirzapur MB	169	210	81	38.85	38.85	62	26,000	31,500
139	Moradabad M.Corp.	429	670	72	34.19	50.48	80	n.a.	n.a.
140	Muzaffarnagar MB	241	325	80	12.04	12.04	80	42,471	57,966
141	Rae Bareilly MB	130	175	75	50.12	n.a.	n.a.	14,846	29,750

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
142	Rampur MB	244	317	100	20.20	n.a.	n.a.	n.a.	n.a.
143	Saharanpur MB	375	540	50	25.36	25.36	51	142,000	175,000
144	Sitapur MB	122	150	100	25.90	35.00	100	n.a.	n.a.
145	Unnao MB	107	121	100	15.54	21.50	100	10,000	13,000
	<b>West Bengal</b>								
146	Asansol M.Corp.	262	315	100	25.12	n.a.	n.a.	n.a.	n.a.
147	Baharampur M	115	143	100	16.19	16.19	100	32,000	55,690
148	Balurghat M	120	132	100	6.37	8.50	100	40,000	52,000
149	Bankura M	115	151	95	19.06	19.06	100	25,000	33,000
150	Barasat M	103	150	67	20.25	34.50	75	39,000	64,845
151	Burdwan M	245	323	84	23.04	34.18	84	97,000	110,000
152	Halisahar M	114	149	n.a.	8.28	n.a.	n.a.	47,919	n.a.
153	Krishna Nagar M	121	145	100	15.96	15.96	100	50,523	60,603
154	Midnapur M	125	158	100	14.78	18.85	100	42,000	59,000
155	North Barrackpur M	101	118	100	8.42	12.22	100	17,548	22,500
156	Santipur M	110	134	100	24.60	25.88	100	60,000	64,000
157	Siliguri M.Corp.	338*	500	64	15.54	41.90	64	42,000	157,000
	<b>Small States</b>								
	<b>Assam</b>								
158	Guwahati M.Corp.	584	1,400	100	216.79	216.79	100	95,000	105,000
159	Jorhat MB	112	170	100	9.20	n.a.	n.a.	18,600	n.a.
	<b>Manipur</b>								
160	Imphal MCI	199	245	100	33.30	33.30	100	0	0
	<b>Meghalaya</b>								
161	Shillong MB	132	217	100	10.36	10.36	100	n.a.	n.a.
	<b>Tripura</b>								
162	Agartala MCI	157	200	100	15.80	16.01	100	25,000	27,000
	<b>Union Territories</b>								
163	Chandigarh M.Corp.	504	850	94	69.52	n.a.	n.a.	n.a.	n.a.
164	Pondicherry M	203	290	100	19.54	19.54	100	40,500	58,000

\* Estimated by respective local governments / relevant agencies

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
<b>Class II</b>									
<b>Andhra Pradesh</b>									
1	Anakapalle M	84	115	100	23.28	23.28	100	20,942	22,000
2	Dharmavaram M	79	100	100	40.45	40.45	100	36,322	46,982
3	Gudur MCI	56	72	100	9.42	9.42	100	19,402	21,000
4	Kapra M	88	120	80	43.90	65.00	80	23,887	30,387
5	Kavali MCI	66	85	100	22.95	22.95	100	25,168	30,000
6	Madanapalle M	74	100	100	7.74	14.20	100	13,283	15,975
7	Narasaraopet M	89	95	93	7.65	7.65	93	40,594	45,244
8	Rajendra Nagar MCI	85	120	100	52.25	52.25	100	24,346	26,281
9	Sangareddy MCI	50	60	100	13.60	13.69	100	23,225	25,246
10	Srikakulam MCI	89	100	100	14.12	14.12	100	37,375	n.a.
11	Srikalahasti M	62	70	100	24.50	n.a.	n.a.	14,000	20,506
12	Suryapet MCI	61	89	100	23.54	11.50	100	42,931	49,000
<b>Bihar</b>									
13	Buxar M	56	67	82	5.16	8.50	82	14,270	15,500
14	Deoghar M	76	100	100	n.a.	n.a.	n.a.	n.a.	n.a.
15	Hajipur M	88	115	100	19.64	19.64	100	26,000	30,000
16	Hazaribagh M	98	119	100	26.35	n.a.	n.a.	n.a.	n.a.
17	Jehanabad M	52	57	88	8.00	7.00	88	9,351	11,225
18	Madhubani M	54	65	77	19.00	19.00	77	n.a.	n.a.
19	Mokama M	60	66	n.a.	14.18	n.a.	n.a.	n.a.	36,000
<b>Gujarat</b>									
20	Amreli M	68	85	100	11.44	13.59	100	n.a.	n.a.
21	Ankleswar M	52	60	100	11.05	11.05	100	15,000	16,000
22	Dabhoi M	51	65	100	23.82	23.82	100	8,000	10,000
23	Dohad M	67	78	100	6.54	7.00	100	3,000	7,000
24	Gondal M	81	100	100	7.29	11.00	100	15,000	20,000
25	Jetpur M	74	125	100	10.36	36.00	100	12,000	20,000
26	Mahesana M	88	138	100	12.87	12.87	100	18,000	24,000
27	Palanpur M	81	117	100	14.92	23.48	100	20,000	30,000
<b>Haryana</b>									
28	Jind MCI	85	114	70	15.30	15.00	70	22,550	26,160
29	Kaithal MCI	71	95	81	7.90	n.a.	n.a.	7,874	26,286
30	Rewari MCI	75	105	100	18.43	n.a.	n.a.	29,600	34,236
31	Thanesar MCI	81	100	72	32.25	32.25	72	23,746	38,687

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
	<b>Karnataka</b>								
32	Bagalkot CMC	77	100	85	33.59	42.00	85	15,360	23,500
33	Chikmagalur CMC	61	100	100	9.32	n.a.	n.a.	8,000	12,000
34	Gokak CMC	52	68	100	7.22	n.a.	n.a.	10,000	13,500
35	Hospet CMC	96	114	100	7.66	n.a.	n.a.	30,000	32,000
36	Kolar CMC	83	112	100	7.91	n.a.	n.a.	16,643	22,000
37	Rabkavi-Banhatti CMC	61	72	100	3.62	n.a.	n.a.	5,700	7,099
38	Ramanagaram CMC	50	70	100	4.96	n.a.	n.a.	8,000	20,000
	<b>Kerala</b>								
39	Changanessary MC	52	62	100	13.50	13.50	100	15,000	25,000
40	Payyanur M	64	71	100	54.63	54.63	100	1,000	1,100
41	Taliparamba M	60	52	100	43.08	18.21	100	0	0
42	Thrissur MC	75	91	100	12.65	16.65	100	17,900	21,000
	<b>Madhya Pradesh</b>								
43	Hoshangabad M	71	100	100	24.27	24.27	100	n.a.	n.a.
44	Itarsi M	77	105	100	14.07	14.07	100	n.a.	n.a.
45	Khargone M	67	80	100	10.00	10.00	100	30,000	35,000
46	Mandsaur M	96	123	100	10.32	10.32	100	n.a.	10,000
47	Nagda M	80	100	80	23.83	18.00	100	17,000	18,685
48	Neemuch M	86	100	100	13.42	13.42	100	40,465	44,962
49	Sehore M	71	100	100	16.42	18.00	100	11,434	n.a.
50	Shahdol M	56	75	100	19.92	19.92	100	12,000	15,000
51	Vidisha M	93	125	100	5.83	5.83	100	23,229	26,423
	<b>Maharashtra</b>								
52	Amalner MCI	76	100	100	9.71	9.71	100	18,000	24,000
53	Ballarpur MCI	84	109	100	16.51	n.a.	n.a.	n.a.	n.a.
54	Bhandara M	72	76	100	16.84	16.84	100	28,970	37,661
55	Kamptee MCI	79	95	100	4.27	4.27	100	n.a.	n.a.
56	Manmad MCI	61	87	100	28.70	28.70	100	n.a.	n.a.
57	Ratnagiri MCI	57	70	100	10.49	10.19	100	9,065	11,594
58	Satara MCI	95	100	100	7.69	8.16	100	21,620	25,000
59	Virar MCI	58	100	100	19.52	19.52	100	11,520	20,000
	<b>Punjab</b>								
60	Ferozepur MCI	79	93	80	11.33	9.00	80	11,300	15,400
61	Kapurthala M	65	85	63	56.00	56.00	63	8,400	8,400

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		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated)*	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
62	Mansa MCI	55	67	100	20.00	23.47	100	10,427	11,265
63	Phagwara MCI	83	108	80	16.00	12.80	80	10,424	8,610
64	Sangrur MCI	56	70	75	13.90	18.00	75	10,950	20,500
	<b>Rajasthan</b>								
65	Banswara M	67	110	100	16.01	16.01	100	n.a.	n.a.
66	Barmer M	69	84	100	10.29	10.29	100	13,000	16,000
67	Bundi M	65	80	100	22.76	30.00	100	15,000	18,000
68	Churu M	82	100	100	28.00	35.00	100	6,000	7,260
69	Hanumangarh M	79	125	100	13.42	13.42	100	4,000	5,000
70	Sawai Madhopur M	72	89	100	59.00	59.00	100	12,433	15,000
	<b>Tamil Nadu</b>								
71	Ambur M	76	86	100	18.05	18.05	100	22,900	23,500
72	Arakkonam M	72	88	100	9.06	9.06	100	14,000	15,000
73	Attur M	56	64	100	27.62	27.62	100	7,125	9,000
74	Cumbum M	52	54	100	6.48	6.58	100	10,656	10,656
75	Dharmapuri M	59	67	100	11.65	11.65	100	26,809	30,000
76	Gudiyatham M	83	95	100	4.71	4.71	100	16,425	18,000
77	Nagapattinam M	86	112	100	14.80	14.80	100	12,557	16,160
78	Pudukkottai M	99	108	100	12.95	12.95	100	34,673	38,000
79	Sivakasi M	66	70	100	6.89	6.89	100	4,720	5,000
80	Srivilliputtur M	69	74	100	5.72	5.72	100	12,800	13,000
81	Tindivanam M	62	70	100	22.37	22.37	100	26,109	29,700
82	Udhagamandalam M	82	100	100	30.67	30.67	100	n.a.	13,620
	<b>Uttar Pradesh</b>								
83	Auraiya MB	51	90	100	4.24	9.00	100	n.a.	n.a.
84	Balrampur MB	60	70	86	14.25	n.a.	n.a.	9,500	12,500
85	Basti MB	87	110	91	19.43	19.43	91	n.a.	n.a.
86	Bhadohi MB	64	125	40	10.36	n.a.	n.a.	10,300	15,180
87	Chandpur MB	56	80	50	1.53	n.a.	n.a.	15,000	30,000
88	Etah MB	78	135	65	5.18	n.a.	n.a.	10,000	25,000
89	Ghazipur MB	77	96	70	13.73	9.45	70	30,627	35,527
90	Gonda MB	96	114	100	12.67	12.67	100	10,000	12,000
91	Lakhimpur MB	80	100	100	6.99	9.00	100	11,900	15,000
92	Lalitpur MB	80	100	90	17.35	10.84	100	30,000	40,500

## STATUS OF MUNICIPAL SOLID WASTE MANAGEMENT

### C-1: Population, Area and Coverage, 1999

Sl. No.	City/Town	Population '000		% population covered by service 1999	Area (sq. km.)		% area covered by service 1999	Slum population	
		1991 (Census)	1999 (Estimated)*		1991 (Census)	1999 (Estimated)*		1991 (Estimated*)	1999 (Estimated)*
	1	2	3	4	5	6	7	8	9
93	Mughalsarai MB	67	160	75	3.89	n.a.	n.a.	14,648	38,353
94	Nawabganj-Barabanki MB	65	90	100	3.63	n.a.	n.a.	n.a.	n.a.
95	Orai MB	99	170	75	20.29	15.00	100	20,000	35,000
96	Roorkee MB	80	100	85	n.a.	n.a.	n.a.	n.a.	n.a.
	<b>West Bengal</b>								
97	Bishnupur M	56	67	100	22.02	22.02	100	14,250	19,380
98	Chakdaha M	75	90	50	15.54	7.68	100	n.a.	40,090
99	Contai M	53	114	66	14.25	9.50	100	25,947	40,200
100	Cooch Behar M	71	99	100	8.29	8.29	100	24,000	25,000
101	Darjeeling M	73	93	100	10.57	10.57	100	n.a.	31,534
102	Jalpaiguri M	69	101	100	10.08	12.98	100	n.a.	30,350
103	Jangipur M	56	78	87	7.77	8.20	100	n.a.	35,186
104	Katwa M	56	68	100	8.53	8.53	100	22,214	27,065
105	Raniganj M	62	121	63	4.79	n.a.	n.a.	36,000	45,000
	<b>Small States</b>								
	<b>Himachal Pradesh</b>								
106	Shimla M.Corp.	82	111	100	19.55	28.53	100	0	0
	<b>Nagaland</b>								
107	Kohima TC	51	103	100	23.00	36.00	100	21,000	37,500
	<b>Union Territories</b>								
108	Port Blair MCI	75	105	100	14.14	16.64	100	n.a.	9,800
	<b>Others (Smaller than Class II towns)</b>								
	<b>Small States</b>								
	<b>Goa</b>								
109	Panaji MCI	43	57	100	22.63	22.63	100	2,000	2,000
	<b>Sikkim</b>								
110	Gangtok (Greater Gangtok) NTAC	25	106	75	7.25	7.25	75	n.a.	18,000
	<b>Union Territories</b>								
111	Daman MCI	27	35	100	5.60	5.60	100	2,700	3,500
112	Silvassa CT	12	20	100	6.65	6.65	100	3,000	5,000

\* Estimated by respective local governments / relevant agencies

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
<b>Metropolitan Cities</b>										
1	Ahmedabad M.Corp.	364	1273	703	570	1273	100	once daily	Yes	Incineration
2	Bangalore M.Corp.	500	2500	1500	1000	2200	88	once daily	Yes	Incineration
3	Bhopal M.Corp.	320	480	384	96	360	75	once daily	Yes	n.a.
4	Calcutta M.Corp.	513	2500	1375	1125	2100	84	once daily	Yes	n.a.
5	Chennai M.Corp.	573	2500	1700	800	2500	100	once daily	Yes	None
6	Coimbatore M.Corp.	690	670	n.a.	n.a.	670	100	once daily	Yes	Incineration
7	Delhi M.Corp.	500	6000	4800	1200	5500	92	once daily	Yes	Incineration
8	Greater Mumbai M.Corp.	541	6000	3600	2400	6000	100	once daily	Yes	Incineration
9	Hyderabad M.Corp.	504	2100	n.a.	n.a.	1900	90	once daily	Yes	Incineration
10	Indore M.Corp.	375	600	240	360	600	100	twice daily	Yes	Incineration
11	Jaipur M.Corp.	742	1483	n.a.	n.a.	1483	100	once daily	Yes	Incineration
12	Kanpur M.Corp.	520	1300	910	390	1100	85	once daily	No	n.app.
13	Kochi M.Corp.	368	250	n.a.	n.a.	240	96	once daily	No	n.app.
14	Lucknow M.Corp.	500	1250	800	450	875	70	once daily	No	n.app.
15	Ludhiana M.Corp.	600	1200	800	400	875	73	n.a.	No	n.app.
16	Madurai M.Corp.	471	480	335	145	450	94	once daily	Yes	Incineration
17	Nagpur M.Corp.	286	600	400	200	500	83	once daily	Yes	Incineration
18	Pune M.Corp.	522	1200	900	300	900	75	once daily	No	Incineration
19	Surat M.Corp.	414	1035	466	569	960	93	twice daily	Yes	None
20	Vadodara M.Corp.	400	560	n.a.	n.a.	440	79	twice daily	Yes	Incineration
21	Varanasi M.Corp.	500	576	432	144	461	80	twice daily	No	n.app.
22	Visakhapatnam M.Corp.	469	600	300	300	600	100	once daily	Yes	None
	<b>Total-Metropolitan Cities</b>	<b>500</b>	<b>35157</b>	<b>19645</b>	<b>10449</b>	<b>31987</b>	<b>91</b>			

\* Estimated by respective local governments / relevant agencies

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
<b>Class I</b>										
<b>Andhra Pradesh</b>										
1	Anantapur MCI	440	110	60	50	110	100	once daily	No	n.app.
2	Chittoor M	502	75	54	21	70	100	once daily	No	n.app.
3	Cuddapah MCI	506	84	39	45	84	100	once daily	No	n.app.
4	Eluru M	591	146	90	56	146	100	n.a.	No	n.app.
5	Guntur MCI	449	250	190	60	250	100	once daily	No	n.app.
6	Hindupur M	500	70	n.a.	n.a.	70	100	once daily	No	n.app.
7	Kakinada M	492	160	90	70	145	91	twice daily	No	n.app.
8	Kurnool MCI	355	100	56	44	90	90	once daily	No	n.app.
9	Machilipatnam M	350	70	28	42	50	71	once daily	No	n.app.
10	Nandyal MCI	400	60	36	24	60	100	once daily	Yes	n.a.
11	Nellore MCI	413	167	120	47	167	100	once daily	No	n.app.
12	Nizamabad M	498	142	85	57	88	62	twice daily	No	n.app.
13	Ongole MCI	500	90	57	33	90	100	once daily	Yes	n.a.
14	Qutubullapur M	280	70	60	10	70	100	once daily	No	n.app.
15	Rajahmundry M.Corp.	508	193	31	162	193	100	twice daily	No	n.app.
16	Tenali M	529	90	11	79	80	89	twice daily	No	n.app.
17	Tirupati MCI	619	130	85	45	130	100	once daily	No	n.app.
18	Vijaywada M.Corp.	568	475	250	225	465	98	twice daily	Yes	Incineration
19	Warangal M.Corp.	412	280	140	140	230	82	once daily	No	n.app.
<b>Bihar</b>										
20	Bihar Sharif M	200	50	22	29	50	100	once daily	No	n.app.
21	Chhapra M	480	96	n.a.	n.a.	66	69	twice daily	Yes	Incineration
22	Gaya M.Corp.	200	80	60	20	80	100	twice daily	No	n.app.
23	Katihar M	400	80	n.a.	n.a.	45	56	once daily	No	n.app.
24	Munger M	333	70	n.a.	n.a.	50	71	twice daily	No	n.app.
25	Ranchi M.Corp.	146	102	n.a.	n.a.	34	33	once daily	No	n.app.
<b>Gujarat</b>										
26	Anand M	57	10	4.0	6	10	100	twice daily	No	n.app.
27	Bharuch M	535	85	44	41	85	100	once daily	No	n.app.
28	Bhavnagar M.Corp.	300	165	95	70	115	70	n.a.	No	n.app.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
29	Bhuj M	339	40	28	12	40	100	once daily	No	n.app.
30	Jamnagar M.Corp.	600	300	150	150	300	100	once daily	No	n.app.
31	Junagadh M	515	85	45	40	75	88	twice daily	No	n.app.
32	Nadiad M	200	60	30	30	60	100	twice daily	No	n.app.
33	Navsari M	288	40	30	10	31	78	twice daily	No	n.app.
34	Porbandar M	204	29	n.a.	n.a.	22	76	once daily	No	n.app.
35	Rajkot M.Corp.	450	450	450	n.a.	425	94	once daily	Yes	None
36	Surendranagar M	207	31	n.a.	n.a.	31	100	once daily	No	n.app.
	<b>Haryana</b>									
37	Ambala MCI	248	35	25	10	30	86	once daily	No	n.app.
38	Faridabad M.Corp.	478	550	492	58	480	87	once daily	No	n.app.
39	Gurgaon MCI	514	90	70	20	80	89	twice daily	No	n.app.
40	Hissar MCI	200	50	32	18	32	64	once daily	No	n.app.
41	Karnal MCI	341	75	50	25	52	69	twice daily	No	n.app.
42	Rohtak MCI	210	51	30	21	28	55	once daily	No	n.app.
	<b>Jammu &amp; Kashmir</b>									
43	Jammu M.Corp.	468	425	n.a.	n.a.	300	71	twice daily	No	n.app.
44	Srinagar M.Corp.	375	300	200	100	200	67	once daily	Yes	Incineration
	<b>Karnataka</b>									
45	Belgaum M.Corp.	266	125	75	50	100	80	once daily	No	n.app.
46	Bellary CMC	202	60	36	24	50	83	once daily	No	n.app.
47	Davangere MCI	198	90	36	54	78	87	twice daily	No	n.app.
48	Gadag-Betigeri CMC	506	75	20	55	60	80	twice daily	No	n.app.
49	Gulbarga M.Corp.	200	90	60	30	76	84	once daily	Yes	n.a.
50	Hubli-Dharwad M.Corp.	376	320	100	220	220	69	once daily	No	n.app.
51	Mandya M	179	25	18	7.0	25	100	twice daily	No	n.app.
52	Mangalore M.Corp.	190	78	46	32	70	90	twice daily	No	n.app.
53	Mysore M.Corp.	195	205	138	67	205	100	twice daily	No	n.app.
54	Shimoga CMC	361	80	35	45	72	89	once daily	No	n.app.
55	Tumkur M	290	87	26	61	84	97	once daily	No	n.app.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
	<b>Kerala</b>									
56	Alappuzha MC	125	25	19	6.3	20	80	once daily	Yes	Incineration
57	Kollam MC	375	60	19	41	58	97	twice daily	Yes	Incineration
58	Kozhikode M.Corp.	446	220	145	75	154	70	twice daily	Yes	Incineration
59	Thalaserry M	299	40	20	20	30	75	once daily	No	n.app.
60	Thiruvananthapuram M.Corp.	513	300	n.a.	n.a.	250	83	once daily	Yes	Incineration
	<b>Madhya Pradesh</b>									
61	Bhind M	160	28	21	7.3	24	86	twice daily	No	n.app.
62	Burhanpur M.Corp.	286	60	n.a.	n.a.	60	100	twice daily	No	n.app.
63	Dewas M.Corp.	250	50	n.a.	n.a.	40	80	once daily	Yes	Incineration
64	Guna M	144	18	12	6.0	18	100	twice daily	No	n.app.
65	Gwalior M.Corp.	400	360	n.a.	n.a.	280	78	once daily	No	n.app.
66	Jabalpur M.Corp.	300	300	145	155	298	99	once daily	No	n.app.
67	Khandwa M	114	20	18	2.0	20	100	once daily	No	n.app.
68	Morena M	400	50	28	22	44	88	twice daily	No	n.app.
69	Murwara-Katni M.Corp.	350	63	33	30	63	100	twice daily	No	n.app.
70	Ratlam M.Corp.	213	50	n.a.	n.a.	35	70	once daily	Yes	n.a.
71	Rewa M.Corp.	267	48	48	n.app.	40	83	twice daily	No	n.app.
72	Satna M.Corp.	250	50	n.a.	n.a.	50	100	twice daily	No	n.app.
73	Shivpuri M	129	18	10	8.0	18	100	twice daily	No	n.app.
	<b>Maharashtra</b>									
74	Amravati M.Corp.	200	100	n.a.	n.a.	100	100	once daily	No	n.app.
75	Aurangabad M.Corp.	392	340	170	170	340	100	thrice daily	No	n.app.
76	Bhusawal M.Cl.	150	30	30	n.a.	30	100	once daily	No	n.app.
77	Chandrapur MCl	502	148	15	133	110	74	once daily	No	n.app.
78	Dhule MCl	106	35	n.a.	n.a.	30	86	once daily	No	n.app.
79	Ichalkaranji MCl	660	165	132	33	150	91	once daily	No	n.app.
80	Jalgaon MCl	550	220	100	120	220	100	once daily	No	n.app.
81	Kolhapur M.Corp.	309	155	n.a.	n.a.	115	74	once daily	No	n.app.
82	Nanded Waghala M.Corp.	312	128	110	18	90	70	twice daily	No	n.app.
83	Nashik M.Corp.	334	280	251	29	280	100	weekly	No	n.app.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
84	Parbhani MCI	309	72	n.a.	n.a.	72	100	thrice daily	No	n.app.
85	Solapur M.Corp.	450	405	243	162	353	87	twice daily	No	n.app.
86	Wardha M	267	40	20	20	40	100	alternate day	No	n.app.
87	Yavatmal MCI	77	10	4.5	5.5	10	100	twice daily	No	n.app.
<b>Orissa</b>										
88	Bhubaneswar M.Corp.	535	350	n.a.	n.a.	175	50	once daily	No	n.app.
89	Cuttack M.Corp.	568	320	219	101	320	100	once daily	No	n.app.
90	Puri M	401	60	33	27	53	88	once daily	No	n.app.
91	Rourkela M	300	60	28	32	40	67	once daily	No	n.app.
92	Sambalpur M	465	73	n.a.	n.a.	32	44	once daily	No	n.app.
<b>Punjab</b>										
93	Amritsar M.Corp.	711	600	375	225	510	85	once daily	No	n.app.
94	Bathinda MCI	603	105	60	45	95	90	once daily	No	n.app.
95	Hoshiarpur MCI	228	33	26	6.6	33	100	once daily	No	n.app.
96	Jalandhar M. Corp.	339	250	185	65	236	94	once daily	No	n.app.
97	Moga MCI	243	36	25	11	36	100	once daily	No	n.app.
98	Pathankot MCI	128	25	20	5.3	23	92	once daily	No	n.app.
99	Patiala M.Corp.	244	80	50	30	80	100	once daily	No	n.app.
<b>Rajasthan</b>										
100	Ajmer MCI	545	300	250	50	250	83	twice daily	No	n.app.
101	Alwar M	333	100	n.a.	n.a.	100	100	once daily	No	n.app.
102	Beawar M	298	42	n.a.	n.a.	42	100	twice daily	No	n.app.
103	Bhilwara M	324	73	29	44	58	79	twice daily	Yes	n.a.
104	Bikaner M	300	180	126	54	180	100	twice daily	No	n.app.
105	Jodhpur M.Corp.	308	308	240	69	308	100	twice daily	Yes	Incineration
106	Kota M.Corp.	280	210	n.a.	n.a.	120	57	once daily	No	n.app.
107	Sriganganagar M	116	26	26	0.1	24	92	twice daily	No	n.app.
<b>Tamil Nadu</b>										
108	Cuddalore M	401	65	45	20	60	92	once daily	Yes	Incineration
109	Dindigul M	178	38	17	21	17	43	once daily	Yes	Incineration
110	Erode M	518	90	30	60	85	94	once daily	No	n.app.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
111	Kanchipuram M	210	33	26	7.0	19	58	twice daily	Yes	None
112	Kumbakonam M	306	45	15	30	40	89	twice daily	Yes	Incineration
113	Nagercoil M	170	35	28	7.0	30	86	once daily	Yes	Incineration
114	Rajapalayam M	359	44	26	18	43	97	once daily	No	n.app.
115	Salem M.Corp.	559	250	160	90	214	86	once daily	Yes	Incineration
116	Thanjavur M	198	43	24	19	35	81	once daily	Yes	Incineration
117	Tiruchirapalli M.Corp.	375	300	255	45	280	93	twice daily	Yes	None
118	Tirunelveli M.Corp.	242	100	60	40	87	87	once daily	No	n.app.
119	Tirunannamalai M	300	39	24	15	32	83	once daily	No	n.app.
120	Tiruppur M	339	100	51	49	100	100	n.a.	No	n.app.
121	Tuticorin M	115	25	10	15	25	100	once daily	No	n.app.
122	Vellore M	227	40	n.a.	n.a.	35	88	once daily	No	n.app.
	<b>Uttar Pradesh</b>									
123	Agra M.Corp.	500	575	230	345	430	75	once daily	No	n.app.
124	Aligarh M.Corp.	600	360	180	180	275	76	twice daily	No	n.app.
125	Allahabad M.Corp.	300	305	204	101	250	82	twice daily	No	n.app.
126	Bareilly M.Corp.	533	400	152	248	320	80	twice daily	No	n.app.
127	Etawah MB	193	27	24	3.0	27	100	twice daily	No	n.app.
128	Faizabad MB	400	68	45	23	54	79	twice daily	No	n.app.
129	Firozabad MB	640	160	128	32	144	90	twice daily	No	n.app.
130	Ghaziabad M.Corp.	338	300	n.a.	n.a.	300	100	twice daily	No	n.app.
131	Gorakhpur M.Corp.	500	300	225	75	240	80	twice daily	No	n.app.
132	Haldwani-cum-Kathgodam MB	569	80	30	50	80	100	twice daily	No	n.app.
133	Hapur MB	575	115	n.a.	n.a.	70	61	twice daily	No	n.app.
134	Hardwar MB	683	205	n.a.	n.a.	182	89	twice daily	No	n.app.
135	Jhansi MB	355	180	100	80	135	75	twice daily	No	n.app.
136	Mathura MB	425	170	n.a.	n.a.	150	88	once daily	Yes	Incineration
137	Meerut M.Corp.	500	625	n.a.	n.a.	500	80	twice daily	No	n.app.
138	Mirzapur MB	500	105	75	30	86	81	twice daily	No	n.app.
139	Moradabad M.Corp.	448	300	200	100	300	100	thrice daily	No	n.app.
140	Muzaffarnagar MB	498	162	100	62	130	80	twice daily	No	n.app.
141	Rae Bareli MB	500	88	53	35	66	75	twice daily	No	n.app.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
142	Rampur MB	505	160	n.a.	n.a.	120	75	twice daily	No	n.app.
143	Saharanpur MB	500	270	130	140	200	74	twice daily	No	n.app.
144	Sitapur MB	500	75	n.a.	n.a.	70	93	once daily	No	n.app.
145	Unnao MB	99	12	n.a.	n.a.	8	67	once daily	No	n.app.
	<b>West Bengal</b>									
146	Asansol M.Corp.	248	78	52	26	60	77	once daily	No	n.app.
147	Baharampur M	566	81	59	22	81	100	once daily	No	n.app.
148	Balurghat M	250	33	18	15	33	100	once daily	No	n.app.
149	Bankura M	183	28	10	18	26	94	once daily	Yes	None
150	Barasat M	353	53	45	8.0	24	45	thrice daily	No	n.app.
151	Burdwan M	310	100	55	45	75	75	twice daily	No	n.app.
152	Halisahar M	134	20	8.0	12	17	85	once daily	n.a.	n.a.
153	Krishna Nagar M	342	50	25	25	38	76	once daily	No	n.app.
154	Midnapur M	400	63	33	30	53	84	twice daily	No	n.app.
155	North Barrackpur M	338	40	30	10	40	100	once daily	No	n.app.
156	Santipur M	250	33	20	13	33	100	twice weekly	No	n.app.
157	Siliguri M.Corp.	480	240	202	38	150	63	once daily	No	n.app.
	<b>Small States</b>									
	<b>Assam</b>									
158	Guwahati M.Corp.	214	300	180	120	240	80	once daily	Yes	Incineration
159	Jorhat MB	118	20	11	9.0	14	70	once daily	n.a.	n.a.
	<b>Manipur</b>									
160	Imphal MCI	249	61	20	41	38	62	once daily	Yes	None
	<b>Meghalaya</b>									
161	Shillong MB	360	78	51	27	78	100	once daily	No	n.app.
	<b>Tripura</b>									
162	Agartala MCI	400	80	47	33	60	75	twice daily	Yes	n.a.
	<b>Union Territories</b>									
163	Chandigarh M.Corp.	382	325	n.a.	n.a.	280	86	once daily	No	n.app.
164	Pondicherry M	517	150	112	38	120	80	twice daily	Yes	Incineration

\* Estimated by respective local governments / relevant agencies

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
<b>Class II</b>										
<b>Andhra Pradesh</b>										
1	Anakapalle M	565	65	50	15	55	85	twice daily	No	n.app.
2	Dharmavaram M	100	10	4.0	6.0	9	90	once daily	No	n.app.
3	Gudur MCI	417	30	6.0	24	18	60	twice daily	No	n.app.
4	Kapra M	400	48	29	19	48	100	once daily	No	n.app.
5	Kavali MCI	424	36	23	13	24	67	once daily	No	n.app.
6	Madanapalle M	250	25	15	10	20	80	twice daily	No	n.app.
7	Narasaraopet M	474	45	15	30	42	93	once daily	No	n.app.
8	Rajendra Nagar MCI	100	12	6.0	6.0	12	100	once daily	Yes	None
9	Sangareddy MCI	300	18	5.4	13	18	100	once daily	No	n.app.
10	Srikakulam MCI	400	40	28	12	25	63	once daily	No	n.app.
11	Srikalahasti M	500	35	n.a.	n.a.	30	86	once daily	No	n.app.
12	Suryapet MCI	506	45	17	28	40	89	once daily	No	n.app.
<b>Bihar</b>										
13	Buxar M	180	12	n.a.	n.a.	12	100	once daily	No	n.app.
14	Deoghar M	250	25	n.a.	n.a.	10	40	once daily	No	n.app.
15	Hajipur M	497	57	n.a.	n.a.	24	42	once daily	No	n.app.
16	Hazaribagh M	504	60	42	18	36	60	once daily	No	n.app.
17	Jehanabad M	175	10	9.5	0.5	10	100	once daily	No	n.app.
18	Madhubani M	338	22	n.a.	n.a.	15	68	twice daily	No	n.app.
19	Mokama M	606	40	30	10	4	10	once daily	No	n.app.
<b>Gujarat</b>										
20	Amreli M	353	30	n.a.	n.a.	30	100	twice daily	No	n.app.
21	Ankleswar M	100	6	n.a.	n.a.	6	100	once daily	Yes	None
22	Dabhoi M	277	18	n.a.	n.a.	18	100	once daily	No	n.app.
23	Dohad M	51	4	2.5	1.5	4	100	twice daily	No	n.app.
24	Gondal M	100	10	8.0	2.0	10	100	once daily	No	n.app.
25	Jetpur M	400	50	25	25	40	80	once daily	No	n.app.
26	Mahesana M	58	8	n.a.	n.a.	8	100	twice daily	Yes	None
27	Palanpur M	598	70	n.a.	n.a.	40	57	twice weekly	No	n.app.
<b>Haryana</b>										
28	Jind MCI	211	24	19	5.0	18	75	once daily	No	n.app.
29	Kaithal MCI	159	15	11	4.0	12	80	once daily	No	n.app.
30	Rewari MCI	152	16	16	0	16	100	twice daily	No	n.app.
31	Thanesar MCI	305	31	25	5.5	24	80	once daily	No	n.app.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
	<b>Karnataka</b>									
32	Bagalkot CMC	150	15	9.0	6.0	13	87	twice daily	No	n.app.
33	Chikmagalur CMC	200	20	9.0	11	18	90	once daily	No	n.app.
34	Gokak CMC	132	9	4.0	5.0	7	78	twice daily	Yes	None
35	Hospet CMC	350	40	17	23	31	78	alternate day	No	n.app.
36	Kolar CMC	223	25	12	13	15	60	alternate day	No	n.app.
37	Rabkavi-Banhatti CMC	250	18	13	4.7	12	67	once daily	No	n.app.
38	Ramanagaram CMC	357	25	17	8.0	10	40	alternate day	No	n.app.
	<b>Kerala</b>									
39	Changanessary MC	242	15	7.5	7.5	12	80	once daily	No	n.app.
40	Payyanur M	142	10	6.0	4.0	4	40	once daily	No	n.app.
41	Taliparamba M	200	10	7.0	3.4	3	29	once daily	No	n.app.
42	Thrissur MC	440	40	24	16	35	88	once daily	Yes	Incineration
	<b>Madhya Pradesh</b>									
43	Hoshangabad M	150	15	14	1.0	15	100	twice daily	No	n.app.
44	Itarsi M	143	15	12	3.0	15	100	once daily	No	n.app.
45	Khargone M	75	6	n.a.	n.a.	6	100	twice daily	No	n.app.
46	Mandsaur M	325	40	30	10	26	65	twice daily	No	n.app.
47	Nagda M	200	20	n.a.	n.a.	10	50	twice daily	No	n.app.
48	Neemuch M	80	8	5.0	3.0	8	100	twice daily	No	n.app.
49	Sehore M	300	30	n.a.	n.a.	30	100	once daily	No	n.app.
50	Shahdol M	150	11	5.3	6.0	9	80	once daily	No	n.app.
51	Vidisha M	100	13	9.0	3.5	10	80	twice daily	No	n.app.
	<b>Maharashtra</b>									
52	Amalner MCI	60	6	n.a.	n.a.	6	100	once daily	No	n.app.
53	Ballarpur MCI	165	18	10	8.0	18	100	once daily	Yes	Incineration
54	Bhandara M	158	12	n.a.	n.a.	12	100	twice daily	No	n.app.
55	Kamptee MCI	584	55	35	20	40	72	once daily	No	n.app.
56	Manmad MCI	98	8.5	5.4	3.1	5.4	64	twice daily	No	n.app.
57	Ratnagiri MCI	429	30	22	8.0	22	73	once daily	No	n.app.
58	Satara MCI	300	30	n.a.	n.a.	17	55	once daily	No	n.app.
59	Virar MCI	500	50	40	10	50	100	twice daily	No	n.app.
	<b>Punjab</b>									
60	Ferozepur MCI	543	50	38	12	40	80	twice daily	No	n.app.
61	Kapurthala M	118	10	8.0	2.0	10	100	twice daily	No	n.app.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
62	Mansa MCI	406	27	27	0	27	100	once daily	No	n.app.
63	Phagwara MCI	148	16	13	3.0	14	88	twice daily	No	n.app.
64	Sangrur MCI	285	20	15	5.0	15	75	twice daily	No	n.app.
	<b>Rajasthan</b>									
65	Banswara M	227	25	n.a.	n.a.	25	100	twice daily	No	n.app.
66	Barmer M	298	25	23	2.0	18	72	twice daily	No	n.app.
67	Bundi M	375	30	24	6.0	24	80	once daily	No	n.app.
68	Churu M	343	34	25	9.2	30	87	twice daily	No	n.app.
69	Hanumangarh M	344	43	39	4.0	43	100	once daily	No	n.app.
70	Sawai Madhopur M	45	4	3.0	1.0	4	100	once daily	Yes	n.a.
	<b>Tamil Nadu</b>									
71	Ambur M	187	16	8.0	8.0	13	81	once daily	Yes	n.a.
72	Arakkonam M	205	18	n.a.	n.a.	11	61	once daily	No	n.app.
73	Attur M	203	13	8.0	5.0	10	77	once daily	No	n.app.
74	Cumbum M	76	4	n.a.	n.a.	4	100	once daily	No	n.app.
75	Dharmapuri M	250	17	10	6.7	11	66	twice daily	Yes	Incineration
76	Gudiyatham M	179	17	8.5	8.5	16	94	once daily	No	n.app.
77	Nagapattinam M	267	30	n.a.	n.a.	25	83	once daily	Yes	Incineration
78	Pudukkottai M	204	22	n.a.	n.a.	20	91	once daily	Yes	None
79	Sivakasi M	100	7	4.0	3.0	5	71	once daily	No	n.app.
80	Srivilliputtur M	298	22	13	9.0	20	91	once daily	No	n.app.
81	Tindivanam M	214	15	n.a.	n.a.	12	80	once daily	Yes	None
82	Udhagamandalam M	74	7.4	2.3	5.1	7.4	100	once daily	No	n.app.
	<b>Uttar Pradesh</b>									
83	Auraiya MB	244	22	19	3.3	21	95	twice daily	No	n.app.
84	Balrampur MB	371	26	n.a.	n.a.	20	77	once daily	No	n.app.
85	Basti MB	364	40	n.a.	n.a.	35	88	once daily	No	n.app.
86	Bhadohi MB	600	75	30	45	40	53	twice daily	No	n.app.
87	Chandpur MB	61	4.9	4.8	0.1	4.9	100	twice daily	No	n.app.
88	Etah MB	450	61	43	18	40	66	twice daily	No	n.app.
89	Ghazipur MB	403	39	29	10	27	70	twice daily	Yes	n.a.
90	Gonda MB	298	34	n.a.	n.a.	25	74	twice daily	No	n.app.
91	Lakhimpur MB	450	45	n.a.	n.a.	35	78	twice daily	No	n.app.
92	Lalitpur MB	550	55	50	5.0	55	100	twice daily	Yes	n.a.

**Status of Municipal Solid Waste Management**  
**C-2: Solid Waste Generation and Collection, 1999**

Sl. No.	City/Town	Solid waste generated		Solid Waste by source (MT/day)		Waste collected (MT/day)	% waste collected to generated	Frequency of solid waste collection	Medical waste collected & disposed	
		gms pc /day	MT /day *	Domestic	Non-domestic				Separately (Yes/No)	Treatment provided
	1	2	3	4	5	6	7	8	9	10
93	Mughalsarai MB	400	64	39	26	48	75	twice daily	No	n.app.
94	Nawabganj-Barabanki MB	111	10	n.a.	n.a.	6	62	once daily	No	n.app.
95	Orai MB	450	77	55	22	29	38	twice daily	No	n.app.
96	Roorkee MB	300	30	18	12	27	90	twice daily	No	n.app.
	<b>West Bengal</b>									
97	Bishnupur M	199	13	11	2.7	13	100	once daily	No	n.app.
98	Chakdaha M	300	27	20	6.7	7	28	twice weekly	No	n.app.
99	Contai M	250	29	22	6.4	9	31	twice daily	Yes	None
100	Cooch Behar M	214	21	10	11	21	100	twice daily	Yes	None
101	Darjeeling M	538	50	15	35	30	60	once daily	No	n.app.
102	Jalpaiguri M	247	25	20	5.3	21	82	once daily	Yes	None
103	Jangipur M	422	33	11	23	18	55	once daily	No	n.app.
104	Katwa M	547	37	14	23	36	97	once daily	Yes	None
105	Raniganj M	446	54	36	18	41	76	once daily	Yes	None
	<b>Small States</b>									
	<b>Himachal Pradesh</b>									
106	Shimla M.Corp.	396	44	19	25	35	80	once daily	No	n.app.
	<b>Nagaland</b>									
107	Kohima TC	219	23	n.a.	n.a.	23	100	n.a.	No	n.app.
	<b>Union Territories</b>									
108	Port Blair MCI	476	50	45	5.0	44	88	once daily	Yes	Incineration
	<b>Others (Smaller than Class II towns)</b>									
	<b>Small States</b>									
	<b>Goa</b>									
109	Panaji MCI	385	22	9.0	13	11	51	twice daily	Yes	Incineration
	<b>Sikkim</b>									
110	Gangtok (Greater Gangtok) NTAC	660	70	30	40	35	50	once daily	No	n.app.
	<b>Union Territories</b>									
111	Daman MCI	314	11	n.a.	n.a.	11	100	twice daily	No	n.app.
112	Silvassa CT	200	4	3.5	0.5	4	100	once daily	No	n.app.
	<b>Total-Class II Towns</b>	<b>297</b>	<b>3079</b>	<b>1520</b>	<b>869</b>	<b>2314</b>	<b>75</b>			
	<b>Grand Total</b>	<b>433</b>	<b>60823</b>	<b>32003</b>	<b>18130</b>	<b>53505</b>	<b>88</b>			

\* Estimated by respective local governments / relevant agencies

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
<b>Metropolitan Cities</b>									
1	Ahmedabad M.Corp.	92	-	1-5	-	867	10	Y	-
2	Bangalore M.Corp.	316	-	1-2	-	2200	15	Y	-
3	Bhopal M.Corp.	51	-	2	-	360	15	Y	-
4	Calcutta M.Corp.	225	-	2-3	-	2100	5	Y	-
5	Chennai M.Corp.	425	-	2-4	-	2500	5	Y	-
6	Coimbatore M.Corp.	68	-	3	-	563	15	N	n.a.
7	Delhi M.Corp.	560	-	3	-	5500	20	Y	-
8	Greater Mumbai M.Corp.	1173	-	1-2	-	6000	15	Y	-
9	Hyderabad M.Corp.	175	-	2-4	-	1885	5	Y	-
10	Indore M.Corp.	n.a.	-	n.a.	-	600	5	Y	-
11	Jaipur M.Corp.	64	-	3	-	1483	10	Y	-
12	Kanpur M.Corp.	103	-	4-5	-	1100	30	Y	-
13	Kochi M.Corp.	43	-	2	-	240	n.a.	N	Private workshop
14	Lucknow M.Corp.	47	-	4-8	-	875	20	Y	-
15	Ludhiana M.Corp.	66	-	2-15	-	875	n.a.	n.a.	n.a.
16	Madurai M.Corp.	64	-	3	-	450	10	N	Private workshop
17	Nagpur M.Corp.	74	-	2-5	-	500	10	Y	-
18	Pune M.Corp.	123	-	2-5	-	900	n.a.	Y	-
19	Surat M.Corp.	124	-	2-4	-	960	20	Y	-
20	Vadodara M.Corp.	47	-	2-7	-	440	10	Y	-
21	Varanasi M.Corp.	40	-	2-5	-	456	5	Y	-
22	Visakhapatnam M.Corp.	91	-	2	-	600	20	Y	-

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
<b>Class I</b>									
<b>Andhra Pradesh</b>									
1	Anantapur MCI	7	-	4	-	108	10	N	Private workshop
2	Chittoor M	7	-	6	-	70	60	N	Private workshop
3	Cuddapah MCI	8	-	4-6	-	73	10	N	Private workshop
4	Eluru M	10	50	5	5	146	15	N	Private workshop
5	Guntur MCI	27	20	4	4	250	10	Y	Municipal workshop
6	Hindupur M	4	-	6	-	70	10	N	Private workshop
7	Kakinada M	14	22	4	1-4	142	15	N	Private workshop
8	Kurnool MCI	11	-	3-6	-	90	10	N	Private workshop
9	Machilipatnam M	4	26	4	3	50	20	N	Private workshop
10	Nandyal MCI	4	105	2	2	60	10	N	Private workshop
11	Nellore MCI	29	-	2-4	-	165	12	N	Private workshop
12	Nizamabad M	9	-	4-6	-	88	30	N	Private workshop
13	Ongole MCI	10	-	5-6	-	90	20	N	Private workshop
14	Qutubullapur M	6	-	4	-	69	2	N	State govt. agency
15	Rajahmundry M.Corp.	23	-	5	-	193	15	N	Private workshop
16	Tenali M	5	-	8	-	80	15	N	Private workshop
17	Tirupati MCI	15	-	3-4	-	130	15	N	Private workshop
18	Vijaywada M.Corp.	48	-	2-5	-	465	10	Y	Municipal workshop
19	Warangal M.Corp.	20	130	3	2	177	10	N	Private workshop
<b>Bihar</b>									
20	Bihar Sharif M	4	n.a.	6	n.a.	50	50	N	Private workshop
21	Chhapra M	6	-	3	-	66	5	N	Private workshop
22	Gaya M.Corp.	9	-	4-6	-	80	70	Y	Private workshop
23	Katihar M	5	n.a.	5	n.a.	45	20	N	Private workshop
24	Munger M	8	-	5	-	50	10	Y	n.a.
25	Ranchi M.Corp.	12	-	6-10	-	34	5	Y	Private workshop
<b>Gujarat</b>									
26	Anand M	10	-	4	-	10	10	Y	Municipal workshop
27	Bharuch M	16	-	4-10	-	84	20	N	n.a.
28	Bhavnagar M.Corp.	38	-	1-2	-	115	10	Y	Municipal workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
29	Bhuj M	8	16	4	4	40	10	N	Private workshop
30	Jamnagar M.Corp.	23	14	3-5	7	300	10	Y	Municipal workshop
31	Junagadh M	6	-	15	-	75	10	Y	Municipal workshop
32	Nadiad M	9	-	2-4	-	60	15	N	Private workshop
33	Navsari M	6	-	4-7	-	31	20	N	Private workshop
34	Porbandar M	10	-	4	-	22	30	N	Private workshop
35	Rajkot M.Corp.	35	-	4-6	-	425	20	Y	Municipal workshop
36	Surendranagar M	5	-	4	-	30	10	Y	Municipal workshop
	<b>Haryana</b>								
37	Ambala MCI	5	5	5	4	30	20	N	Private workshop
38	Faridabad M.Corp.	39	-	3	-	480	30	Y	Municipal workshop
39	Gurgaon MCI	4	-	3	-	80	10	N	Private workshop
40	Hissar MCI	8	-	4	-	32	50	N	Private workshop
41	Karnal MCI	8	20	4	2	52	25	N	Private workshop
42	Rohtak MCI	10	-	1-3	-	28	10	N	Private workshop
	<b>Jammu &amp; Kashmir</b>								
43	Jammu M.Corp.	21	-	5-6	-	288	10	Y	Municipal workshop
44	Srinagar M.Corp.	33	1500	2-8		200	10	Y	Municipal workshop
	<b>Karnataka</b>								
45	Belgaum M.Corp.	14	-	2	-	100	n.a.	N	Private workshop
46	Bellary CMC	5	-	4	-	50	n.a.	N	Private workshop
47	Davangere MCI	12	-	3	-	77	n.a.	Y	Municipal workshop
48	Gadag-Betigeri CMC	6	-	5	-	60	0	N	Private workshop
49	Gulbarga M.Corp.	11	-	3	-	76	n.a.	N	Private workshop
50	Hubli-Dharwad M.Corp.	27	-	3-5	-	220	10	N	Private workshop
51	Mandya M	5	-	2-3	-	25	n.a.	N	Private workshop
52	Mangalore M.Corp.	10	-	3	-	69	0	N	Private workshop
53	Mysore M.Corp.	28	8	3	4	202	5	N	Private workshop
54	Shimoga CMC	18	-	2-3	-	72	0	N	Private workshop
55	Tumkur M	8	150	4	n.a.	84	10	N	Private workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
	<b>Kerala</b>								
56	Alappuzha MC	4	-	1-2	-	20	0	N	Private workshop
57	Kollam MC	12	-	1-2	-	58	10	N	Private workshop
58	Kozhikode M.Corp.	22	-	4	-	152	10	N	Private workshop
59	Thalassery M	5	-	2-3	-	30	20	N	Private workshop
60	Thiruvananthapuram M.Corp.	44	-	1-3	-	250	15	N	Private workshop
	<b>Madhya Pradesh</b>								
61	Bhind M	22	-	2-3	-	24	n.a.	N	Private workshop
62	Burhanpur M.Corp.	8	-	2-5	-	60	10	N	n.a.
63	Dewas M.Corp.	10	-	1-3	-	39	10	N	n.a.
64	Guna M	7	-	2	-	18	20	N	Private workshop
65	Gwalior M.Corp.	32	-	2-4	-	280	5	Y	Municipal workshop
66	Jabalpur M.Corp.	25	-	5-8	-	298	30	N	n.a.
67	Khandwa M	5	-	1-2	-	20	n.a.	N	Private workshop
68	Morena M	6	-	2-3	-	44	10	N	Private workshop
69	Murwara-Katni M.Corp.	5	-	3-5	-	63	20	Y	Municipal workshop
70	Ratlam M.Corp.	4	-	3-6	-	35	n.a.	Y	Municipal workshop
71	Rewa M.Corp.	5	-	4	-	40	20	N	Private workshop
72	Satna M.Corp.	14	-	2-8	-	50	10	Y	Municipal workshop
73	Shivpuri M	4	-	3	-	18	10	N	n.a.
	<b>Maharashtra</b>								
74	Amravati M.Corp.	14	-	4	-	96	n.a.	N	n.a.
75	Aurangabad M.Corp.	27	-	3	2-3	340	n.a.	Y	Municipal workshop
76	Bhusawal M.Cl.	5	-	6	-	30	10	N	Private workshop
77	Chandrapur MCl	14	-	1-3	-	110	2	N	Private workshop
78	Dhule MCl	8	-	1-12	-	30	20	N	Private workshop
79	Ichalkaranji MCl	15	-	5	-	150	n.a.	Y	Municipal workshop
80	Jalgaon MCl	24	-	3-4	-	220	10	N	Private workshop
81	Kolhapur M.Corp.	18	-	2	-	115	20	Y	Municipal workshop
82	Nanded Waghala M.Corp.	13	-	3	-	90	10	N	Private workshop
83	Nashik M.Corp.	89	7	2	4	279	2	Y	Municipal workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
84	Parbhani MCI	8	-	3	-	72	25	N	Private workshop
85	Solapur M.Corp.	26	-	5-6	-	353	5	Y	Municipal workshop
86	Wardha M	6	-	2	-	40	0	N	Private workshop
87	Yavatmal MCI	8	-	1	-	10	10	N	Private workshop
	<b>Orissa</b>								
88	Bhubaneswar M.Corp.	18	-	n.a.	-	n.a.	n.a.	N	Private workshop
89	Cuttack M.Corp.	20	-	3-5	-	n.a.	3	N	Private workshop
90	Puri M	9	-	4	-	n.a.	n.a.	N	Private workshop
91	Rourkela M	6	-	4	-	n.a.	n.a.	N	Private workshop
92	Sambalpur M	7	-	3	-	n.a.	n.a.	N	Private workshop
	<b>Punjab</b>								
93	Amritsar M.Corp.	74	-	4-7	-	510	2	Y	Municipal workshop
94	Bathinda MCI	10	-	3	-	95	10	N	Private workshop
95	Hoshiarpur MCI	4	-	2-10	-	33	0	N	Private workshop
96	Jalandhar M. Corp.	54	-	2-5	-	236	5	Y	Municipal workshop
97	Moga MCI	7	-	2	-	36	20	N	Private workshop
98	Pathankot MCI	38	-	1-2	-	23	8	N	Private workshop
99	Patiala M.Corp.	36	-	1-2	-	80	0	N	Private workshop
	<b>Rajasthan</b>								
100	Ajmer MCI	28	-	6	-	250	10	N	Private workshop
101	Alwar M	22	-	1-5	-	100	10	Y	Municipal workshop
102	Beawar M	3	-	8	-	42	n.a.	Y	Municipal workshop
103	Bhilwara M	10	-	3	-	58	10	Y	Municipal workshop
104	Bikaner M	13	-	6	-	180	10	Y	Municipal workshop
105	Jodhpur M.Corp.	57	-	2-3	-	308	12	Y	Municipal workshop
106	Kota M.Corp.	30	-	3	-	120	20	N	n.a.
107	Sriganganagar M	9	-	1-2	-	24	5	N	Private workshop
	<b>Tamil Nadu</b>								
108	Cuddalore M	9	-	3	-	59	0	N	Private workshop
109	Dindigul M	11	-	1-2	-	17	10	N	Private workshop
110	Erode M	10	25	3-4	2	85	10	N	Private workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
111	Kanchipuram M	8	10	3	1	19	15	N	Private workshop
112	Kumbakonam M	13	10	3-4	4	40	n.a.	N	Private workshop
113	Nagercoil M	9	-	2	-	30	0	N	Private workshop
114	Rajapalayam M	11	-	2	-	43	20	N	Private workshop
115	Salem M.Corp.	68	-	3	-	214	n.a.	N	Private workshop
116	Thanjavur M	14	-	2	-	34	15	N	Private workshop
117	Tiruchirapalli M.Corp.	46	-	2-4	-	280	10	N	Private workshop
118	Tirunelveli M.Corp.	26	-	3	-	87	20	N	Private workshop
119	Tirunvannamalai M	10	-	2-3	-	32	30	N	Private workshop
120	Tiruppur M	20	-	2-3	-	100	n.a.	Y	Municipal workshop
121	Tuticorin M	14	-	1-2	-	25	20	Y	Municipal workshop
122	Vellore M	12	-	1-2	-	35	25	N	Private workshop
	<b>Uttar Pradesh</b>								
123	Agra M.Corp.	36	-	5-7	-	430	n.a.	Y	Municipal workshop
124	Aligarh M.Corp.	33	-	2-3	-	275	22	Y	Municipal workshop
125	Allahabad M.Corp.	22	-	2-4	-	250	30	Y	Municipal workshop
126	Bareilly M.Corp.	33	-	1-5	-	320	1	Y	Municipal workshop
127	Etawah MB	5	-	4	-	27	28	N	Private workshop
128	Faizabad MB	4	-	5	-	54	50	N	Private workshop
129	Firozabad MB	11	-	3-6	-	144	15	N	Private workshop
130	Ghaziabad M.Corp.	31	-	3-6	-	300	25	N	Private workshop
131	Gorakhpur M.Corp.	29	-	2-4	-	238	10	N	Private workshop
132	Haldwani-cum-Kathgodam MB	4	-	10	-	38	25	N	Private workshop
133	Hapur MB	4	-	5	-	70	10	N	Private workshop
134	Hardwar MB	35	-	1-6	-	182	8	Y	Municipal workshop
135	Jhansi MB	14	-	4-5	-	134	30	Y	Municipal workshop
136	Mathura MB	10	25	2-6	2	150	5	Y	Municipal workshop
137	Meerut M.Corp.	35	-	4-5	-	500	10	Y	Municipal workshop
138	Mirzapur MB	18	105	2-5	n.a	85	10	Y	Municipal workshop
139	Moradabad M.Corp.	17	-	6-7	-	300	1	Y	Municipal workshop
140	Muzaffarnagar MB	10	-	3-6	-	130	5	N	Private workshop
141	Rae Bareli MB	4	-	6	-	66	5	N	Private workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
142	Rampur MB	20	-	6	-	120	2	Y	Municipal workshop
143	Saharanpur MB	27	-	2	-	200	30	N	Private workshop
144	Sitapur MB	17	-	2-4	-	70	10	N	Private workshop
145	Unnao MB	2	-	4	-	8	50	N	Private workshop
	<b>West Bengal</b>								
146	Asansol M.Corp.	23	-	3	-	60	n.a.	N	n.a.
147	Baharampur M	13	-	3	-	81	2	Y	Municipal workshop
148	Balurghat M	3	-	3-5	-	33	10	N	Private workshop
149	Bankura M	6	20	1	1	26	n.a.	Y	Municipal workshop
150	Barasat M	5	-	3	-	24	30	N	Private workshop
151	Burdwan M	8	-	2-4	-	75	15	Y	Municipal workshop
152	Halisahar M	3	-	3	-	17	n.a.	N	Private workshop
153	Krishna Nagar M	5	-	3-4	-	37	30	Y	Municipal workshop
154	Midnapur M	5	-	2-5	-	53	15	N	Private workshop
155	North Barrackpur M	6	-	3	-	40	n.a.	N	Private workshop
156	Santipur M	6	-	2-4	-	33	1	Y	Municipal workshop
157	Siliguri M.Corp.	26	-	3	-	150	n.a.	N	n.a.
	<b>Small States</b>								
	<b>Assam</b>								
158	Guwahati M.Corp.	Privatised	-	-	-	240	n.app	N	Private workshop
159	Jorhat MB	5	-	3	-	14	n.a.	N	Private workshop
	<b>Manipur</b>								
160	Imphal MCI	10	-	2-4	-	38	70	Y	Municipal workshop
	<b>Meghalaya</b>								
161	Shillong MB	10	-	1	-	78	20	N	Private workshop
	<b>Tripura</b>								
162	Agartala MCI	12	-	2-4	-	60	20	n.a.	n.a.
	<b>Union Territories</b>								
163	Chandigarh M.Corp.	45	-	2-4	-	280	5	N	Private workshop
164	Pondicherry M	18	-	2-4	-	114	20	Y	Municipal workshop

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
<b>Class II</b>									
<b>Andhra Pradesh</b>									
1	Anakapalle M	13	-	1-3	-	55	25	N	Private workshop
2	Dharmavaram M	2	-	3	-	9	0	N	Private workshop
3	Gudur MCI	3	-	5	-	18	30	N	Private workshop
4	Kapra M	9	-	4-6	-	45	2	N	Private workshop
5	Kavali MCI	3	-	4	-	24	30	N	Private workshop
6	Madanapalle M	6	-	1-2	-	20	n.a.	N	Private workshop
7	Narasaraopet M	7	9	1-3	5	42	15	N	Private workshop
8	Rajendra Nagar MCI	3	-	2-3	-	9	20	N	Private workshop
9	Sangareddy MCI	5	-	2-3	-	14	20	N	Private workshop
10	Srikakulam MCI	5	16	4	3	25	n.a.	N	Private workshop
11	Srikalahasti M	3	-	6	-	24	0	N	Private workshop
12	Suryapet MCI	4	-	5	-	30	25	N	Private workshop
<b>Bihar</b>									
13	Buxar M	2	-	2	-	12	25	N	Private workshop
14	Deoghar M	1	n.a.	6	n.a.	10	10	N	Private workshop
15	Hajipur M	3	-	2	-	24	5	N	Private workshop
16	Hazaribagh M	6	-	3	-	36	25	N	Private workshop
17	Jehanabad M	1	-	4	-	10	30	N	Private workshop
18	Madhubani M	4	-	4	-	15	10	N	Private workshop
19	Mokama M	1	-	4	-	4	n.a.	N	Private workshop
<b>Gujarat</b>									
20	Amreli M	4	-	7	-	30	15	Y	Municipal workshop
21	Ankleswar M	3	-	2	-	6	5	N	n.a.
22	Dabhoi M	1	-	6	-	18	0	N	Municipal Mechanic
23	Dohad M	4	-	1-2	-	4	10	N	Private workshop
24	Gondal M	9	27	2	2	10	0	Y	Municipal workshop
25	Jetpur M	3	24	8	7	40	0	Y	Municipal workshop
26	Mahesana M	5	-	1-2	-	8	10	Y	Municipal workshop
27	Palanpur M	5	-	3	-	40	10	Y	Municipal workshop
<b>Haryana</b>									
28	Jind MCI	3	na	4	-	18	10	N	Private workshop
29	Kaithal MCI	4	-	3	-	12	20	N	Private workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
30	Rewari MCI	4	-	12	-	16	10	N	Private workshop
31	Thanesar MCI	5	3	1-3	3	24	10	N	Private workshop
	<b>Karnataka</b>								
32	Bagalkot CMC	4	-	2	-	13	n.a.	N	Private workshop
33	Chikmagalur CMC	4	-	2	-	18	0	N	Private workshop
34	Gokak CMC	4	-	1-2	-	7	0	N	Private workshop
35	Hospet CMC	5	-	5	-	31	n.a.	N	Private workshop
36	Kolar CMC	5	-	3-4	-	15	30	N	Private workshop
37	Rabkavi-Banhatti CMC	Privatised	-	-	-	Auctioned	n.app	N	Private workshop
38	Ramanagaram CMC	4	-	2-3	-	10	50	N	Private workshop
	<b>Kerala</b>								
39	Changanessary MC	n.a.	n.a.	n.a.	n.a.	12	n.a.	n.a.	n.a.
40	Payyanur M	1	-	2	-	4	0	N	Private workshop
41	Taliparamba M	1	-	1	-	3	0	N	Private workshop
42	Thrissur MC	15	-	1-2	-	35	0	N	Private workshop
	<b>Madhya Pradesh</b>								
43	Hoshangabad M	2	-	5	-	15	50	N	Private workshop
44	Itarsi M	6	-	1-2	-	15	30	Y	Municipal workshop
45	Khargone M	3	-	2	-	6	n.a.	N	n.a.
46	Mandsaur M	4	-	2	-	26	25	Y	Municipal workshop
47	Nagda M	2	-	1-3	-	10	n.a.	N	Private workshop
48	Neemuch M	6	-	2	-	8	n.a.	Y	Municipal workshop
49	Sehore M	4	-	4	-	30	25	N	Private workshop
50	Shahdol M	4	-	3	-	9	20	N	Private workshop
51	Vidisha M	5	-	4	-	10	10	N	Private workshop
	<b>Maharashtra</b>								
52	Amalner MCI	4	-	2-3	-	6	n.a.	N	Private workshop
53	Ballarpur MCI	5	-	1-2	-	18	10	N	n.a.
54	Bhandara M	5	-	1-2	-	12	10	N	Private workshop
55	Kamptee MCI	3	-	10	-	40	25	N	Private workshop
56	Manmad MCI	3	-	2-10	-	5	2	N	Private workshop
57	Ratnagiri MCI	4	-	2	-	22	10	Y	Municipal workshop
58	Satara MCI	3	-	3	-	17	0	Y	Municipal workshop
59	Virar MCI	9	-	2	-	50	0	N	Private workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
	<b>Punjab</b>								
60	Ferozepur MCI	5	-	4	-	40	20	N	Private workshop
61	Kapurthala M	4	-	3	-	10	n.a.	N	Private workshop
62	Mansa MCI	3	-	6	-	27	n.a.	N	Private workshop
63	Phagwara MCI	5	-	2	-	14	0	N	Private workshop
64	Sangrur MCI	3	-	2	-	15	25	N	Private workshop
	<b>Rajasthan</b>								
65	Banswara M	5	-	n.a.	-	25	n.a.	Y	Municipal workshop
66	Barmer M	6	-	1-3	-	18	30	N	Private workshop
67	Bundi M	3	-	4	-	24	0	Y	Municipal workshop
68	Churu M	4	15	2	2	30	10	N	Private workshop
69	Hanumangarh M	8	-	4	-	43	4	N	Private workshop
70	Sawai Madhopur M	4	-	1	-	4	25	N	Private workshop
	<b>Tamil Nadu</b>								
71	Ambur M	5	12	3	3	13	20	Y	Municipal workshop
72	Arakkonam M	5	6	1	3	11	0	N	Private workshop
73	Attur M	4	-	2	-	10	10	N	Private workshop
74	Cumbum M	3	13	2	2	4	15	N	Private workshop
75	Dharmapuri M	2	19	2	1	11	30	N	Private workshop
76	Gudiyatham M	2	-	3	-	16	10	N	Private workshop
77	Nagapattinam M	4	-	4	-	25	0	N	Private workshop
78	Pudukkottai M	7	-	2	-	20	10	N	Private workshop
79	Sivakasi M	9	-	1	-	5	25	N	Private workshop
80	Srivilliputtur M	4	-	2	-	20	25	N	Private workshop
81	Tindivanam M	5	-	2	-	12	15	N	Private workshop
82	Udhagamandalam M	7	-	2	-	7	30	N	Private workshop
	<b>Uttar Pradesh</b>								
83	Auraiya MB	2	-	7	-	21	10	N	Private workshop
84	Balrampur MB	3	-	2	-	20	10	N	Private workshop
85	Basti MB	5	-	2	-	35	20	N	Private workshop
86	Bhadohi MB	2	20	8	5	40	5	N	Private workshop
87	Chandpur MB	2	14	3	2	5	10	N	Private workshop
88	Etah MB	3	-	4-8	-	40	25	N	Private workshop
89	Ghazipur MB	4	-	3	-	27	10	N	Private workshop
90	Gonda MB	3	-	3	-	25	10	N	Private workshop

**Status of Municipal Solid Waste Management**  
**C-3: Transportation of Solid Waste, 1999**

Sl. No.	City/Town	No. of vehicles used for transportation		Average trips per vehicle per day		Approx. waste (MT) transported daily	% of vehicles usually under repair	Vehicle maintenance workshop	
		Motorized	Non- motorized	Motorized	Non- motorized			Yes / No	Place
	1	2	3	4	5	6	7	8	9
91	Lakhimpur MB	3	-	2-6	-	35	10	N	Private workshop
92	Lalitpur MB	5	-	2-3	-	54	5	N	Private workshop
93	Mughalsarai MB	5	-	2-3	-	48	5	N	Private workshop
94	Nawabganj-Barabanki MB	3	-	2	-	6	35	N	Private workshop
95	Orai MB	3	50	5	8	29	30	N	Private workshop
96	Roorkee MB	3	-	3	-	27	20	N	Private workshop
	<b>West Bengal</b>								
97	Bishnupur M	2	30	2	1	13	25	N	Private workshop
98	Chakdaha M	1	8	2	4	7	3	N	Private workshop
99	Contai M	9	-	1-2	-	9	22	N	n.a.
100	Cooch Behar M	7	20	2-3	2	21	60	Y	Municipal workshop
101	Darjeeling M	n.a.	-	3	-	30	25	Y	Municipal workshop
102	Jalpaiguri M	5	-	1-3	-	20	20	N	Private workshop
103	Jangipur M	2	-	3	-	18	n.a.	N	Private workshop
104	Katwa M	6	-	3	-	36	n.a.	Y	Municipal workshop
105	Raniganj M	7	-	3	-	41	33	N	Private workshop
	<b>Small States</b>								
	<b>Himachal Pradesh</b>								
106	Shimla M.Corp.	8	-	3	-	35	2	N	Private workshop
	<b>Nagaland</b>								
107	Kohima TC	4	-	2-4	-	22	n.a.	N	Private workshop
	<b>Union Territories</b>								
108	Port Blair MCI	8	-	2-3	-	44	15	Y	Municipal workshop
	<b>Others(Smaller than Class II towns)</b>								
	<b>Small States</b>								
	<b>Goa</b>								
109	Panaji MCI	8	-	2	-	11	10	Y	Municipal workshop
	<b>Sikkim</b>								
110	Gangtok (Greater Gangtok) NTAC	7	-	1	-	35	n.a.	Y	Municipal workshop
	<b>Union Territories</b>								
111	Daman MCI	5	-	1-2	-	11	10	N	Private workshop
112	Silvassa CT	2	-	2	-	4	0	N	Private workshop

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
<b>Metropolitan Cities</b>						
1	Ahmedabad M.Corp.	JCB	41	n.a.	2-3	563
		Truck	3		7	19
		Tipper	20		2-3	126
		Dumper	27		1-5	143
		Compact Machine	1		3	15
		<b>Total</b>				
2	Bangalore M.Corp.	Tipplers	90	5	1	400
		Truck	226	4	2	1800
		<b>Total</b>				<b>2200</b>
3	Bhopal M.Corp.	Truck	23	4	2	161
		Compactor	4	5	2	40
		Dumper	9	3	2	45
		Tractor Trolley	11	3	2	66
		Tipper	4	4	2	28
		Others*	10			20
		<b>Total</b>				<b>360</b>
4	Calcutta M.Corp.	Truck	163	n.a.		
		Dumper	52			
		Tractor Trolley/Trailer	10			
		<b>Total</b>				
5	Chennai M.Corp.	Truck	230	n.a.	2	n.a.
		Truck	120		3	
		Autos	75		4	
		<b>Total</b>				
6	Coimbatore M.Corp.	Truck	24	n.a.	3	n.a.
		Tractor Trolley	2		3	
		Tipplers	26		3	
		JCB	16		3	
		Dumper	16		3	
		<b>Total</b>				
7	Delhi M.Corp.	Tractor Trolley	2	3	3	15
		Tipper truck	558	4	3	5485
		<b>Total</b>				<b>5500</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
8	Greater Mumbai M.Corp.	Mobile compactors	146	8	1	1168
		Skip vehicles	123	3	1	308
		Dumpers	82	4	1	328
		Dumpers (private)	606	4	1	2424
		Others *	216	n.a.	n.a.	1772
		<b>Total</b>				
9	Hyderabad M.Corp.	Dumper	45	3	5	563
		Tipper	90	4	3	945
		Large compactors	12	8	3	288
		Small compactors	12	3	2	60
		Power tiller	16	1	2	32
		<b>Total</b>				
10	Indore M.Corp.	Tippers	n.a.	n.a.	3	n.a.
		Dumper			n.a.	
		<b>Total</b>				
11	Jaipur M.Corp.	Dumpers	12	4	3	144
		Canter	52	4	3	624
		JCB	4	n.a.	n.a.	n.a.
		<b>Total</b>				<b>768</b>
12	Kanpur M.Corp.	Tippers	40	5	3	600
		Truck	28	3	3	252
		Tractor Trolley	35	2	3-4	250
		<b>Total</b>				<b>1102</b>
13	Kochi M.Corp.	Tractor Trolley	11	4	2	77
		Truck	6	6	2	72
		Tippers	2	7	3	42
		Dumper	12	1	2	24
		Auto-trailer	9	0.5	2	9
		Side load lorry & JCB	3	5	n.a.	30
		<b>Total</b>				<b>254</b>
14	Lucknow M.Corp.	Tippers	30	4	5	600
		Refuse Collector	5	5	8	200
		Refuse collector	1	5	10	50
		<b>Total</b>				<b>850</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
15	Ludhiana M.Corp.	Tipppers	27	5	5	608
		Dumper placer	25	1.5	4	150
		Tractor Trolley	9	1.5	2	27
		H. Tugger	4	1.5	15	90
		<b>Total</b>				
16	Madurai M.Corp.	Truck	11	3	3	99
		Tractor Trolley/Trailer	4	3	3	30
		Tipppers	13	n.a.	3	60
		Mini-Truck	4	1.5	3	18
		Truck (hired)	27	3	3	243
		<b>Total</b>				
17	Nagpur M.Corp.	Truck	30	5	2	300
		Tipppers	6	3	3	54
		Truck (hired)	20	3	3	144
		Tractor Trolley	2	0.5	2	2
		<b>Total</b>				
18	Pune M.Corp.	Dumper placer	70	1.5	4	420
		Tipppers	52	3	3	460
		Compactor	1	10	2	20
		<b>Total</b>				
19	Surat M.Corp.	Dumper trucks	38	6	2	456
		Dumper placer	57	2	2	228
		Tractor Trailer	28	3	3	252
		Tipper	1	6	4	24
		<b>Total</b>				
20	Vadodara M.Corp.	Dumper placer	22	1.5	7	230
		Tipppers	15	5	2	150
		Pick-up van	10	3	2	60
		<b>Total</b>				
21	Varanasi M.Corp.	Tipper truck	12	5	3	180
		Tractor Trolley	16	3	5	240
		Dumper placer	4	1.5	2	12
		JCB	3	2	n.a.	24
		<b>Total</b>				

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
22	Visakhapatnam M.Corp.	Van	33	3	2	198
		Tractors	27	3	2	135
		Tipper	15	6	2	180
		Mini-Truck	2	4	2	16
		Truck	1	6	2	12
		Dumper	12	2	n.a.	48
		Compactor	1	6	2	12
		<b>Total</b>				

Note : Data for average waste transported was furnished by the respective urban local bodies. The number of vehicles, multiplied by the average capacity and number of trips may not add up to the waste transported.

"Others" include stationary compactors, tempo private, dumpers private, bulk refuse carrier

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
<b>Class I</b>						
<b>Andhra Pradesh</b>						
1	Anantapur MCI	Tractor	4	3	4	48
		Tipper	3	5	4	60
		<b>Total</b>				<b>108</b>
2	Chittoor M	Tractor	2	4	6	40
		Truck (privatised)	2	3	6	30
		<b>Total</b>				<b>70</b>
3	Cuddapah MCI	Tractor (private)	7	1.5	6	63
		Tractor (own)	1	3	4	10
		<b>Total</b>				<b>73</b>
4	Eluru M	Tractor	10	2	5	100
		Bullock Carts	50	0.2	5	46
		<b>Total</b>				<b>146</b>
5	Guntur MCI	Truck	3	4	4	48
		Tractor	24	2	4	192
		Rickshaw	20	0.1	4	10
		<b>Total</b>				<b>250</b>
6	Hindupur M	Tractor	4	3	6	70
		<b>Total</b>				<b>70</b>
7	Kakinada M	Tractor	14	2	4	112
		Others	12	3	1	30
		<b>Total</b>				<b>142</b>
8	Kurnool MCI	Tipper	1	2	3	n.a.
		Tractor	10	1.5	6	
		<b>Total</b>				
9	Machilipatnam M	Tractor	4	2	4	31
		Bullock Carts	26	0.3	3	20
		<b>Total</b>				<b>50</b>
10	Nandyal MCI	Wheel barrow	104	0.3	2	52
		Tractor	4	1	2	8
		<b>Total</b>				<b>60</b>
11	Nellore MCI	Truck	1	5	2	9
		Tractor	26	1.5	4	156
		<b>Total</b>				<b>165</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
12	Nizamabad M	Tractor	4	3	5	60
		Truck	1	7	4	28
		<b>Total</b>				<b>88</b>
13	Ongole MCI	Tractor	5	3	6	90
		<b>Total</b>				<b>90</b>
14	Qutubullapur M	Truck	5	3	4	60
		Tractor Trolley	1	3	3	9
		<b>Total</b>				<b>69</b>
15	Rajahmundry M.Corp.	Tractor	19	2	5	193
		<b>Total</b>				<b>193</b>
16	Tenali M	Tractor	5	2	8	80
		<b>Total</b>				<b>80</b>
17	Tirupati MCI	Truck	1	4	3	12
		Tractor	6	2	4	54
		Tractor (hired)	8	2	4	64
		<b>Total</b>				<b>130</b>
18	Vijaywada M.Corp.	Van	13	3	5	195
		Tipper	20	3	2	120
		Tractor	15	2	5	150
		<b>Total</b>				<b>465</b>
19	Warangal M.Corp.	Tractor	19	3	3	171
		JCB	1	3	2	6
		<b>Total</b>				<b>177</b>
<b>Bihar</b>						
20	Bihar Sharif M	Tractor	4	1	6	24
		Handcarts	n.a.	n.a.	n.a.	26
		<b>Total</b>				<b>50</b>
21	Chhapra M	Tractor	6	4	3	72
		<b>Total</b>				<b>72</b>
22	Gaya M.Corp.	Loader	1	2	6	12
		Dumper	2	1.5	4	12
		Tractor	7	2	4	56
		<b>Total</b>				<b>80</b>
23	Katihar M	Tractor	5	1.5	5	38
		Handcarts	n.a.	n.a.	n.a.	8
		<b>Total</b>				<b>45</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
24	Munger M	Tractor	7	1.5	5	53
		<b>Total</b>				<b>53</b>
25	Ranchi M.Corp.	Tractor	11	n.a.	6	n.a.
		Dumper placer	1		10	
		<b>Total</b>				<b>34</b>
<b>Gujarat</b>						
26	Anand M	Wheel barrow	13	n.a.	4	3
		Truck	2	n.a.	4	4
		Tractor Trolley	1	1.5	2	3
		<b>Total</b>				<b>10</b>
27	Bharuch M	Tractor	1	1	4	4
		Truck	1	5	4	20
		Dumper	3	3	4	30
		Tempo	6	0.5	10	30
		<b>Total</b>				<b>84</b>
28	Bhavnagar M.Corp.	Refuse Collector	4	7	1	28
		Truck	2	5	1	10
		Tractor Trolley	32	1.2	2	77
		<b>Total</b>				<b>115</b>
29	Bhuj M	Tractor Trolley	4	1.5	4	24
		Bullock Carts	3	n.a.	4	2
		Tractor(Hired)	4	1.5	2	12
		Donkey cart (Hired)	13	n.a.	4	2
		<b>Total</b>				<b>40</b>
30	Jamnagar M.Corp.	Tractor	17	3	3	153
		Container Carrier	3	3	5	45
		Rickshaw	14	1.1	7	105
		<b>Total</b>				<b>303</b>
31	Junagadh M	Tractor	5	1	15	75
		<b>Total</b>				<b>75</b>
32	Nadiad M	Truck	2	n.a.	n.a.	29
		Tractor Trolley	2	1	2	4
		Tipppers	3	2	4	24
		Rickshaw	2	0.5	3	3
		<b>Total</b>				<b>60</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
33	Navsari M	Tipplers	1	2	6	12
		Tractor	3	1.5	4	18
		Tricycle	5	n.a.	4	1
		<b>Total</b>				<b>31</b>
34	Porbandar M	Tractor	6	n.a.	4	11
		Truck	4		4	11
		<b>Total</b>				<b>22</b>
35	Rajkot M.Corp.	Truck	16	3	6	240
		Tipplers	8	4	4	128
		Others (Geep)	10	1.5	4	60
		<b>Total</b>				<b>428</b>
36	Surendranagar M	Tractor	5	1.5	4	30
		<b>Total</b>				<b>30</b>
<b>Haryana</b>						
37	Ambala MCI	Tractor Trolley	5	1	5	25
		Carts	5	0.05	20	5
		<b>Total</b>				<b>30</b>
38	Faridabad M.Corp.	Refuse Collector	3	7	3	63
		Truck	3	3	3	27
		Dumper	3	2	3	18
		Tractor Trolley	30	n.a.	n.a.	372
		<b>Total</b>				<b>480</b>
39	Gurgaon MCI	Refuse Collector	1	15	3	45
		Tractor Trolley	3	2	3	18
		Loader	2	n.a.	n.a.	17
		<b>Total</b>				<b>80</b>
40	Hissar MCI	Tractor Trolley	8	1	4	32
		<b>Total</b>				<b>32</b>
41	Karnal MCI	Tractor	8	1	4	32
		Rickshaw	20	0.1	10	20
		<b>Total</b>				<b>52</b>
42	Rohtak MCI	Truck	2	2	3	12
		Tractor Trolley	8	2	1	16
		<b>Total</b>				<b>28</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
	<b>Jammu &amp; Kashmir</b>					
43	Jammu M.Corp.	Tractor	12	3	5	180
		Trolley	9	2	6	108
		<b>Total</b>				<b>288</b>
44	Srinagar M.Corp	Trippers/Trucks	18	0.5	3	27
		Dumper Placer	12	1.5	8	144
		Tractor Trolley	2	6	2	24
		Compacter	1	16	2	32
		<b>Total</b>				<b>227</b>
	<b>Karnataka</b>					
45	Belgaum M.Corp.	Tipper (Big)	4	6	2	44
		Truck	10	3	2	56
		<b>Total</b>				<b>100</b>
46	Bellary CMC	Truck	5	3	4	50
		<b>Total</b>				<b>50</b>
47	Davangere MCI	Tractor	7	1.5	3	32
		Truck	5	3	3	45
		<b>Total</b>				<b>77</b>
48	Gadag-Betigeri CMC	Tractor Trolley	6	2	5	60
		<b>Total</b>				<b>60</b>
49	Gulbarga M.Corp.	Truck	7	3	3	53
		Tractor	4	2	3	24
		<b>Total</b>				<b>77</b>
50	Hubli-Dharwad M.Corp.	Truck	19	3	3	171
		Tractor Trolley	8	1.3	5	50
		<b>Total</b>				<b>221</b>
51	Mandya M	Tractor	3	2	3	18
		Truck	2	2	2	8
		<b>Total</b>				<b>26</b>
52	Mangalore M.Corp.	Truck	6	3	3	45
		Tractor	3	2	3	18
		Mini-Truck	1	2	3	6
		<b>Total</b>				<b>69</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
53	Mysore M.Corp.	Truck	16	3	3	120
		Tractor	7	2	3	42
		Mini-Truck	5	2	3	30
		Carts	8	0.3	5	10
		<b>Total</b>				
54	Shimoga CMC	Tractor	11	n.a.	3	41
		Truck	3	3	3	27
		Power tiller	4	1.5	2	12
		<b>Total</b>				
55	Tumkur M	Tractor	7	3	4	84
		<b>Total</b>				
<b>Kerala</b>						
56	Alappuzha MC	Tippers	2	2	1	4
		Truck	2	4	2	16
		<b>Total</b>				
57	Kollam MC	Truck	3	5	1	15
		Tractor	9	3	2	45
		<b>Total</b>				
58	Kozhikode M.Corp.	Truck	2	3	4	24
		Excavator	2	2	4	16
		Tractor	14	2	4	112
		<b>Total</b>				
5	Thalaserry M	Tractor	2	3	3	15
		Tiller	2	1.5	3	9
		Truck	1	3	2	6
		<b>Total</b>				
60	Thiruvananthapuram M.Corp.	Truck	16	5	2	160
		Tractor	8	3	3	60
		Truck	20	1.5	1	30
		<b>Total</b>				
<b>Madhya Pradesh</b>						
61	Bhind M	Tipper	1	4	3	12
		Tractor trolley	5	1	2	10
		Wheel barrow	6	0.2	2	2
		<b>Total</b>				

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
62	Burhanpur M.Corp.	Truck	2	3	5	25
		Tractor trolley	4	3	3	30
		Auto	2	0.5	2	2
		<b>Total</b>				<b>57</b>
63	Dewas M.Corp.	Tractor trolley	1	2	3	6
		Truck	3	3	3	27
		Dumper	6	1	1	6
		<b>Total</b>				<b>39</b>
64	Guna M	Tractor trolley	4	1	2	8
		Dumper	3	1.5	2	9
		<b>Total</b>				<b>17</b>
65	Gwalior M.Corp.	Truck	7	5	4	140
		Container	2	2	4	16
		Tractor	20	1.5	3	90
		Refuse Collector	2	8	2	32
		Tipper	1	1	4	4
		<b>Total</b>				<b>282</b>
66	Jabalpur M.Corp.	Tractor	13	2	5	130
		Truck	1	4	2	7
		Hydraulic Truck	5	3	3	45
		Mini Dumper	4	3	5	50
		Dumper	2	4	8	56
		Largea truck	1	5		10
		<b>Total</b>				<b>298</b>
67	Khandwa M	Tractor	3	2	1	6
		Truck	1	3	2	6
		Dumper	1	4	2	8
		<b>Total</b>				<b>20</b>
68	Morena M	Dumper	2	5	2	20
		Tractor trolley	4	2	3	24
		<b>Total</b>				<b>44</b>
69	Murwara-Katni M.Corp.	Truck	3	3	4	36
		Dumper	1	4	3	12
		Tractor	1	3	5	15
		<b>Total</b>				<b>63</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
70	Ratlam M.Corp.	Truck	2	n.a.	6	n.a.
		Tractor trolley	2		3	
		<b>Total</b>				
71	Rewa M.Corp.	Tractor trolley	5	2	4	40
		<b>Total</b>				<b>40</b>
72	Satna M.Corp.	Dumper	2	8	2	n.a.
		Tractor	11	n.a.	4	
		Truck	1		2	
		<b>Total</b>				
73	Shivpuri M	Tractor trolley	3	1.2	n.a.	
		Dumper	1	2		
		<b>Total</b>				
<b>Maharashtra</b>						
74	Amravati M.Corp.	Truck	12	2	4	96
		<b>Total</b>				<b>96</b>
75	Aurangabad M.Corp.	Truck	14	5	3	210
		Tippers	10	3	3	90
		Rickshaw	4	0.05	10	2
		Matador	3	3	3	27
		<b>Total</b>				<b>329</b>
76	Bhusawal M.Cl.	Tractor Trolley	5	1	6	30
		<b>Total</b>				<b>30</b>
77	Chandrapur MCl	Truck	6	3	3	45
		Tractor	3	3	3	23
		Truck (large)	1	4	1	4
		Truck (hired)	4	4	3	42
		<b>Total</b>				<b>114</b>
78	Dhule MCl	Truck	5	2	1	10
		Hydraulic truck	1	1	12	12
		Tractor	1	2	2	4
		Dumper	1	3	2	6
		<b>Total</b>				<b>32</b>
79	Ichalkaranji MCl	Tractor Trolley	15	2	5	150
		<b>Total</b>				<b>150</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
80	Jalgaon MCI	Tractor	16	3	4	160
		Dumper	6	3	3	54
		<b>Total</b>				<b>214</b>
81	Kolhapur M.Corp.	Truck	14	3	2	84
		Refuse Collector	2	8	2	32
		<b>Total</b>				<b>116</b>
82	Nanded Waghala M.Corp.	Truck	1	3	3	9
		Mini-truck	6	2	3	36
		Tipper	1	3	3	9
		Tempo	1	1	3	3
		Tractor Trolley	4	2	3	24
		<b>Total</b>				<b>81</b>
83	Nashik M.Corp.	Truck	6	2	2	24
		Tempo	37	1.5	2	111
		Truck	5	1.5	2	15
		Tractor Trolley	38	1.5	2	114
		5 wheeler	5	0.1		15
		<b>Total</b>				<b>279</b>
84	Parbhani MCI	Tempo	2	3	3	18
		Tractor Trolley	6	3	3	54
		<b>Total</b>				<b>72</b>
85	Solapur M.Corp.	Truck	14	4	5	245
		Tempo	12	1.5	6	108
		<b>Total</b>				<b>353</b>
86	Wardha M	Truck	4	4	2	32
		Tractor Trolley	2	2	2	8
		<b>Total</b>				<b>40</b>
87	Yavatmal MCI	Tractor	4	1	1	4
		Truck	3	2	1	6
		<b>Total</b>				<b>10</b>
	<b>Orissa</b>					
88	Bhubaneswar M.Corp.	Truck	10	2		n.a.
		Tractor Trolley	8	n.a.		
		<b>Total</b>				<b>n.a.</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
89	Cuttack M.Corp.	Truck	6	n.a.	3	n.a.
		Tractor Trolley	14		n.a.	
		<b>Total</b>				
90	Puri M	Truck	2	n.a.	n.a.	n.a.
		Tractor Trolley	7		4	
		<b>Total</b>				
91	Rourkela M	Truck	4	n.a.	4	n.a.
		Tractor Trolley	2		n.a.	
		<b>Total</b>				
92	Sambalpur M	Truck	2	1.3	3	n.a.
		Tractor Trolley	4	n.a.	n.a.	
		Dumper	1			
		<b>Total</b>				
<b>Punjab</b>						
93	Amritsar M.Corp.	Tractor Trolley	56	3	2	336
		Dumper	15	4	2	120
		Tippers	3	10	2	60
		<b>Total</b>				<b>516</b>
94	Bathinda MCI	Tractor Trolley	8	3	3	72
		Dumper	2	5	3	27
		<b>Total</b>				<b>99</b>
95	Hoshiarpur MCI	Truck	1	5	2	10
		Tractor Trolley	1	1	3	3
		Dumper	2	1	10	20
		<b>Total</b>				<b>33</b>
96	Jalandhar M. Corp.	Tippers	11	4	3	132
		Tractor	2	2	4	16
		Dumper	8	1	5	40
		Three wheeler	30	0.2	4	18
		Refuse Collector	3	5	2	30
		<b>Total</b>				<b>236</b>
97	Moga MCI	Truck	2	4	2	16
		Tractor Trolley	5	2	2	20
		<b>Total</b>				<b>36</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
98	Pathankot MCI	Auto rickshaw	6	0.4	2	4
		Tractor Trolley	2	1.2	2	5
		Dumper	30	0.5	1	15
		<b>Total</b>				<b>24</b>
99	Patiala M.Corp.	Tractor Trolley	13	1	2	26
		Truck	3	4	2	24
		Container	20	1.5	1	30
		<b>Total</b>				<b>80</b>
	<b>Rajasthan</b>					
100	Ajmer MCI	Tractor Trolley	17	3	6	255
		<b>Total</b>				<b>255</b>
101	Alwar M	Tractor Trolley	18	1	5	90
		Tempo	2	0.3	5	3
		Dumper	2	5	1	9
		<b>Total</b>				<b>102</b>
102	Beawar M	Tractor Trolley	3	1.8	8	42
		<b>Total</b>				<b>42</b>
103	Bhilwara M	Dumper	5	3	3	45
		Tractor Trolley	5	1	3	15
		<b>Total</b>				<b>60</b>
104	Bikaner M	Tractor	9	1.1	6	60
		Dumper	4	5	6	120
		<b>Total</b>				<b>180</b>
105	Jodhpur M.Corp.	Dumper	17	2	2	68
		Tractor	40	2	3	240
		<b>Total</b>				<b>308</b>
106	Kota M.Corp.	Dumper	8	1.5	3	36
		Tractor Trolley	19	1.5	3	86
		<b>Total</b>				<b>122</b>
107	Sriganganagar M	Tractor Trolley	6	2	1	12
		Truck	3	2	2	12
		<b>Total</b>				<b>24</b>
	<b>Tamil Nadu</b>					

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
108	Cuddalore M	Truck	2	3	3	15
		Tractor	1	2	4	8
		Mini-Truck	6	2	3	36
		<b>Total</b>				<b>59</b>
109	Dindigul M	Truck	1	3	2	5
		Mini-Truck	5	1.5	1	8
		Tractor	2	1	1	2
		Power tiller	2	1	1	2
		<b>Total</b>				<b>17</b>
110	Erode M	Truck	3	2	3	18
		Mini-Truck	5	1.5	4	30
		Tractor	1	2	4	8
		Power tiller	1	1	4	4
		Bullock Carts	25	0.5	2	25
		<b>Total</b>				<b>85</b>
111	Kanchipuram M	Truck	6	n.a.	1	12
		Power Tiller	2	1	3	6
		<b>Total</b>				<b>18</b>
112	Kumbakonam M	Truck	1	3	3	9
		Mini-Truck	10	1	3	30
		<b>Total</b>				<b>39</b>
113	Nagercoil M	Truck	3	3	2	15
		Power tiller	2	1	2	4
		Truck	4	1.5	2	12
		<b>Total</b>				<b>31</b>
114	Rajapalayam M	Truck	3	2	2	12
		Tractor	8	2	2	32
		<b>Total</b>				<b>44</b>
115	Salem M.Corp.	Tractor	40	1.5	2	120
		Truck	6	4	2	48
		Mini-Truck	4	2	2	16
		Swaraj Mazda truck	7	2	2	28
		Van	2	1.5	2	6
		<b>Total</b>				<b>218</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
116	Thanjavur M	Truck	11	1	2	22
		Tippers	2	2	2	8
		Tractor	1	2	2	4
		<b>Total</b>				<b>34</b>
117	Tiruchirapalli M.Corp.	Truck	31	n.a.	2	n.a.
		Tractor	4		2	
		Pick up van	11		4	
		<b>Total</b>			<b>280</b>	
118	Tirunelveli M.Corp.	Truck	4	2	3	24
		Mini-Truck	14	1	3	42
		Tractor	4	1	3	12
		Tippers	2	1	3	6
		Container	2	0.5	3	3
		<b>Total</b>				<b>87</b>
119	Tirunvannamalai M	Tippers	3	3	2	15
		Tippers (small)	2	1	3	6
		Truck	1	1.5	2	3
		DCM truck	4	1	2	8
		<b>Total</b>				<b>32</b>
120	Tiruppur M	Truck	7	3	2	42
		Mini-Truck	7	2	3	42
		Tractor	4	1	3	12
		Tippers	2	1	2	4
		<b>Total</b>				<b>100</b>
121	Tuticorin M	Tiller	2	3	1	6
		Truck	3	1	2	6
		Tractor	4	2	1	8
		Mini van	5	1	1	5
		<b>Total</b>				<b>25</b>
122	Vellore M	Truck	8	2	2	
		Power tiller	4	1	1	
		<b>Total</b>				<b>35</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
	<b>Uttar Pradesh</b>					
123	Agra M.Corp.	Tippers	24	n.a.	7	n.a.
		Tractor	6		5	
		D.P.	3		3	
		<b>Total</b>			<b>430</b>	
124	Aligarh M.Corp.	Tractor Trolley	16	1.8	3	84
		Truck	12	5	2	120
		Tippers	2	2	3	12
		Refuse Collector	2	10	3	60
		<b>Total</b>				<b>276</b>
125	Allahabad M.Corp.	Tippers	15	3	4	180
		Refuse Collector	4	8	2	64
		Tractor Trolley	3	1.5	2	9
		<b>Total</b>				<b>253</b>
126	Bareilly M.Corp.	Refuse Collector	3	15	1	45
		Dumper placer	3	1	5	15
		Tractor Trolley	21	2	4	168
		Tippers	6	4	4	96
		<b>Total</b>				<b>324</b>
127	Etawah MB	Tractor	5	n.a.	4	
		<b>Total</b>				<b>27</b>
128	Faizabad MB	Dumper	2	n.a.	5	n.a.
		Tractor Trolley	2		5	
		<b>Total</b>				
129	Firozabad MB	Tractor	6	2	3	36
		Truck	4	4	6	96
		DCM Truck	1	4	3	12
		<b>Total</b>				<b>144</b>
130	Ghaziabad M.Corp.	Tippers	6	n.a.	6	n.a.
		Tractor Trolley	24		3	
		Carrier	1		5	
		<b>Total</b>				

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
131	Gorakhpur M.Corp.	Tractor Trolley	18	2	4	144
		Truck	6	3	3	54
		Refuse Collector	3	4	2	24
		Dumper	2	4	2	16
		<b>Total</b>				
132	Haldwani-cum-Kathgodam MB	Truck	1	2	10	20
		Tractor Trolley	3	2	3	18
		<b>Total</b>				
133	Hapur MB	Tractor	4	4	5	70
		<b>Total</b>				
134	Hardwar MB	Tractor	7	2	4	56
		Gas mover	1	1	3	3
		Truck	5	3	6	90
		Carrier bin	22	1.5	1	33
		<b>Total</b>				
135	Jhansi MB	Tractor Trolley	13	1.5	5	98
		Dumper	1	9	4	36
		<b>Total</b>				
136	Mathura MB	Truck	2	5	5	50
		Dumper placer	3	3	6	54
		LCV	1	3	3	9
		Tractor	4	1.5	2	12
		Bullock Carts	25	0.5	2	25
		<b>Total</b>				
137	Meerut M.Corp.	Tractor Trolley	14	2	5	140
		Tipppers	8	5	5	200
		Truck	12	4	4	168
		<b>Total</b>				
138	Mirzapur MB	Tractor Trolley	15	2	2	60
		Dumper	1	2	5	10
		Bullock Carts	2	0.4	3	2
		<b>Total</b>				
139	Moradabad M.Corp.	Tractor	12	3	5	150
		Truck	2	5	7	70
		Swaraj Mazda	3	4	7	74
		<b>Total</b>				

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
140	Muzaffarnagar MB	Tippers	2	3	5	25
		Tractor Trolley	8	4	3	96
		Hand cart	125	0.05	2	13
		<b>Total</b>				<b>134</b>
141	Rae Bareli MB	Dumper	1	4	6	24
		Tractor Trolley	3	2	6	36
		<b>Total</b>				<b>60</b>
142	Rampur MB	Tractor	18	1	6	108
		Tippers	2	1	6	12
		<b>Total</b>				<b>120</b>
143	Saharanpur MB	Truck	8	4	2	64
		Tractor Trolley	10	4	2	80
		Mini-Truck	8	3	2	48
		Gas mover	1	4	2	8
		<b>Total</b>				<b>200</b>
144	Sitapur MB	Tractor Trolley	8	1	4	32
		Tippers	7	1	2	14
		Tempo	2	3	4	24
		<b>Total</b>				<b>70</b>
145	Unnao MB	Tractor	2	1	4	8
		<b>Total</b>				<b>8</b>
<b>West Bengal</b>						
146	Asansol M.Corp.	Truck	23	2	n.a.	n.a.
		<b>Total</b>				<b>60</b>
147	Baharampur M	Truck	1	3	3	9
		Tractor	12	2	3	72
		<b>Total</b>				<b>81</b>
148	Balurghat M	Truck	1	3	5	15
		Tractor	2	3	3	18
		<b>Total</b>				<b>33</b>
149	Bankura M	Tractor	6	4	1	22
		Handcarts	20	0.3	1	5
		<b>Total</b>				<b>27</b>
150	Barasat M	Tractor	3	2	3	18
		Truck	1	3	3	9
		<b>Total</b>				<b>27</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
151	Burdwan M	Truck	6	n.a.	4	67
		Tractor Trolley	2	2	2	8
		<b>Total</b>				<b>75</b>
152	Halisahar M	Tractor	3	2	3	18
		<b>Total</b>				<b>18</b>
153	Krishna Nagar M	Truck	1	4	3	12
		Tractor Trolley	4	2	3	24
		<b>Total</b>				<b>36</b>
154	Midnapur M	Truck	3	3	5	45
		Tractor Trailer	2	2	2	8
		<b>Total</b>				<b>53</b>
155	North Barrackpur M	Tractor	5	2	3	30
		Truck	1	3	3	9
		<b>Total</b>				<b>39</b>
156	Santipur M	Truck	1	2	2	4
		Tractor	5	1.5	4	30
		<b>Total</b>				<b>34</b>
157	Siliguri M.Corp.	Tractor	4	n.a.	3	
		Truck	6		3	
		<b>Total</b>				<b>150</b>
<b>Small States</b>						
<b>Assam</b>						
158	Guwahati M.Corp.	Truck (large)	25	3	3	225
		Truck (small)	3	1	5	15
		<b>Total</b>				<b>240</b>
159	Jorhat MB	Truck	2	1.5	3	9
		Tractor Trolley	3	n.a.	3	5
		<b>Total</b>				<b>14</b>
<b>Manipur</b>						
160	Imphal MCI	Truck	2	1	2	4
		Dumper	4	1.5	4	24
		Tractor Trolley	4	1	4	16
		<b>Total</b>				<b>44</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
	<b>Meghalaya</b>					
161	Shillong MB	Tipper	4	n.a.	1	31
		Truck	6		1	47
		<b>Total</b>				<b>78</b>
	<b>Tripura</b>					
162	Agartala MCI	Truck	9	3	2	50
		Tractor Trolley	1	2	2	4
		Tipper	2	1.8	2	7
		<b>Total</b>				<b>61</b>
	<b>Union Territories</b>					
163	Chandigarh M.Corp.	Dumper	16	1	7	112
		Compactors	5	3	3	45
		Tractor Trolley	20	1.5	4	120
		Truck	1	1	3	3
		<b>Total</b>				<b>280</b>
164	Pondicherry M	Tipper	7	4	2	56
		Truck	6	3	2	36
		Power tiller	2	0.5	4	4
		Tractor	3	2	3	18
		<b>Total</b>				<b>114</b>
<p>Note : Data for average waste transported was furnished by the respective urban local bodies. The number of vehicles, multiplied by the average capacity and number of trips may not addup to the waste transported.</p> <p>Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.</p>						

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
<b>Class II</b>						
<b>Andhra Pradesh</b>						
1	Anakapalle M	Tractor	4	2	3	24
		Tractor (hired)	2	2	3	12
		Tipper	1	3	1	3
		Tiller	6	0.9	3	16
		<b>Total</b>				
2	Dharmavaram M	Tractor	2	1.5	3	9
		<b>Total</b>				<b>9</b>
3	Gudur MCI	Tractor	3	2	3	18
		<b>Total</b>				<b>18</b>
4	Kapra M	Tractor	6	1.5	5	45
		<b>Total</b>				<b>45</b>
5	Kavali MCI	Tractor	3	2	4	24
		<b>Total</b>				<b>24</b>
6	Madanapalle M	Tractor	4	3	1	12
		Tractor (hired)	2	2	2	8
		<b>Total</b>				<b>20</b>
7	Narasaraopet M	Tractor	3	3	3	23
		Bullock Carts	9	0.3	5	11
		Tipper	4	2	1	8
		<b>Total</b>				<b>42</b>
8	Rajendra Nagar MCI	Tractor	1	1.5	3	5
		Truck	1	2	2	4
		<b>Total</b>				<b>9</b>
9	Sangareddy MCI	Tractor	1	1.5	3	5
		Tractor (hired)	3	1.5	2	9
		<b>Total</b>				<b>14</b>
10	Srikakulam MCI	Tractor	3	2	3	18
		Tractor (hired)	2	2	4	16
		<b>Total</b>				<b>34</b>
11	Srikalahasti M	Tractor trailer	2	2	6	24
		<b>Total</b>				<b>24</b>
12	Suryapet MCI	Tractor	3	2	5	30
		<b>Total</b>				<b>30</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
	<b>Bihar</b>					
13	Buxar M	Tractor	2	3	2	12
		<b>Total</b>				<b>12</b>
14	Deoghar M	Tractor	1	1.5	6	9
		Handcarts	n.a.	n.a.	n.a.	1
		<b>Total</b>				<b>10</b>
15	Hajipur M	Tractor	3	n.a.	2	24
		<b>Total</b>				<b>24</b>
16	Hazaribagh M	Tractor	3	1	3	9
		Truck	3	3	3	27
		<b>Total</b>				<b>36</b>
17	Jehanabad M	Tractor	1	3	4	10
		<b>Total</b>				<b>10</b>
18	Madhubani M	Tractor	4	1	4	16
		<b>Total</b>				<b>16</b>
19	Mokama M	Tractor (hired)	1	4	1	4
		<b>Total</b>				<b>4</b>
	<b>Gujarat</b>					
20	Amreli M	Tractor	4	1	8	30
		<b>Total</b>				<b>30</b>
21	Ankleswar M	Tractor Trolley	3	1	2	6
		<b>Total</b>				<b>6</b>
22	Dabhoi M	Truck	1	3	6	18
		<b>Total</b>				<b>18</b>
23	Dohad M	Truck	1	1	1	1
		Tractor	3	0.5	2	3
		<b>Total</b>				<b>4</b>
24	Gondal M	Two wheeler	25	n.a.	8	n.a.
		Tractor	7		1	
		<b>Total</b>				<b>0</b>
25	Jetpur M	Tractor	3	1.5	8	36
		Handcarts	24	n.a.	7	4
		<b>Total</b>				<b>40</b>
26	Mahesana M	Tractor	4	1	2	8
		<b>Total</b>				<b>8</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
27	Palampur M	Tractor	3	4	3	32
		Auto	2	n.a.	n.a.	10
		<b>Total</b>				<b>42</b>
	<b>Haryana</b>					
28	Jind MCI	Tractor Trolley	3	1.5	4	18
		<b>Total</b>				<b>18</b>
29	Kaithal MCI	Tractor Trolley	4	1	3	12
		<b>Total</b>				<b>12</b>
30	Rewari MCI	Tractor Trolley	3	1.3	4	16
		<b>Total</b>				<b>16</b>
31	Thanesar MCI	Tractor Trolley	4	1	3	12
		Refuse Collector	1	10	1	10
		Thela	3	0.3	3	2
		<b>Total</b>				<b>24</b>
	<b>Karnataka</b>					
32	Bagalkot CMC	Tractor	3	1.5	2	9
		Truck	1	2	2	4
		<b>Total</b>				<b>13</b>
33	Chikmagalur CMC	Truck	2	3	2	12
		Tractor	2	1.5	2	6
		<b>Total</b>				<b>18</b>
34	Gokak CMC	Tractor	2	1.5	1	3
		Tempo	2	1.5	2	6
		<b>Total</b>				<b>9</b>
35	Hospet CMC	Tractor	3	1.5	5	23
		Tipppers	1	3	4	10
		<b>Total</b>				<b>33</b>
36	Kolar CMC	Tractor	4	2	1	8
		Tipppers	1	3	3	8
		<b>Total</b>				<b>16</b>
37	Rabkavi-Banhatti CMC	Municipality sells waste			not applicable	
		<b>Total</b>				
38	Ramanagaram CMC	Truck	2	1.5	3	9
		Tractor	1	1	2	2
		<b>Total</b>				<b>11</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
	<b>Kerala</b>					
39	Changanessary MC	Truck	1	2	2	4
		Tempo	2	1	2	4
		Tiller	1	0.5	2	1
		Tractor	1	1.5	2	3
		<b>Total</b>				
40	Payyanur M	Truck	1	2	2	4
		<b>Total</b>				
41	Taliparamba M	Truck	1	3	1	3
		<b>Total</b>				
42	Thrissur MC	Truck	11	2	1	22
		Tractor	3	2	2	12
		Tipper	1	0.5	2	1
		<b>Total</b>				
	<b>Madhya Pradesh</b>					
43	Hoshangabad M	Tractor trolley	2	1.5	5	15
		<b>Total</b>				
44	Itarsi M	Tractor trolley	5	1.3	2	13
		Truck	1	3	1	3
		<b>Total</b>				
45	Khargone M	Tractor trolley	3	1	2	6
		<b>Total</b>				
46	Mandsaur M	Truck	1	4	2	8
		Tractor trolley	3	3	2	18
		<b>Total</b>				
47	Nagda M	Dumper	1	3	3	9
		Tractor trolley	1	1	1	1
		<b>Total</b>				
48	Neemuch M	Tractor trolley	4	n.a.	2	n.a.
		Truck	1		2	
		Auto rickshaw	1		3	
		<b>Total</b>				
49	Sehore M	Tractor trolley	4	2	4	30
		<b>Total</b>				
50	Shahdol M	Tractor trolley	4	1.2	3	9
		<b>Total</b>				

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
51	Vidisha M	Tractor trolley	5	0.5	4	10
		<b>Total</b>				<b>10</b>
	<b>Maharashtra</b>					
52	Amalner MCI	Tractor	3	n.a.	3	n.a.
		Truck	1		2	
		<b>Total</b>			<b>6</b>	
53	Ballarpur MCI	S.Model Truck	1	2	3	6
		Truck	1	2	3	6
		Tractor	3	2	1	6
		<b>Total</b>				<b>18</b>
54	Bhandara M	Truck	1	3	2	6
		Tractor Trolley	3	2	1	6
		<b>Total</b>				<b>12</b>
55	Kamptee MCI	Handcarts	30	0.03	6	5
		Refuse trolley	4	0.5	8	16
		Tippers	3	1.1	7	23
		Private trolley	2	0.5	6	6
		<b>Total</b>				<b>45</b>
56	Manmad MCI	Truck	1	1	1	1
		Tractor	2	3	1	5
		<b>Total</b>				<b>6</b>
57	Ratnagiri MCI	Truck	3	3	2	15
		Tippers	1	4	2	8
		<b>Total</b>				<b>23</b>
58	Satara MCI	Truck (large)	2	2	3	12
		Truck (small)	1	1.5	3	5
		<b>Total</b>				<b>17</b>
59	Virar MCI	Tractor	4	2	2	16
		Dumper	2	5	2	20
		Tipper	2	2	2	8
		Truck	1	3	2	6
		<b>Total</b>				<b>50</b>
	<b>Punjab</b>					
60	Ferozepur MCI	Tractor Trolley	5	2	4	40
		<b>Total</b>				<b>40</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
61	Kapurthala M	Tractor Trolley	4	1	3	n.a.
		Dumper placer	40	n.a.	n.a.	
		<b>Total</b>				
62	Mansa MCI	Tractor Trolley	3	1.5	6	27
		<b>Total</b>				<b>27</b>
63	Phagwara MCI	Tractor Trolley	4	1.3	2	10
		Truck	1	2	2	4
		<b>Total</b>				<b>14</b>
64	Sangrur MCI	Tractor Trolley	3	3	2	15
		<b>Total</b>				<b>15</b>
<b>Rajasthan</b>						
65	Banswara M	Tractor Trolley	2	n.a.	8	n.a.
		Dumper	2		12	
		Loader	1		n.a.	
		<b>Total</b>				
66	Barmer M	Tractor	4	3	1	12
		Truck	2	1	3	6
		<b>Total</b>				<b>18</b>
67	Bundi M	Tractor Trolley	3	2	4	24
		<b>Total</b>				<b>24</b>
68	Churu M	Tractor Trolley	4	3	2	24
		Donkey cart	15	0.2	2	6
		<b>Total</b>				<b>30</b>
69	Hanumangarh M	Tractor	7	1.5	4	42
		<b>Total</b>				<b>42</b>
70	Sawai Madhopur M	Tractor Trolley	4	1	1	4
		<b>Total</b>				<b>4</b>
<b>Tamil Nadu</b>						
71	Ambur M	Truck	1	2	3	6
		Mini-Truck	1	1	4	4
		Tractor	2	1	3	6
		<b>Total</b>				<b>16</b>
72	Arakkonam M	Bullock Cart	6	0.3	2	3
		Truck	4	2	1	8
		<b>Total</b>				<b>11</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
73	Attur M	Truck	1	2	2	4
		Mini-Truck	3	1	2	6
		<b>Total</b>				<b>10</b>
74	Cumbum M	Mini-Truck	2	0.6	2	2
		Tractor	1	0.5	2	0.9
		<b>Total</b>				<b>3</b>
75	Dharmapuri M	Truck	2	1.8	2	7
		Bullock Carts	16	0.3	1	4
		<b>Total</b>				<b>11</b>
76	Gudiyatham M	Truck	2	3	3	17
		<b>Total</b>				<b>17</b>
77	Nagapattinam M	Truck	4	1.5	4	24
		<b>Total</b>				<b>24</b>
78	Pudukkottai M	Truck	2	2	2	8
		Mini-Truck	3	1	2	6
		Tractor	2	1.5	2	6
		<b>Total</b>				<b>20</b>
79	Sivakasi M	Truck	1	1	1	1
		Mini-Truck	3	1	1	3
		Tractor	3	0.5	1	2
		<b>Total</b>				<b>6</b>
80	Srivilliputtur M	Mini-Truck	4	3	2	20
		<b>Total</b>				<b>20</b>
81	Tindivanam M	Truck	1	2	2	4
		Mini-Truck	2	1	2	4
		Tractor	2	1	2	4
		<b>Total</b>				<b>12</b>
82	Udhagamandalam M	Truck	3	1.5	1	5
		Mini-Truck	3	1	1	3
		<b>Total</b>				<b>8</b>
<b>Uttar Pradesh</b>						
83	Auraiya MB	Tractor Trolley	2	1.5	7	21
		<b>Total</b>				<b>21</b>
84	Balrampur MB	Tractor	2	2	2	8
		Dumper	1	4	3	12
		<b>Total</b>				<b>20</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
85	Basti MB	Tractor	5	4	2	35
		<b>Total</b>				<b>35</b>
86	Bhadohi MB	Tractor Trolley	2	2	8	32
		Handcarts	20	0.08	5	8
		<b>Total</b>				<b>40</b>
87	Chandpur MB	Tractor Trolley	2	0.5	3	3
		Bullock Carts	8	0.1	2	2
		Handcarts	6	0.02	2	0.2
		<b>Total</b>				<b>5</b>
88	Etah MB	Tractor Trolley	2	2	4	16
		Tipppers	1	3	8	24
		<b>Total</b>				<b>40</b>
89	Ghazipur MB	Tractor Trolley	3	3	2	18
		Dumper	1	3	3	9
		<b>Total</b>				<b>27</b>
90	Gonda MB	Tractor Trolley	3	3	3	27
		<b>Total</b>				<b>27</b>
91	Lakhimpur MB	Tractor Trolley	2	n.a.	2	14
		Dumper	1	1.5	6	21
		<b>Total</b>				<b>35</b>
92	Lalitpur MB	Tractor	4	4	3	48
		Dumper	1	2	3	6
		<b>Total</b>				<b>54</b>
93	Mughalsarai MB	Tractor Trolley	3	4	3	36
		Power tiller	2	n.a.	2	1
		Handcarts	183	0.03	2	11
		<b>Total</b>				<b>48</b>
94	Nawabganj-Barabanki MB	Tractor	3	1	2	6
		<b>Total</b>				<b>6</b>
95	Orai MB	Tractor Trolley	3	1	5	15
		Handcarts	50	0.04	8	14
		<b>Total</b>				<b>29</b>
96	Roorkee MB	Tractor Trolley	3	3	3	27
		<b>Total</b>				<b>27</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
	<b>West Bengal</b>					
97	Bishnupur M	Tractor Trailer	2	2	2	8
		Handcarts	30	0.2	1	5
		<b>Total</b>				<b>13</b>
98	Chakdaha M	Handcarts	8	0.1	4	3
		Tractor Trailer	1	2	2	4
		<b>Total</b>				<b>7</b>
99	Contai M	Tractor Trolley	6	0.8	1	5
		Truck	3	1.3	1	4
		<b>Total</b>				<b>9</b>
100	Cooch Behar M	Wheel barrow	20	0.01	2	0.3
		Three wheeler	20	0.05	2	2
		Tractor Trolley	3	1	2	6
		Truck	2	3	2	10
		Auto van	2	0.5	3	3
		<b>Total</b>				<b>21</b>
101	Darjeeling M	Mini-Truck	4	1.3	3	15
		Truck	n.a.	n.a.	n.a.	15
		<b>Total</b>				<b>30</b>
102	Jalpaiguri M	Truck	3	2	3	18
		Tractor	2	1	1	2
		<b>Total</b>				<b>20</b>
103	Jangipur M	Tractor & Trailer	2	3	3	18
		<b>Total</b>				<b>18</b>
104	Katwa M	Tractor Trailer	6	2	3	36
		<b>Total</b>				<b>36</b>
105	Raniganj M	Tractor Trailer	6	2	3	41
		<b>Total</b>				<b>41</b>

**Status of Municipal Solid Waste Management**  
**C-4:Transportation Vehicles and their Details**

Sl.	City/Town	Type	Number	Approx. Capacity	Avg. no. of trips per day	Approx. waste transported daily
	1	2	3	4	5	6
	<b>Small States</b>					
	<b>Himachal Pradesh</b>					
106	Shimla M.Corp.	Dumper placer	5	n.a.	8	n.a.
		Tipper	3		3	
		<b>Total</b>				
	<b>Nagaland</b>					
107	Kohima TC	Truck	2	2	4	16
		Tractor Trailor	2	1.1	3	6
		<b>Total</b>				<b>22</b>
	<b>Union Territories</b>					
108	Port Blair MCI	Tipper	7	2	3	42
		Tractor Trolley	1	1	2	2
		<b>Total</b>				<b>44</b>
	<b>Others(Smaller than Class II towns)</b>					
	<b>Small States</b>					
	<b>Goa</b>					
109	Panaji MCI	Compactor	6	n.a.	2	n.a.
		Dumper Truck	7		2	
		Truck	1		2	
		<b>Total</b>				
	<b>Sikkim</b>					
110	Gangtok (Greater Gangtok) NTAC	Truck	7	5	1	35
		<b>Total</b>				<b>35</b>
	<b>Union Territories</b>					
111	Daman MCI	Truck	2	3	1	5
		Tempo	2	1	2	4
		Tractor	1	1.5	1	2
		Others	1	0.5	1	0.5
		<b>Total</b>				<b>11</b>
112	Silvassa CT	Dumper	1	2	1	2
		Hydraulic Dumper	1	2	1	2
		<b>Total</b>				<b>4</b>

Note : Data for average waste transported was furnished by the respective urban local bodies. The number of vehicles, multiplied by the average capacity and number of trips may not addup to the waste transported.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
<b>Metropolitan Cities</b>										
1	Ahmedabad M.Corp.	500	39	-	-	773	61	-	-	1273
2	Bangalore M.Corp.	440	20	-	-	1760	80	-	-	2200
3	Bhopal M.Corp.	100	28	260	72	-	-	-	-	360
4	Calcutta M.Corp.	300	14	1800	86	-	-	-	-	2100
5	Chennai M.Corp.	-	-	-	-	2500	100	-	-	2500
6	Coimbatore M.Corp.	-	-	-	-	670	100	-	-	670
7	Delhi M.Corp.	150	3	5350	97	-	-	-	-	5500
8	Greater Mumbai M.Corp.	100	2	5900	98	-	-	-	-	6000
9	Hyderabad M.Corp.	40	2	-	-	1845	97	15	1	1900
10	Indore M.Corp.	-	-	-	-	600	100	-	-	600
11	Jaipur M.Corp.	-	-	1483	100	-	-	-	-	1483
12	Kanpur M.Corp.	-	-	-	-	1100	100	-	-	1100
13	Kochi M.Corp.	-	-	-	-	240	100	-	-	240
14	Lucknow M.Corp.	-	-	-	-	875	100	-	-	875
15	Ludhiana M.Corp.	-	-	-	-	875	100	-	-	875
16	Madurai M.Corp.	30	7	-	-	420	93	-	-	450
17	Nagpur M.Corp.	-	-	100	20	400	80	-	-	500
18	Pune M.Corp.	-	-	900	100	-	-	-	-	900
19	Surat M.Corp.	-	-	960	100	-	-	-	-	960
20	Vadodara M.Corp.	-	-	-	-	440	100	-	-	440
21	Varanasi M.Corp.	-	-	-	-	461	100	-	-	461
22	Visakhapatnam M.Corp.	-	-	600	100	-	-	-	-	600
<b>Total-Metropolitan Cities</b>		<b>1660</b>	<b>5.2</b>	<b>17353</b>	<b>54.25</b>	<b>12959</b>	<b>40.5</b>	<b>15</b>	<b>0.05</b>	<b>31987</b>
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.										

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
<b>Class I</b>										
<b>Andhra Pradesh</b>										
1	Anantapur MCI	60	55	-	-	50	45	-	-	110
2	Chittoor M	35	50	12	17	23	33	-	-	70
3	Cuddapah MCI	-	-	-	-	84	100	-	-	84
4	Eluru M	6	4	-	-	140	96	-	-	146
5	Guntur MCI	250	100	-	-	-	-	-	-	250
6	Hindupur M	-	-	-	-	70	100	-	-	70
7	Kakinada M	-	-	-	-	145	100	-	-	145
8	Kurnool MCI	-	-	90	100	-	-	-	-	90
9	Machilipatnam M	45	90	-	-	5	10	-	-	50
10	Nandyal MCI	36	60	-	-	24	40	-	-	60
11	Nellore MCI	-	-	-	-	167	100	-	-	167
12	Nizamabad M	-	-	-	-	88	100	-	-	88
13	Ongole MCI	-	-	-	-	90	100	-	-	90
14	Qutubullapur M	-	-	-	-	70	100	-	-	70
15	Rajahmundry M.Corp.	-	-	-	-	193	100	-	-	193
16	Tenali M	64	80	-	-	16	20	-	-	80
17	Tirupati MCI	-	-	-	-	130	100	-	-	130
18	Vijaywada M.Corp.	-	-	300	65	-	-	165	35	465
19	Warangal M.Corp.	-	-	-	-	230	100	-	-	230
<b>Bihar</b>										
20	Bihar Sharif M	-	-	-	-	50	100	-	-	50
21	Chhapra M	-	-	-	-	66	100	-	-	66
22	Gaya M.Corp.	-	-	-	-	80	100	-	-	80
23	Katihar M	-	-	-	-	45	100	-	-	45
24	Munger M	-	-	-	-	50	100	-	-	50
25	Ranchi M.Corp.	-	-	-	-	34	100	-	-	34
<b>Gujarat</b>										
26	Anand M	-	-	-	-	10	100	-	-	10
27	Bharuch M	-	-	-	-	85	100	-	-	85
28	Bhavnagar M.Corp.	-	-	-	-	115	100	-	-	115

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
29	Bhuj M	-	-	-	-	40	100	-	-	40
30	Jamnagar M.Corp.	-	-	-	-	300	100	-	-	300
31	Junagadh M	-	-	-	-	75	100	-	-	75
32	Nadiad M	-	-	-	-	60	100	-	-	60
33	Navsari M	-	-	-	-	31	100	-	-	31
34	Porbandar M	-	-	-	-	22	100	-	-	22
35	Rajkot M.Corp.	-	-	-	-	425	100	-	-	425
36	Surendranagar M	-	-	-	-	31	100	-	-	31
	<b>Haryana</b>									
37	Ambala MCI	-	-	-	-	30	100	-	-	30
38	Faridabad M.Corp.	-	-	-	-	480	100	-	-	480
39	Gurgaon MCI	-	-	-	-	80	100	-	-	80
40	Hissar MCI	-	-	-	-	32	100	-	-	32
41	Karnal MCI	-	-	-	-	52	100	-	-	52
42	Rohtak MCI	-	-	-	-	28	100	-	-	28
	<b>Jammu &amp; Kashmir</b>									
43	Jammu M.Corp.	-	-	-	-	300	100	-	-	300
44	Srinagar M.Corp.	-	-	-	-	200	100	-	-	200
	<b>Karnataka</b>									
45	Belgaum M.Corp.	-	-	100	100	-	-	-	-	100
46	Bellary CMC	-	-	-	-	50	100	-	-	50
47	Davangere MCI	78	100	-	-	-	-	-	-	78
48	Gadag-Betigeri CMC	10	17	-	-	50	83	-	-	60
49	Gulbarga M.Corp.	-	-	-	-	76	100	-	-	76
50	Hubli-Dharwad M.Corp.	-	-	-	-	220	100	-	-	220
51	Mandya M	-	-	-	-	25	100	-	-	25
52	Mangalore M.Corp.	-	-	-	-	70	100	-	-	70
53	Mysore M.Corp.	-	-	-	-	205	100	-	-	205
54	Shimoga CMC	-	-	-	-	72	100	-	-	72
55	Tumkur M	-	-	-	-	84	100	-	-	84

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
	<b>Kerala</b>									
56	Alappuzha MC	-	-	-	-	20	100	-	-	20
57	Kollam MC	-	-	-	-	58	100	-	-	58
58	Kozhikode M.Corp.	-	-	-	-	154	100	-	-	154
59	Thalaserry M	30	100	-	-	-	-	-	-	30
60	Thiruvananthapuram M.Corp.	-	-	-	-	250	100	-	-	250
	<b>Madhya Pradesh</b>									
61	Bhind M	-	-	-	-	24	100	-	-	24
62	Burhanpur M.Corp.	21	35	-	-	39	65	-	-	60
63	Dewas M.Corp.	-	-	20	50	20	50	-	-	40
64	Guna M	-	-	-	-	18	100	-	-	18
65	Gwalior M.Corp.	100	36	-	-	180	64	-	-	280
66	Jabalpur M.Corp.	-	-	-	-	298	100	-	-	298
67	Khandwa M	10	50	5	25	5	25	-	-	20
68	Morena M	-	-	-	-	44	100	-	-	44
69	Murwara-Katni M.Corp.	-	-	-	-	63	100	-	-	63
70	Ratlam M.Corp.	-	-	-	-	35	100	-	-	35
71	Rewa M.Corp.	-	-	-	-	40	100	-	-	40
72	Satna M.Corp.	-	-	-	-	50	100	-	-	50
73	Shivpuri M	-	-	-	-	18	100	-	-	18
	<b>Maharashtra</b>									
74	Amravati M.Corp.	-	-	-	-	100	100	-	-	100
75	Aurangabad M.Corp.	10	3	-	-	330	97	-	-	340
76	Bhusawal M.Cl.	-	-	-	-	30	100	-	-	30
77	Chandrapur MCl	-	-	70	64	40	36	-	-	110
78	Dhule MCl	-	-	-	-	30	100	-	-	30
79	Ichalkaranji MCl	150	100	-	-	-	-	-	-	150
80	Jalgaon MCl	-	-	220	100	-	-	-	-	220
81	Kolhapur M.Corp.	-	-	-	-	115	100	-	-	115
82	Nanded Waghala M.Corp.	-	-	-	-	90	100	-	-	90
83	Nashik M.Corp.	-	-	-	-	280	100	-	-	280

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
84	Parbhani MCI	-	-	-	-	72	100	-	-	72
85	Solapur M.Corp.	353	100	-	-	-	-	-	-	353
86	Wardha M	-	-	10	25	30	75	-	-	40
87	Yavatmal MCI	-	-	-	-	10	100	-	-	10
	<b>Orissa</b>									
88	Bhubaneswar M.Corp.	-	-	-	-	175	100	-	-	175
89	Cuttack M.Corp.	-	-	-	-	320	100	-	-	320
90	Puri M	-	-	-	-	53	100	-	-	53
91	Rourkela M	-	-	-	-	40	100	-	-	40
92	Sambalpur M	-	-	-	-	32	100	-	-	32
	<b>Punjab</b>									
93	Amritsar M.Corp.	-	-	200	39	310	61	-	-	510
94	Bathinda MCI	-	-	-	-	95	100	-	-	95
95	Hoshiarpur MCI	-	-	-	-	33	100	-	-	33
96	Jalandhar M. Corp.	-	-	-	-	236	100	-	-	236
97	Moga MCI	-	-	36	100	-	-	-	-	36
98	Pathankot MCI	-	-	23	100	-	-	-	-	23
99	Patiala M.Corp.	-	-	80	100	-	-	-	-	80
	<b>Rajasthan</b>									
100	Ajmer MCI	-	-	-	-	250	100	-	-	250
101	Alwar M	-	-	-	-	100	100	-	-	100
102	Beawar M	-	-	-	-	42	100	-	-	42
103	Bhilwara M	-	-	-	-	58	100	-	-	58
104	Bikaner M	-	-	-	-	180	100	-	-	180
105	Jodhpur M.Corp.	-	-	-	-	308	100	-	-	308
106	Kota M.Corp.	-	-	20	17	100	83	-	-	120
107	Sriganganagar M	-	-	-	-	24	100	-	-	24
	<b>Tamil Nadu</b>									
108	Cuddalore M	60	100	-	-	-	-	-	-	60
109	Dindigul M	17	100	-	-	-	-	-	-	17
110	Erode M	-	-	-	-	85	100	-	-	85

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
111	Kanchipuram M	19	100	-	-	-	-	-	-	19
112	Kumbakonam M	-	-	-	-	40	100	-	-	40
113	Nagercoil M	30	100	-	-	-	-	-	-	30
114	Rajapalayam M	-	-	-	-	43	100	-	-	43
115	Salem M.Corp.	21	10	156	73	-	-	36	17	214
116	Thanjavur M	35	100	-	-	-	-	-	-	35
117	Tiruchirapalli M.Corp.	280	100	-	-	-	-	-	-	280
118	Tirunelveli M.Corp.	-	-	-	-	87	100	-	-	87
119	Tirunvannamalai M	32	100	-	-	-	-	-	-	32
120	Tiruppur M	-	-	-	-	100	100	-	-	100
121	Tuticorin M	-	-	-	-	25	100	-	-	25
122	Vellore M	24	69	10	29	-	-	1	3	35
	<b>Uttar Pradesh</b>									
123	Agra M.Corp.	30	7	400	93	-	-	-	-	430
124	Aligarh M.Corp.	-	-	-	-	275	100	-	-	275
125	Allahabad M.Corp.	-	-	-	-	250	100	-	-	250
126	Bareilly M.Corp.	-	-	-	-	320	100	-	-	320
127	Etawah MB	-	-	-	-	27	100	-	-	27
128	Faizabad MB	-	-	-	-	54	100	-	-	54
129	Firozabad MB	-	-	-	-	144	100	-	-	144
130	Ghaziabad M.Corp.	-	-	-	-	300	100	-	-	300
131	Gorakhpur M.Corp.	-	-	-	-	240	100	-	-	240
132	Haldwani-cum-Kathgodam MB	-	-	-	-	80	100	-	-	80
133	Hapur MB	20	29	-	-	50	71	-	-	70
134	Hardwar MB	-	-	-	-	182	100	-	-	182
135	Jhansi MB	-	-	89	66	35	26	11	8	135
136	Mathura MB	40	27	-	-	110	73	-	-	150
137	Meerut M.Corp.	-	-	-	-	500	100	-	-	500
138	Mirzapur MB	-	-	-	-	86	100	-	-	86
139	Moradabad M.Corp.	-	-	-	-	300	100	-	-	300
140	Muzaffarnagar MB	-	-	-	-	130	100	-	-	130
141	Rae Bareli MB	-	-	-	-	66	100	-	-	66

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
142	Rampur MB	120	100	-	-	-	-	-	-	120
143	Saharanpur MB	-	-	-	-	200	100	-	-	200
144	Sitapur MB	-	-	-	-	70	100	-	-	70
145	Unnao MB	-	-	-	-	8	100	-	-	8
	<b>West Bengal</b>									
146	Asansol M.Corp.	-	-	-	-	60	100	-	-	60
147	Baharampur M	2	2	49	60	25	31	5	6	81
148	Balurghat M	33	100	-	-	-	-	-	-	33
149	Bankura M	-	-	-	-	26	100	-	-	26
150	Barasat M	-	-	-	-	24	100	-	-	24
151	Burdwan M	-	-	75	100	-	-	-	-	75
152	Halisahar M	-	-	-	-	17	100	-	-	17
153	Krishna Nagar M	-	-	-	-	38	100	-	-	38
154	Midnapur M	49	91	5	9	-	-	-	-	53
155	North Barrackpur M	-	-	10	25	30	75	-	-	40
156	Santipur M	-	-	-	-	33	100	-	-	33
157	Siliguri M.Corp.	-	-	-	-	150	100	-	-	150
	<b>Small States</b>									
	<b>Assam</b>									
158	Guwahati M.Corp.	-	-	-	-	240	100	-	-	240
159	Jorhat MB	-	-	14	100	-	-	-	-	14
	<b>Manipur</b>									
160	Imphal MCI	-	-	-	-	38	100	-	-	38
	<b>Meghalaya</b>									
161	Shillong MB	-	-	-	-	78	100	-	-	78
	<b>Tripura</b>									
162	Agartala MCI	-	-	-	-	60	100	-	-	60
	<b>Union Territories</b>									
163	Chandigarh M.Corp.	-	-	280	100	-	-	-	-	280
164	Pondicherry M	120	100	-	-	-	-	-	-	120
	<b>Total-Class I Cities</b>	<b>2189</b>	<b>11</b>	<b>2274</b>	<b>12</b>	<b>14522</b>	<b>76</b>	<b>218</b>	<b>1</b>	<b>19204</b>

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
<b>Class II</b>										
<b>Andhra Pradesh</b>										
1	Anakapalle M	50	91	-	-	5	9	-	-	55
2	Dharmavaram M	9	100	-	-	-	-	-	-	9
3	Gudur MCI	-	-	18	100	-	-	-	-	18
4	Kapra M	-	-	-	-	48	100	-	-	48
5	Kavali MCI	-	-	24	100	-	-	-	-	24
6	Madanapalle M	20	100	-	-	-	-	-	-	20
7	Narasaraopet M	-	-	-	-	42	100	-	-	42
8	Rajendra Nagar MCI	-	-	12	100	-	-	-	-	12
9	Sangareddy MCI	-	-	18	100	-	-	-	-	18
10	Srikakulam MCI	-	-	-	-	25	100	-	-	25
11	Srikalahasti M	-	-	-	-	30	100	-	-	30
12	Suryapet MCI	-	-	30	75	10	25	-	-	40
<b>Bihar</b>										
13	Buxar M	-	-	-	-	12	100	-	-	12
14	Deoghar M	-	-	-	-	10	100	-	-	10
15	Hajipur M	-	-	-	-	24	100	-	-	24
16	Hazaribagh M	-	-	-	-	36	100	-	-	36
17	Jehanabad M	-	-	-	-	10	100	-	-	10
18	Madhubani M	-	-	-	-	15	100	-	-	15
19	Mokama M	-	-	-	-	4	100	-	-	4
<b>Gujarat</b>										
20	Amreli M	30	100	-	-	-	-	-	-	30
21	Ankleswar M	-	-	-	-	6	100	-	-	6
22	Dabhoi M	-	-	-	-	18	100	-	-	18
23	Dohad M	-	-	-	-	4	100	-	-	4
24	Gondal M	-	-	-	-	10	100	-	-	10
25	Jetpur M	-	-	-	-	40	100	-	-	40
26	Mahesana M	-	-	-	-	8	100	-	-	8
27	Palanpur M	-	-	-	-	40	100	-	-	40
<b>Haryana</b>										
28	Jind MCI	-	-	-	-	18	100	-	-	18
29	Kaithal MCI	-	-	-	-	12	100	-	-	12
30	Rewari MCI	-	-	-	-	16	100	-	-	16
31	Thanesar MCI	-	-	-	-	24	100	-	-	24

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
	<b>Karnataka</b>									
32	Bagalkot CMC	-	-	-	-	13	100	-	-	13
33	Chikmagalur CMC	-	-	-	-	18	100	-	-	18
34	Gokak CMC	7	100	-	-	-	-	-	-	7
35	Hospet CMC	-	-	-	-	31	100	-	-	31
36	Kolar CMC	-	-	-	-	15	100	-	-	15
37	Rabkavi-Banhatti CMC	-	-	-	-	12	100	-	-	12
38	Ramanagaram CMC	-	-	-	-	10	100	-	-	10
	<b>Kerala</b>									
39	Changanessary MC	-	-	-	-	12	100	-	-	12
40	Payyanur M	-	-	-	-	4	100	-	-	4
41	Taliparamba M	3	100	-	-	-	-	-	-	3
42	Thrissur MC	-	-	-	-	35	100	-	-	35
	<b>Madhya Pradesh</b>									
43	Hoshangabad M	-	-	-	-	15	100	-	-	15
44	Itarsi M	-	-	-	-	15	100	-	-	15
45	Khargone M	6	100	-	-	-	-	-	-	6
46	Mandsaur M	-	-	-	-	26	100	-	-	26
47	Nagda M	-	-	-	-	10	100	-	-	10
48	Neemuch M	-	-	-	-	8	100	-	-	8
49	Sehore M	-	-	-	-	30	100	-	-	30
50	Shahdol M	-	-	-	-	9	100	-	-	9
51	Vidisha M	-	-	10	100	-	-	-	-	10
	<b>Maharashtra</b>									
52	Amalner MCI	5	83	-	-	1	17	-	-	6
53	Ballarpur MCI	-	-	-	-	18	100	-	-	18
54	Bhandara M	-	-	-	-	12	100	-	-	12
55	Kamptee MCI	-	-	40	100	-	-	-	-	40
56	Manmad MCI	4	80	-	-	1	20	-	-	5
57	Ratnagiri MCI	-	-	-	-	22	100	-	-	22
58	Satara MCI	-	-	-	-	17	100	-	-	17
59	Virar MCI	-	-	-	-	50	100	-	-	50
	<b>Punjab</b>									
60	Ferozepur MCI	-	-	16	40	24	60	-	-	40
61	Kapurthala M	-	-	5	50	5	50	-	-	10

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
62	Mansa MCI	-	-	-	-	27	100	-	-	27
63	Phagwara MCI	-	-	-	-	14	100	-	-	14
64	Sangrur MCI	-	-	-	-	15	100	-	-	15
	<b>Rajasthan</b>									
65	Banswara M	-	-	-	-	25	100	-	-	25
66	Barmer M	-	-	-	-	18	100	-	-	18
67	Bundi M	-	-	-	-	24	100	-	-	24
68	Churu M	-	-	-	-	30	100	-	-	30
69	Hanumangarh M	-	-	-	-	43	100	-	-	43
70	Sawai Madhopur M	-	-	-	-	4	100	-	-	4
	<b>Tamil Nadu</b>									
71	Ambur M	13	100	-	-	-	-	-	-	13
72	Arakkonam M	-	-	-	-	11	100	-	-	11
73	Attur M	-	-	-	-	10	100	-	-	10
74	Cumbum M	4	100	-	-	-	-	-	-	4
75	Dharmapuri M	-	-	-	-	11	100	-	-	11
76	Gudiyatham M	-	-	-	-	16	100	-	-	16
77	Nagapattinam M	-	-	-	-	25	100	-	-	25
78	Pudukkottai M	20	100	-	-	-	-	-	-	20
79	Sivakasi M	-	-	-	-	5	100	-	-	5
80	Srivilliputtur M	-	-	-	-	20	100	-	-	20
81	Tindivanam M	-	-	-	-	12	100	-	-	12
82	Udhagamandalam M	7	100	-	-	-	-	-	-	7
	<b>Uttar Pradesh</b>									
83	Auraiya MB	-	-	-	-	21	100	-	-	21
84	Balrampur MB	-	-	-	-	20	100	-	-	20
85	Basti MB	-	-	-	-	35	100	-	-	35
86	Bhadohi MB	-	-	-	-	40	100	-	-	40
87	Chandpur MB	-	-	-	-	5	100	-	-	5
88	Etah MB	-	-	-	-	40	100	-	-	40
89	Ghazipur MB	-	-	-	-	27	100	-	-	27
90	Gonda MB	-	-	-	-	25	100	-	-	25
91	Lakhimpur MB	-	-	-	-	35	100	-	-	35
92	Lalitpur MB	25	45	-	-	30	55	-	-	55

**Status of Municipal Solid Waste Management**  
**C-5: Disposal of Solid Waste, 1999**

Sl. No.	City/Town	Quantity of solid waste treated/ disposed by								
		Composting		Land fill		Crude/ open dumping		Other methods		Total (MT/day)
		MT/day	%	MT/day	%	MT/day	%	MT/day	%	
1	2	3	4	5	6	7	8	9	10	
93	Mughalsarai MB	-	-	-	-	48	100	-	-	48
94	Nawabganj-Barabanki MB	-	-	-	-	6	100	-	-	6
95	Orai MB	-	-	-	-	29	100	-	-	29
96	Roorkee MB	12	44	-	-	15	56	-	-	27
	<b>West Bengal</b>									
97	Bishnupur M	-	-	-	-	13	100	-	-	13
98	Chakdaha M	-	-	-	-	7	100	-	-	7
99	Contai M	-	-	-	-	9	100	-	-	9
100	Cooch Behar M	-	-	-	-	21	100	-	-	21
101	Darjeeling M	-	-	-	-	30	100	-	-	30
102	Jalpaiguri M	-	-	-	-	21	100	-	-	21
103	Jangipur M	-	-	18	100	-	-	-	-	18
104	Katwa M	-	-	-	-	36	100	-	-	36
105	Raniganj M	-	-	-	-	-	-	41	100	41
	<b>Small States</b>									
	<b>Himachal Pradesh</b>									
106	Shimla M.Corp.	-	-	-	-	35	100	-	-	35
	<b>Nagaland</b>									
107	Kohima TC	-	-	-	-	23	100	-	-	23
	<b>Union Territories</b>									
108	Port Blair MCI	-	-	-	-	44	100	-	-	44
	<b>Others(Smaller than Class II towns)</b>									
	<b>Small States</b>									
	<b>Goa</b>									
109	Panaji MCI	-	-	11	100	-	-	-	-	11
	<b>Sikkim</b>									
110	Gangtok (Greater Gangtok) NTAC	-	-	-	-	35	100	-	-	35
	<b>Union Territories</b>									
111	Daman MCI	-	-	-	-	11	100	-	-	11
112	Silvassa CT	-	-	-	-	4	100	-	-	4
	<b>Total-Class II Towns</b>	<b>216</b>	<b>9</b>	<b>202</b>	<b>9</b>	<b>1855</b>	<b>80</b>	<b>41</b>	<b>2</b>	<b>2314</b>
	<b>Grand Total</b>	<b>4065</b>	<b>7.6</b>	<b>19829</b>	<b>37.1</b>	<b>29336</b>	<b>54.8</b>	<b>274</b>	<b>0.5</b>	<b>53505</b>

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

## Status of Municipal Solid Waste Management

### C-6: Composting Details, 1999

Sl. No.	City/Town	Quantity composted (MT)	Method of Composting
1	2	3	3
<b>Metropolitan Cities</b>			
1	Ahmedabad M.Corp.	500	Mechanical composting
2	Bangalore M.Corp.	500	Pit composting
3	Bhopal M.Corp.	100	Mechanical composting
4	Calcutta M.Corp.	300	
5	Delhi M.Corp.	650	Mechanical composting
6	Greater Mumbai M.Corp.	50	Wind rows
7	Hyderabad M.Corp.	40	Vermi-composting
8	Madurai M.Corp.	30	Pit composting
<b>Total-Metropolitan Cities</b>		<b>2170</b>	
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.			

## Status of Municipal Solid Waste Management

### C-6: Composting Details, 1999

Sl. No.	City/Town	Quantity composted (MT)	Method of Composting
1	2	3	3
<b>Class I</b>			
<b>Andhra Pradesh</b>			
1	Anantapur MCI	60	Pit composting
2	Chittoor M	35	Pit composting
3	Cuddapah MCI	-	Pit composting
4	Eluru M	6	Pit composting
5	Guntur MCI	250	Vermi-composting
6	Hindupur M	45	Pit composting
7	Kakinada M	36	Pit composting
8	Tenali M	64	n.a.
<b>Karnataka</b>			
9	Davangere MCI	78	Pit composting
10	Gadag-Betigeri CMC	10	Pit composting
<b>Kerala</b>			
11	Thalaserry M	30	Pit Composting
<b>Madhya Pradesh</b>			
12	Burhanpur M.Corp.	21	Pit composting
13	Gwalior M.Corp.	100	Vermi-composting
14	Khandwa M	10	Pit composting
<b>Maharashtra</b>			
15	Aurangabad M.Corp.	10	Excel technology
16	Ichalkaranji MCI	150	Pit composting
17	Solapur M.Corp.	353	Bangalore system
<b>Tamil Nadu</b>			
18	Cuddalore M	60	Pit composting
19	Dindigul M	17	Pit composting

## Status of Municipal Solid Waste Management

### C-6: Composting Details, 1999

Sl. No.	City/Town	Quantity composted (MT)	Method of Composting
1	2	3	
20	Kanchipuram M	19	Pit composting
21	Nagercoil M	30	Pit composting
22	Salem M.Corp.	21	Pit composting
23	Thanjavur M	35	Pit composting
24	Tiruchirapalli M.Corp.	280	Pit composting
25	Tiruvannamalai M	32	Heap composting
26	Vellore M	24	Pit composting
	<b>Uttar Pradesh</b>		
27	Agra M.Corp.	30	Wind rows
28	Hapur MB	20	Pit composting
29	Mathura MB	40	Tranching
30	Rampur MB	120	Pit composting
	<b>West Bengal</b>		
31	Balurghat M	33	Pit composting
32	Baharampur M	2	Pit composting
33	Midnapur M	49	Pit composting
	<b>Small States</b>		
	<b>Tripura</b>		
34	Agartala MCI	31	Mechanical composting
	<b>Union Territories</b>		
35	Pondicherry M	120	Pit composting
	<b>Total-Class I Cities</b>	<b>2220</b>	
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.			

## Status of Municipal Solid Waste Management

### C-6: Composting Details, 1999

Sl. No.	City/Town	Quantity composted (MT)	Method of Composting
1	2	3	3
<b>Class II</b>			
<b>Andhra Pradesh</b>			
1	Anakapalle M	50	Pit composting
2	Dharmavaram M	9	Pit composting
3	Madanapalle M	20	Wind rows
<b>Gujarat</b>			
4	Amreli M	30	n.a.
<b>Karnataka</b>			
5	Gokak CMC	7	Pit composting
<b>Kerala</b>			
6	Taliparamba M	3	Pit Composting
<b>Madhya Pradesh</b>			
7	Khargone M	6	Pit composting
<b>Maharashtra</b>			
8	Amalner MCI	5	Pit composting
9	Manmad MCI	4	Pit composting
<b>Tamil Nadu</b>			
10	Cumbum M	4	Heap composting
11	Pudukkottai M	20	Pit composting
12	Udhagamandalam M	7	Pit composting
<b>Uttar Pradesh</b>			
13	Lalitpur MB	25	Pit & Vermi-composting
14	Roorkee MB	12	Pit composting
<b>Total-Class II Towns</b>		<b>203</b>	
<b>Grand Total</b>		<b>4593</b>	
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.			

## Status of Municipal Solid Waste Management

### C-7: Landfill Details, 1999

Sl. No.	City/Town	Existing Landfill site(s)			Future Landfill site(s)		
		No.	Area (ha)	Future life (yrs)	No.	Area (ha)	Expected life (yrs)
	1	2	3	4	5	6	7
<b>Metropolitan Cities</b>							
1	Bangalore M.Corp.	n.a	n.a	n.a	2	8	20
2	Bhopal M.Corp.	2	6	n.a	1	11	n.a
3	Calcutta M.Corp.	5	8	n.a	n.a	n.a	n.a
4	Chennai M.Corp.	n.a	n.a	n.a	1	55	10
5	Delhi M.Corp.	4	60	3	1	10	10
6	Greater Mumbai M.Corp.	4	173	2	n.a	n.a	10
7	Indore M.Corp.	1	59	n.a	1	30	n.a
8	Jaipur M.Corp.	1	30	7	n.a	n.a	n.a
9	Kochi M.Corp.	n.a	n.a	n.a	1	18	n.a
10	Nagpur M.Corp.	1	16	n.a	n.a	n.a	n.a
11	Pune M.Corp.	2	29	10	n.a	n.a	n.a
12	Surat M.Corp.	2	7	1	1	200	50
13	Vadodara M.Corp.	n.a	n.a	n.a	1	2	50
14	Visakhapatnam M.Corp.	2	42	n.a	n.a	n.a	n.a
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.							

## Status of Municipal Solid Waste Management

### C-7: Landfill Details, 1999

Sl. No.	City/Town	Existing Landfill site(s)			Future Landfill site(s)		
		No.	Area (ha)	Future life (yrs)	No.	Area (ha)	Expected life (yrs)
	1	2	3	4	5	6	7
<b>Class I</b>							
<b>Andhra Pradesh</b>							
1	Chittoor M	1	2	2	-	-	-
2	Cuddapah MCI	-	-	-	1	9	25
3	Hindupur M	-	-	-	1	1	n.a.
4	Kurnool MCI	1	11	20	-	-	-
5	Nizamabad M	-	-	-	1	5	n.a.
6	Ongole MCI	-	-	-	1	16	n.a.
7	Vijaywada M.Corp.	3	10	n.a.	-	-	-
<b>Gujarat</b>							
8	Rajkot M.Corp.	-	-	-	1	25	25
<b>Jammu &amp; Kashmir</b>							
9	Srinagar M.Corp.	1	n.a.	5	-	-	-
<b>Karnataka</b>							
10	Belgaum M.Corp.	1	4	n.a.	1	43	n.a.
11	Mysore M.Corp.	-	-	-	1	3	n.a.
<b>Kerala</b>							
12	Thalaserry M	-	-	-	1	5	20
13	Thiruvananthapuram M.Corp.	-	-	-	1	5	n.a.
<b>Madhya Pradesh</b>							
14	Dewas M.Corp.	1	4	1	1	15	n.a.
15	Khandwa M	1	7	2	-	-	-
16	Rewa M.Corp.	-	-	-	1	6	n.a.
17	Satna M.Corp.	-	-	-	1	5	n.a.
18	Shivpuri M	-	-	-	1	9	n.a.
<b>Maharashtra</b>							
19	Chandrapur MCI	1	11	4	-	-	-
20	Jalgaon MCI	1	n.a.	n.a.	-	-	-
21	Nanded Waghala M.Corp.	-	-	-	2	22	50
22	Solapur M.Corp.	-	-	-	1	2	15
23	Wardha M	1	12	10	-	-	-
<b>Punjab</b>							
24	Moga MCI	1	6	5	-	-	-
25	Pathankot MCI	1	n.a.	n.a.	-	-	-
26	Patiala M.Corp.	4	5	4-6	-	-	-

## Status of Municipal Solid Waste Management

### C-7: Landfill Details, 1999

Sl. No.	City/Town	Existing Landfill site(s)			Future Landfill site(s)		
		No.	Area (ha)	Future life (yrs)	No.	Area (ha)	Expected life (yrs)
	1	2	3	4	5	6	7
	<b>Rajasthan</b>						
27	Ajmer MCI	-	-	-	1	100	50
28	Bhilwara M	-	-	-	1	45	3
29	Bikaner M	-	-	-	1	12	n.a.
30	Kota M.Corp.	5	n.a.	1	-	-	-
31	Sriganganagar M	-	-	-	1	6	1
	<b>Tamil Nadu</b>						
32	Kanchipuram M	-	-	-	1	0	10
33	Salem M.Corp.	4	19	n.a.	-	-	-
34	Vellore M	1	5	n.a.	1	10	n.a.
	<b>Uttar Pradesh</b>						
35	Agra M.Corp.	1	n.a.	1	1	40	15
36	Jhansi MB	5	15	20	-	-	-
	<b>West Bengal</b>						
37	Baharampur M	4	73	5-6	-	-	-
38	Burdwan M	1	2	-	1	7	25
39	Midnapur M	1	2	15	2	5	20
40	North Barrackpur M	1	1	2	-	-	-
	<b>Small States</b>						
	<b>Assam</b>						
41	Guwahati M.Corp.	-	-	-	1	n.a.	5
42	Jorhat MB	1	3	6	-	-	-
	<b>Manipur</b>						
43	Imphal MCI	-	-	-	1	n.a.	n.a.
	<b>Tripura</b>						
44	Agartala MCI	-	-	-	1	3	13
	<b>Union Territories</b>						
45	Chandigarh M.Corp.	1	45	15	-	-	-
46	Pondicherry M	-	-	-	1	4	n.a.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

## Status of Municipal Solid Waste Management

### C-7: Landfill Details, 1999

Sl. No.	City/Town	Existing Landfill site(s)			Future Landfill site(s)		
		No.	Area (ha)	Future life (yrs)	No.	Area (ha)	Expected life (yrs)
	1	2	3	4	5	6	7
<b>Class II</b>							
<b>Andhra Pradesh</b>							
1	Gudur MCI	1	1	-	1	5	30
2	Kavali MCI	2	3	10	1	4	25
3	Rajendra Nagar MCI	3	3	6	1	4	25
4	Sangareddy MCI	1	2	25	-	-	-
5	Suryapet MCI	2	20	-	1	1	5
<b>Karnataka</b>							
6	Kolar CMC	-	-	-	1	8	-
<b>Kerala</b>							
7	Changanessary MC	-	-	-	1	1	-
8	Payyanur M	-	-	-	1	5	15
9	Taliparamba M	-	-	-	1	0	20
<b>Madhya Pradesh</b>							
10	Mandsaur M	-	-	-	1	3	10
11	Vidisha M	1	5	5	-	-	-
<b>Maharashtra</b>							
12	Kamptee MCI	4	1	2	2	5	10
<b>Punjab</b>							
13	Ferozepur MCI	1	-	3	-	-	-
14	Kapurthala M	1	1	5	-	-	-
<b>Rajasthan</b>							
15	Barmer M	-	-	-	1	5	-
<b>West Bengal</b>							
16	Bishnupur M	-	-	-	1	100	25
17	Chakdaha M	-	-	-	1	0	20
18	Jangipur M	2	10	50	2	35	50
<b>Small States</b>							
<b>Nagaland</b>							
19	Kohima TC	-	-	-	2	8	25
<b>Others (Smaller than Class II towns)</b>							
<b>Small States</b>							
<b>Goa</b>							
20	Panaji MCI	1	1	10	-	-	-

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
<b>Metropolitan Cities</b>					
1	Ahmedabad M.Corp.	400	8,500	8,900	2.4
2	Bangalore M.Corp.	326	5,700	6,026	1.1
3	Bhopal M.Corp.	21	1,000	1,021	0.67
4	Calcutta M.Corp.	1,560	13,500	15,060	2.8
5	Chennai M.Corp.	300	10,130	10,430	2.3
6	Coimbatore M.Corp.	126	2,483	2,609	2.6
7	Delhi M.Corp.	1,647	42,317	43,964	5.6
8	Greater Mumbai M.Corp.	1,200	35,526	36,726	3.2
9	Hyderabad M.Corp.	460	9,500	9,960	2.3
10	Indore M.Corp.	135	2,700	2,835	2.3
11	Jaipur M.Corp.	419	7,016	7,435	3.5
12	Kanpur M.Corp.	232	4,626	4,858	2.2
13	Kochi M.Corp.	102	847	949	1.2
14	Lucknow M.Corp.	120	3,940	4,060	2.3
15	Ludhiana M.Corp.	102	2,100	2,202	2.6
16	Madurai M.Corp.	202	2,534	2,736	2.5
17	Nagpur M.Corp.	70	3,629	3,699	1.7
18	Pune M.Corp.	9	1,867	1,876	0.81
19	Surat M.Corp.	24	675	699	0.27
20	Vadodara M.Corp.	61	2,660	2,721	1.9
21	Varanasi M.Corp.	120	2,665	2,785	2.9
22	Visakhapatnam M.Corp.	188	1,587	1,775	1.2
<b>Total-Metropolitan Cities</b>		<b>7,824</b>	<b>165,502</b>	<b>173,326</b>	<b>2.6</b>
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.					

**Status of Municipal Solid Waste Management**  
**C-8: Staff Position, 1999**

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
	<b>Class I</b>				
	<b>Andhra Pradesh</b>				
1	Anantapur MCI	19	278	297	1.1
2	Chittoor M	7	238	245	1.6
3	Cuddapah MCI	26	292	318	1.8
4	Eluru M	30	384	414	1.6
5	Guntur MCI	73	863	936	1.5
6	Hindupur M	5	142	147	1.0
7	Kakinada M	15	378	393	1.4
8	Kurnool MCI	27	502	529	1.8
9	Machilipatnam M	9	300	309	1.5
10	Nandyal MCI	5	196	201	1.3
11	Nellore MCI	50	527	577	1.3
12	Nizamabad M	38	366	404	1.3
13	Ongole MCI	15	207	222	1.2
14	Qutubullapur M	5	45	50	0.18
15	Rajahmundry M.Corp.	18	820	838	2.2
16	Tenali M	21	249	270	1.5
17	Tirupati MCI	22	321	343	1.5
18	Vijaywada M.Corp.	43	2,696	2,739	3.2
19	Warangal M.Corp.	57	671	728	0.99
	<b>Bihar</b>				
20	Bihar Sharif M	7	280	287	1.1
21	Chhapra M	16	213	229	1.1
22	Gaya M.Corp.	5	n.a.	n.a.	n.a.
23	Katihar M	4	23	27	0.12
24	Munger M	4	18	22	0.13
25	Ranchi M.Corp.	45	770	815	1.3
	<b>Gujarat</b>				
26	Anand M	4	169	173	0.97
27	Bharuch M	22	698	720	4.4
28	Bhavnagar M.Corp.	4	1,400	1,404	2.5

**Status of Municipal Solid Waste Management**  
**C-8: Staff Position, 1999**

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
29	Bhuj M	16	150	166	1.3
30	Jamnagar M.Corp.	40	1,260	1,300	2.5
31	Junagadh M	23	369	392	2.2
32	Nadiad M	11	278	289	0.93
33	Navsari M	14	220	234	1.6
34	Porbandar M	10	486	496	3.4
35	Rajkot M.Corp.	26	3,024	3,050	3.0
36	Surendranagar M	4	475	479	3.2
	<b>Haryana</b>				
37	Ambala MCI	18	355	373	3.0
38	Faridabad M.Corp.	46	2,614	2,660	2.3
39	Gurgaon MCI	5	467	472	3.1
40	Hissar MCI	18	573	591	3.1
41	Karnal MCI	5	518	523	3.3
42	Rohtak MCI	4	578	582	2.4
	<b>Jammu &amp; Kashmir</b>				
43	Jammu M.Corp.	11	218	229	0.24
44	Srinagar M.Corp.	n.a.	1,700	1,700	n.a.*
	<b>Karnataka</b>				
45	Belgaum M.Corp.	15	589	604	1.3
46	Bellary CMC	7	225	232	0.76
47	Davangere MCI	10	463	473	1.0
48	Gadag-Betigeri CMC	5	286	291	1.9
49	Gulbarga M.Corp.	14	349	363	0.78
50	Hubli-Dharwad M.Corp.	7	1,163	1,170	1.4
51	Mandya M	4	8	12	0.06
52	Mangalore M.Corp.	18	380	398	0.93
53	Mysore M.Corp.	30	873	903	0.83
54	Shimoga CMC	11	573	584	2.6
55	Tumkur M	20	228	248	1.3

\* population covered by the service is not available

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
	<b>Kerala</b>				
56	Alappuzha MC	5	165	170	0.83
57	Kollam MC	26	186	212	0.83
58	Kozhikode M.Corp.	33	670	703	1.4
59	Thalaserry M	8	139	147	1.0
60	Thiruvananthapuram M.Corp.	76	966	1,042	1.7
	<b>Madhya Pradesh</b>				
61	Bhind M	10	147	157	1.9
62	Burhanpur M.Corp.	16	382	398	1.8
63	Dewas M.Corp.	n.a.	674	674	3.4
64	Guna M	9	140	149	1.1
65	Gwalior M.Corp.	158	1,364	1,522	1.5
66	Jabalpur M.Corp.	144	2,064	2,208	2.1
67	Khandwa M	24	584	608	3.3
68	Morena M	3	229	232	1.8
69	Murwara-Katni M.Corp.	54	356	410	2.0
70	Ratlam M.Corp.	38	295	333	1.5
71	Rewa M.Corp.	54	354	408	2.0
72	Satna M.Corp.	41	412	453	2.1
73	Shivpuri M	13	148	161	1.1
	<b>Maharashtra</b>				
74	Amravati M.Corp.	16	837	853	1.7
75	Aurangabad M.Corp.	28	1,718	1,746	2.0
76	Bhusawal M.Cl.	15	307	322	1.8
77	Chandrapur MCl	25	752	777	2.5
78	Dhule MCl	38	750	788	2.3
79	Ichalkaranji MCl	36	724	760	2.9
80	Jalgaon MCl	49	636	685	1.6
81	Kolhapur M.Corp.	71	1,144	1,215	2.3
82	Nanded Waghala M.Corp.	14	477	491	1.2
83	Nashik M.Corp.	38	1,881	1,919	2.2

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
84	Parbhani MCI	4	345	349	1.5
85	Solapur M.Corp.	206	973	1,179	1.1
86	Wardha M	36	322	358	2.1
87	Yavatmal MCI	10	236	246	1.8
	<b>Orissa</b>				
88	Bhubaneswar M.Corp.	38	987	1,025	1.5
89	Cuttack M.Corp.	49	1,431	1,480	2.5
90	Puri M	34	451	485	3.0
91	Rourkela M	22	669	691	3.4
92	Sambalpur M	18	571	589	3.6
	<b>Punjab</b>				
93	Amritsar M.Corp.	18	1,683	1,701	2.1
94	Bathinda MCI	11	602	613	8.7
95	Hoshiarpur MCI	9	252	261	2.3
96	Jalandhar M. Corp.	50	1,490	1,540	2.2
97	Moga MCI	10	546	556	4.6
98	Pathankot MCI	1	230	231	1.2
99	Patiala M.Corp.	15	596	611	1.8
	<b>Rajasthan</b>				
100	Ajmer MCI	8	1,469	1,477	2.7
101	Alwar M	5	350	355	1.3
102	Beawar M	4	314	318	2.2
103	Bhilwara M	31	645	676	2.9
104	Bikaner M	9	869	878	1.4
105	Jodhpur M.Corp.	60	2,525	2,585	2.5
106	Kota M.Corp.	18	n.a.	n.a.	n.a.
107	Sriganganagar M	14	961	975	4.3
	<b>Tamil Nadu</b>				
108	Cuddalore M	31	444	475	2.7
109	Dindigul M	18	451	469	2.1
110	Erode M	35	594	629	3.4

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
111	Kanchipuram M	24	70	94	0.45
112	Kumbakonam M	20	383	403	2.6
113	Nagercoil M	31	383	414	1.9
114	Rajapalaiyam M	19	287	306	2.3
115	Salem M.Corp.	75	1,638	1,713	3.7
116	Thanjavur M	27	542	569	2.5
117	Tiruchirapalli M.Corp.	90	1,959	2,049	2.4
118	Tirunelveli M.Corp.	15	176	191	0.43
119	Tirunvannamalai M	15	144	159	1.1
120	Tiruppur M	n.a.	819	819	2.8
121	Tuticorin M	36	417	453	1.9
122	Vellore M	31	430	461	2.4
	<b>Uttar Pradesh</b>				
123	Agra M.Corp.	109	2,622	2,731	3.0
124	Aligarh M.Corp.	11	n.a.	n.a.	n.a.
125	Allahabad M.Corp.	153	2,345	2,498	2.6
126	Bareilly M.Corp.	16	1,518	1,534	2.0
127	Etawah MB	15	289	304	2.1
128	Faizabad MB	17	400	417	3.4
129	Firozabad MB	10	44	54	0.29
130	Ghaziabad M.Corp.	8	1,147	1,155	1.3
131	Gorakhpur M.Corp.	28	774	802	1.6
132	Haldwani-cum-Kathgodam MB	28	378	406	2.7
133	Hapur MB	17	399	416	2.7
134	Hardwar MB	20	512	532	1.7
135	Jhansi MB	34	700	734	1.8
136	Mathura MB	30	825	855	3.1
137	Meerut M.Corp.	11	1,854	1,865	1.5
138	Mirzapur MB	34	500	534	2.9
139	Moradabad M.Corp.	63	1,001	1,064	2.1
140	Muzaffarnagar MB	20	667	687	2.6
141	Rae Bareli MB	20	531	551	4.0

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
142	Rampur MB	32	485	517	1.5
143	Saharanpur MB	51	985	1,036	3.6
144	Sitapur MB	10	295	305	2.0
145	Unnao MB	11	170	181	1.4
	<b>West Bengal</b>				
146	Asansol M.Corp.	20	487	507	1.5
147	Baharampur M	24	356	380	2.5
148	Balurghat M	2	67	69	0.51
149	Bankura M	23	450	473	3.1
150	Barasat M	6	115	121	1.2
151	Burdwan M	45	650	695	2.4
152	Halisahar M	4	21	25	n.a.*
153	Krishna Nagar M	18	214	232	1.5
154	Midnapur M	34	425	459	2.7
155	North Barrackpur M	n.a.	n.a.	n.a.	n.a.
156	Santipur M	6	170	176	1.3
157	Siliguri M.Corp.	63	140	203	0.44
	<b>Small States</b>				
	<b>Assam</b>				
158	Guwahati M.Corp.	n.a.	492	492	0.35
159	Jorhat MB	6	48	54	0.28
	<b>Manipur</b>				
160	Imphal MCI	18	200	218	0.82
	<b>Meghalaya</b>				
161	Shillong MB	11	375	386	1.7
	<b>Tripura</b>				
162	Agartala MCI	3	85	88	0.43
	<b>Union Territories</b>				
163	Chandigarh M.Corp.	141	1,638	1,779	2.0
164	Pondicherry M	38	677	715	2.3
* population covered by the service is not available					
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.					

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
<b>Class II</b>					
<b>Andhra Pradesh</b>					
1	Anakapalle M	8	40	48	0.35
2	Dharmavaram M	2	72	74	0.72
3	Gudur MCI	1	87	88	1.2
4	Kapra M	8	167	175	1.7
5	Kavali MCI	3	89	92	1.0
6	Madanapalle M	10	131	141	1.3
7	Narasaraopet M	6	138	144	1.6
8	Rajendra Nagar MCI	1	70	71	0.58
9	Sangareddy MCI	1	65	66	1.1
10	Srikakulam MCI	15	165	180	1.7
11	Srikalahasti M	3	110	113	1.6
12	Suryapet MCI	1	100	101	1.1
<b>Bihar</b>					
13	Buxar M	6	n.a.	n.a.	n.a.
14	Deoghar M	2	27	29	0.27
15	Hajipur M	22	159	181	1.4
16	Hazaribagh M	22	292	314	2.5
17	Jehanabad M	7	68	75	1.4
18	Madhubani M	9	59	68	1.2
19	Mokama M	1	92	93	n.a.*
<b>Gujarat</b>					
20	Amreli M	18	265	283	3.1
21	Ankleswar M	5	92	97	1.5
22	Dabhoi M	1	62	63	0.95
23	Dohad M	10	118	128	1.5
24	Gondal M	6	185	191	1.9
25	Jetpur M	3	167	170	1.3
26	Mahesana M	4	205	209	1.5
27	Palanpur M	2	307	309	2.6
<b>Haryana</b>					
28	Jind MCI	7	246	253	3.1
29	Kaithal MCI	9	290	299	3.8

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
30	Rewari MCI	8	243	251	2.3
31	Thanesar MCI	12	192	204	2.7
	<b>Karnataka</b>				
32	Bagalkot CMC	4	102	106	1.2
33	Chikmagalur CMC	5	109	114	1.1
34	Gokak CMC	6	56	62	0.82
35	Hospet CMC	3	173	176	1.5
36	Kolar CMC	11	112	123	1.0
37	Rabkavi-Banhatti CMC	3	56	59	0.78
38	Ramanagaram CMC	6	74	80	1.1
	<b>Kerala</b>				
39	Changanessary MC	3	125	128	2.0
40	Payyanur M	4	16	20	0.23
41	Taliparamba M	5	15	20	0.29
42	Thrissur MC	21	180	201	2.0
	<b>Madhya Pradesh</b>				
43	Hoshangabad M	13	230	243	2.3
44	Itarsi M	12	203	215	1.9
45	Khargone M	26	220	246	2.8
46	Mandsaur M	4	325	329	2.6
47	Nagda M	2	164	166	2.1
48	Neemuch M	11	288	299	2.9
49	Sehore M	6	139	145	1.4
50	Shahdol M	6	107	113	1.4
51	Vidisha M	15	254	269	2.0
	<b>Maharashtra</b>				
52	Amalner MCI	17	385	402	3.9
53	Ballarpur MCI	22	338	360	3.1
54	Bhandara M	9	176	185	2.3
55	Kamptee MCI	16	207	223	2.2
56	Manmad MCI	3	210	213	2.4
57	Ratnagiri MCI	5	76	81	1.1
58	Satara MCI	15	95	110	0.95
59	Virar MCI	2	n.a.	n.a.	n.a.

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
	<b>Punjab</b>				
60	Ferozepur MCI	8	119	127	1.6
61	Kapurthala M	2	200	202	3.8
62	Mansa MCI	2	106	108	1.6
63	Phagwara MCI	4	223	227	2.6
64	Sangrur MCI	2	128	130	2.4
	<b>Rajasthan</b>				
65	Banswara M	18	350	368	3.2
66	Barmer M	6	201	207	2.4
67	Bundi M	7	220	227	2.8
68	Churu M	2	138	140	1.4
69	Hanumangarh M	7	271	278	2.2
70	Sawai Madhopur M	2	184	186	2.1
	<b>Tamil Nadu</b>				
71	Ambur M	14	152	166	1.8
72	Arakkonam M	6	144	150	1.6
73	Attur M	2	84	86	1.3
74	Cumbum M	n.a.	n.a.	n.a.	n.a.
75	Dharmapuri M	9	202	211	3.0
76	Gudiyatham M	4	153	157	1.6
77	Nagapattinam M	16	197	213	1.8
78	Pudukkottai M	10	368	378	3.4
79	Sivakasi M	14	195	209	2.8
80	Srivilliputtur M	4	149	153	2.0
81	Tindivanam M	9	113	122	1.6
82	Udhagamandalam M	11	282	293	2.8
	<b>Uttar Pradesh</b>				
83	Auraiya MB	5	82	87	0.91
84	Balrampur MB	13	150	163	2.5
85	Basti MB	8	165	173	1.7
86	Bhadohi MB	4	77	81	1.5
87	Chandpur MB	5	96	101	2.4
88	Etah MB	7	199	206	2.3
89	Ghazipur MB	7	174	181	2.6
90	Gonda MB	2	216	218	1.9

## Status of Municipal Solid Waste Management

### C-8: Staff Position, 1999

Sl. No.	City/Town	No. of staff			Staff per 1000 population
		Supervisory	Subordinate	Total	
	1	2	3	4	5
91	Lakhimpur MB	22	229	251	2.3
92	Lalitpur MB	10	146	156	1.6
93	Mughalsarai MB	12	335	347	2.8
94	Nawabganj-Barabanki MB	9	165	174	1.8
95	Orai MB	8	285	293	2.2
96	Roorkee MB	2	15	17	0.18
	<b>West Bengal</b>				
97	Bishnupur M	8	300	308	4.5
98	Chakdaha M	5	27	32	0.60
99	Contai M	18	98	116	1.3
100	Cooch Behar M	30	150	180	1.5
101	Darjeeling M	16	163	179	1.8
102	Jalpaiguri M	38	286	324	2.8
103	Jangipur M	3	10	13	0.15
104	Katwa M	5	212	217	3.1
105	Raniganj M	8	161	169	2.1
	<b>Small States</b>				
	<b>Himachal Pradesh</b>				
106	Shimla M.Corp.	40	490	530	4.4
	<b>Nagaland</b>				
107	Kohima TC	6	80	86	0.78
	<b>Union Territories</b>				
108	Port Blair MCI	12	764	776	7.3
	<b>Others (Smaller than Class II towns)</b>				
	<b>Small States</b>				
	<b>Goa</b>				
109	Panaji MCI	15	125	140	2.2
	<b>Sikkim</b>				
110	Gangtok (Greater Gangtok) NTAC	2	100	102	1.3
	<b>Union Territories</b>				
111	Daman MCI	10	105	115	3.0
112	Silvassa CT	1	35	36	1.8
* population covered by the service is not available					
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.					

**Status of Municipal Solid Waste Management**  
**C-9: Privatisation, 1999**

Sl. No.	City/Town	Aspect privatised	Details of privatisation					
			Specific area covered	Mode used	Year of privatisation	No. of contractors	Cost before privatisation (Rs in '000)	Cost after privatisation (Rs in '000)
	1	2	3	4	5	6	7	8
<b>Metropolitan Cities</b>								
1	Bangalore M.Corp.	Sweeping	n.a.	Contract	1989	120	n.a.	n.a.
2	Calcutta M.Corp.	Transportation	-	n.a.	n.a.	n.a.	n.a.	n.a.
3	Chennai M.Corp.	Collection	3 Zones	BOO	Starting 2000	1	n.a.	n.a.
4	Delhi M.Corp.	Composting	n.a.	Contract	1999	1	n.a.	n.a.
5	Greater Mumbai M.Corp.	Transportation	n.a.	Contract	n.a.	n.a.	n.a.	n.a.
6	Hyderabad M.Corp.	Sweeping	n.a.	n.a.	1998	122	n.a.	n.a.
7	Jaipur M.Corp.	Transportation	n.a.	n.a.	1990	18	n.a.	n.a.
8	Ludhiana M.Corp.	Sweeping & collection	n.a.	CBO	n.a.	114	2827	n.a.
9	Madurai M.Corp.	Transportation	Commercial	Contract	1998	2	n.a.	n.a.
10	Nagpur M.Corp.	Collection	n.a.	Contract	1997	2	n.a.	n.a.
11	Surat M.Corp.	Collection & transportation	n.a.	n.a.	n.a.	2	n.a.	n.a.
12	Visakhapatnam M.Corp.	Sweeping & collection	n.a.	n.a.	1994	5	n.a.	n.a.
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.								

## Status of Municipal Solid Waste Management

### C-9: Privatisation, 1999

Sl. No.	City/Town	Aspect privatised	Details of privatisation					
			Specific area covered	Mode used	Year of privatisation	No. of contractors	Cost before privatisation (Rs in '000)	Cost after privatisation (Rs in '000)
	1	2	3	4	5	6	7	8
<b>Class I</b>								
<b>Andhra Pradesh</b>								
1	Anantapur MCI	Sweeping	n.a.	Contract	1997	1	11500	14500
2	Chittoor M	Sweeping & collection	n.a.	Contract	1999	1	n.a.	n.a.
3	Eluru M	Collection & disposal	n.a.	Contract	1998	2	n.a.	1800
4	Guntur MCI	Collection & disposal	n.a.	Contract	1996	3	n.a.	3864
5	Hindupur M	Sweeping & collection	n.a.	Contract	1996	1	n.a.	100
6	Nandyal MCI	Sweeping	n.a.	NGO	1998	1	n.a.	n.a.
7	Nellore MCI	Sweeping	n.a.	Contract	1998	5	23843	27812
8	Qutubullapur M	Sweeping	n.a.	Contract	1997	5	2000	4200
9	Tenali M	Collection & disposal	n.a.	Contract	1998	1	n.a.	144
10	Tirupati MCI	Sweeping & collection	n.a.	Contract	1997	4	n.a.	n.a.
11	Vijaywada M.Corp.	Disposal & treatment	n.a.	n.a.	n.a.	3	n.a.	n.a.
<b>Bihar</b>								
12	Gaya M.Corp.	Drain cleaning	n.a.	Contract	1999	4	n.a.	740
<b>Gujarat</b>								
13	Bhuj M	Collection & transportation	-	-	-	-	-	-
14	Jamnagar M.Corp.	Primary collection	n.a.	Contract	1987	6	8000	2200
15	Rajkot M.Corp.	Collection & transportation	n.a.	Contract	1990	9	n.a.	7000
<b>Jammu &amp; Kashmir</b>								
16	Srinagar M.Corp.	Collection	New colonies	Contract	1999	3	n.a.	n.a.
<b>Karnataka</b>								
17	Belgaum M.Corp.	Transportation	n.a.	Contract	1994	2	n.a.	n.a.
18	Bellary CMC	Sweeping & transportation	n.a.	Contract	1998	2	n.a.	n.a.
19	Davangere MCI	Composting	n.a.	Auction	1996	55	n.a.	n.a.
20	Hubli-Dharwad M.Corp.	Vermi-composting	n.a.	Contract	1998	1	n.a.	n.a.
21	Mysore M.Corp.	Sweeping & transportation	n.a.	Contract	1998	7	n.a.	n.a.
22	Shimoga CMC	Disposal	12 wards	Contract	1994	6	n.a.	n.a.

## Status of Municipal Solid Waste Management

### C-9: Privatisation, 1999

Sl. No.	City/Town	Aspect privatised	Details of privatisation					
			Specific area covered	Mode used	Year of privatisation	No. of contractors	Cost before privatisation (Rs in '000)	Cost after privatisation (Rs in '000)
	1	2	3	4	5	6	7	8
	<b>Kerala</b>							
23	Alappuzha MC	Disposal	n.a.	Contract	1999	1	n.a.	n.a.
	<b>Madhya Pradesh</b>							
24	Jabalpur M.Corp.	Sweeping	n.a.	Contract	1998	1	1164	770
	<b>Maharashtra</b>							
25	Amravati M.Corp.	Sweeping	n.a.	Contract	1985	2	n.a.	700
26	Aurangabad M.Corp.	Composting	entire town	Contract	1997	1	n.a.	30000
27	Nanded Waghala M.Corp.	Sweeping	entire city	Contract	1997	1	n.a.	1000
28	Nashik M.Corp.	Transportation	n.a.	Contract	1997	77	n.a.	26500
29	Parbhani MCI	Transportation	n.a.	Contract	1999	2	n.a.	1205
	<b>Orissa</b>							
30	Bhubaneswar M.Corp.	Collection	n.a.	Contract	n.a.	n.a.	n.a.	n.a.
	<b>Rajasthan</b>							
31	Ajmer MCI	Transportation	entire town	n.a.	1998	2	n.a.	n.a.
32	Sriganganagar M	Sweeping	entire town	Contract	1994	3	700	350
	<b>Tamil Nadu</b>							
33	Tiruppur M	Secondary collection	Major roads	Contract	1997	1	n.a.	n.a.
	<b>West Bengal</b>							
34	Asansol M.Corp.	Primary collection & transportation	n.a.	Contract	n.a.	7	n.a.	n.a.
	<b>Small States</b>							
	<b>Assam</b>							
35	Guwahati M.Corp.	Transportation	entire city	Contract	1988	13	n.a.	n.a.
	<b>Tripura</b>							
36	Agartala MCI	Composting	n.a.	n.a.	1999	n.a.	n.a.	n.a.
	<b>Union Territories</b>							
37	Chandigarh M.Corp.	Sweeping & collection	n.a.	Contract	1996	3	n.a.	2720
38	Pondicherry M	Sweeping & collection	n.a.	Contract	1997	1	n.a.	n.a.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

## Status of Municipal Solid Waste Management

### C-9: Privatisation, 1999

Sl. No.	City/Town	Aspect privatised	Details of privatisation					
			Specific area covered	Mode used	Year of privatisation	No. of contractors	Cost before privatisation (Rs in '000)	Cost after privatisation (Rs in '000)
	1	2	3	4	5	6	7	8
<b>Class II</b>								
<b>Andhra Pradesh</b>								
1	Kapra M	Sweeping	n.a.	n.a.	1999	3	4640	2908
2	Madanapalle M	Sweeping & collection	n.a.	Contract	n.a.	2	n.a.	97
3	Narasaraopet M	Collection & disposal	n.a.	Contract	1998	1	n.a.	1248
4	Rajendra Nagar MCI	Sweeping & collection	n.a.	NGO	1997	1	20	85
5	Srikalahasti M	Sweeping & collection	n.a.	Contract	1998	n.a.	n.a.	-
6	Suryapet MCI	Sweeping & collection	n.a.	Contract	1997	2	n.a.	n.a.
<b>Karnataka</b>								
7	Bagalkot CMC	Sweeping	n.a.	Contract	1999	2	n.a.	n.a.
8	Chikmagalur CMC	Collection & transportation	entire town	Contract	1997	1	n.a.	n.a.
9	Gokak CMC	Sweeping & transportation	n.a.	n.a.	1999	1	n.a.	n.a.
10	Rabkavi-Banhatti CMC	Transportation	n.a.	Auction	n.a.	n.a.	n.a.	n.a.
<b>Maharashtra</b>								
11	Bhandara M	Nala cleaning	n.a.	n.a.	1999	1	n.a.	n.a.
12	Kamptee MCI	Sweeping & collection	commercial	Contract	1999	1	25	18
13	Manmad MCI	Transportation	n.a.	Contract	1999	1	300	147
14	Virar MCI	Sweeping & collection	entire town	Contract	1999	1	4500	3500
<b>Others (Smaller than Class II towns)</b>								
<b>Small States</b>								
<b>Goa</b>								
15	Panaji MCI	Collection, transportation & disposal	Restaurants	Contract	1995	2	n.a.	n.a.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-10: Revenue Receipts for Solid Waste Management, 1997-98**

Sl. No.	City/Town	Rates of sanitation		Revenue Receipts (Rs. in '000)				
		Unit	Rate (%)	Sanitation tax/ cess	Sale of compost	Sale of rubbish	Others	Total
	1	2	3	4	5	6	7	8
<b>Metropolitan Cities</b>								
1	Ahmedabad M.Corp.	-	-	-	91	-	1,984	2,075
2	Bhopal M.Corp.	-	-	-	80	-	-	80
3	Delhi M.Corp.	-	-	-	n.a.	-	6900*	6,900
4	Chennai M.Corp.							2,755,700
5	Greater Mumbai M.Corp.	-	-	-	-	-	80000**	80,000
6	Lucknow M.Corp.	-	-	-	-	102	-	102
7	Nagpur M.Corp.	n.a.	n.a.	48,300	-	-	-	48,300
8	Pune M.Corp.	% of arv	13	116,600	-	-	-	116,600
9	Surat M.Corp.^	% of arv	6, 12, 24		12,622			12,622
* Private removal charges (54 lakh) and Other receipts (15 lakh) ; ** Administration Charges								
arv = Annual rateable value ; ^ Different rates of sanitation are for residential, non-residential and commercial respectively in Surat M.Corp								
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.								

**Status of Municipal Solid Waste Management**  
**C-10: Revenue Receipts for Solid Waste Management, 1997-98**

Sl. No.	City/Town	Rates of sanitation		Revenue Receipts (Rs. in '000)				
		Unit	Rate (%)	Sanitation tax/ cess	Sale of compost	Sale of rubbish	Others	Total
	1	2	3	4	5	6	7	8
<b>Class I</b>								
<b>Andhra Pradesh</b>								
1	Eluru M	n.a.	n.a.	1,522	5	-	107	1,634
2	Vijaywada M.Corp.	-	-	-	-	-	1,500	1,500
<b>Bihar</b>								
3	Bihar Sharif M	% of arv	8	1,480	-	-	-	1,480
<b>Gujarat</b>								
4	Bhavnagar M.Corp.	% of arv	9	14,916	-	-	-	14,916
5	Jamnagar M.Corp.	n.a.	n.a.	5,529	-	-	177	5,706
6	Navsari M	% of arv	4	2,056	-	-	-	2,056
7	Porbandar M	-	-	-	39	-	-	39
8	Rajkot M.Corp.	% of arv	4-10	26,451	-	-	-	26,451
9	Surendranagar M	-	-	-	-	-	74	74
<b>Karnataka</b>								
10	Gadag-Betigeri CMC	-	-	-	2	-	-	2
11	Gulbarga M.Corp.	n.a.	n.a.	121	-	-	-	121
12	Mysore M.Corp.	-	-	-	-	187	-	187
13	Shimoga CMC	n.a.	n.a.	2,080	-	-	-	2,080
14	Tumkur M	n.a.	n.a.	693	-	-	-	693
<b>Madhya Pradesh</b>								
15	Burhanpur M.Corp.	-	-	-	103	-	-	103
16	Guna M	-	-	-	5	-	-	5
17	Jabalpur M.Corp.	Rs./year	180	1,489	-	-	2,595	4,084
18	Khandwa M	0	0	-	48	-	-	48
19	Morena M	Rs./year	150	384	-	-	-	384
20	Murwara-Katni M.Corp.	n.a.	n.a.	70	-	16	628	714
21	Satna M.Corp.	-	-	-	-	2	-	2
<b>Maharashtra</b>								
22	Amravati M.Corp.	% of arv	24	36	7	-	-	43
23	Aurangabad M.Corp.	% of arv	1	6,481	-	-	-	6,481
24	Bhusawal M.Cl.	n.a.	n.a.	2,366	-	-	-	2,366
25	Ichalkaranji MCI	-	-	-	18	-	-	18
26	Kolhapur M.Corp.	% of arv	30	16,507	-	-	-	16,507
27	Nanded Waghala M.Corp.	n.a.	n.a.	845	-	-	-	845
28	Nashik M.Corp.	% of arv	5	7,049	-	-	-	7,049
29	Parbhani MCI	-	-	-	-	27	-	27
30	Solapur M.Corp.	n.a.	n.a.	14,662	204	-	-	14,866

**Status of Municipal Solid Waste Management**  
**C-10: Revenue Receipts for Solid Waste Management, 1997-98**

Sl. No.	City/Town	Rates of sanitation		Revenue Receipts (Rs. in '000)				
		Unit	Rate (%)	Sanitation tax/ cess	Sale of compost	Sale of rubbish	Others	Total
	1	2	3	4	5	6	7	8
	<b>Tamil Nadu</b>							
31	Dindigul M	-	-	-	-	113	-	113
32	Kanchipuram M	n.a.	n.a.	1,657	-	-	2,558	4,215
33	Salem M.Corp.	% of arv	1	4,126	-	-	-	4,126
34	Thanjavur M	-	-	-	146	-	-	146
35	Tiruchirapalli M.Corp.	% of arv	2	7,811	-	-	-	7,811
36	Tirunelveli M.Corp.	-	-	-	-	6	-	6
37	Tirunvannamalai M	-	-	-	2	-	-	2
38	Tiruppur M	% of arv	2	2,737	-	-	-	2,737
39	Tuticorin M	-	-	-	-	1	-	1
	<b>Uttar Pradesh</b>							
40	Agra M.Corp.	-	-	-	-	-	99	99
41	Bareilly M.Corp.	-	-	-	-	300	-	300
42	Etawah MB	-	-	-	21	-	-	21
43	Haldwani-cum-Kathgodam	% of arv	10	3,000	-	n.a.	-	3,000
44	Jhansi MB	-	-	-	11	26	-	37
45	Rampur MB	-	-	-	21	-	-	21
46	Saharanpur MB	n.a.	n.a.	1,005	-	-	-	1,005
	<b>West Bengal</b>							
47	Balurghat M	-	-	-	4	-	-	4
48	Baharampur M	-	-	-	5	-	-	5
49	Krishna Nagar M	-	-	-	-	-	34	34
50	Midnapur M	-	-	-	38	-	-	38
51	North Barrackpur M	-	-	-	-	-	86	86
52	Santipur M	-	-	-	12	-	-	12
	<b>Small States</b>							
	<b>Assam</b>							
53	Guwahati M.Corp.	*/% of arv	3	4,962	-	-	-	4,962
	<b>Meghalaya</b>							
54	Shillong MB	% of arv	variable	1,674	-	-	-	1,674
	<b>Tripura</b>							
55	Agartala MCI	% of arv	3	90	-	-	-	90
	<b>Union Territories</b>							
56	Pondicherry M	-	-	-	20	-	-	20
arv = Annual rateable value								
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.								

**Status of Municipal Solid Waste Management**  
**C-10: Revenue Receipts for Solid Waste Management, 1997-98**

Sl. No.	City/Town	Rates of sanitation		Revenue Receipts (Rs. in '000)				
		Unit	Rate (%)	Sanitation tax/ cess	Sale of compost	Sale of rubbish	Others	Total
	1	2	3	4	5	6	7	8
<b>Class II</b>								
<b>Andhra Pradesh</b>								
1	Dharmavaram M	-	-	0	57	0	0	57
2	Gudur MCI	-	-	0	0	0	12	12
3	Kapra M	*% of arv	2	548	0	0	0	548
4	Kavali MCI	-	-	0	27	0	0	27
5	Suryapet MCI	% of arv	2	493	0	0	0	493
<b>Karnataka</b>								
6	Chikmagalur CMC	n.a.	n.a.	1,050	0	0	0	1,050
7	Rabkavi-Banhatti CMC	% of arv	10	130	166	0	0	296
8	Ramanagaram CMC	n.a.	n.a.	173	0	0	0	173
<b>Kerala</b>								
9	Payyanur M	n.a.	n.a.	745	0	0	0	745
10	Taliparamba M	% of arv	3	110	0	0	0	110
<b>Madhya Pradesh</b>								
11	Hoshangabad M	Rs./year	150	97	0	0	0	97
12	Itarsi M	Rs./year	150	331	0	0	0	331
13	Khargone M	0	0	0	17	0	0	17
14	Mandsaur M	Rs./year	150	705	3	0	0	708
15	Neemuch M	Rs./year	50	n.a.	51	0	0	51
<b>Tamil Nadu</b>								
16	Attur M	0	0	0	0	3	0	3
17	Cumbum M	0	0	0	9	0	0	9
<b>Uttar Pradesh</b>								
18	Etah MB	0	0	0	0	0	20	20
19	Lalitpur MB	0	0	0	5	0	0	5
20	Roorkee MB	0	0	0	1	0	0	1
<b>West Bengal</b>								
21	Darjeeling M	n.a.	n.a.	194	0	0	0	194
22	Raniganj M	0	0	0	0	280	0	280
arv = Annual rateable value								
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.								

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					Total
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	
	1	2	3	4	5	6	7
<b>Metropolitan Cities</b>							
1	Ahmedabad M.Corp.	316,242	10,707	17	0	19,188	346,154
2	Bangalore M.Corp.	279,700	8,778	124,112	0	9,800	422,390
3	Bhopal M.Corp.	13,005	n.a.	0	0	0	13,005
4	Calcutta M.Corp.	Break-up not available					794,309
5	Chennai M.Corp.	455,467	37,270	39,071	28,983	32,895	593,686
6	Coimbatore M.Corp.	168,515	4,606	0	0	0	173,121
7	Delhi M.Corp.	1,392,200	0	0	11,935	66,720	1,470,855
8	Greater Mumbai M.Corp.	2,750,000	50,000	200,000	750,000	0	3,750,000
9	Hyderabad M.Corp.	250,000	0	0	25,000	0	275,000
10	Indore M.Corp.	n.a					
11	Jaipur M.Corp.	257,241	25,782	0	0	54,000	337,023
12	Kanpur M.Corp.	227,326	43,515	0	0	0	270,841
13	Kochi M.Corp.	18,770	2,420	0	0	0	21,190
14	Lucknow M.Corp.	21,000	12,000	4,000	0	0	37,000
15	Ludhiana M.Corp.	132,773	380	0	0	0	133,153
16	Madurai M.Corp.	101,751	14	378	10,027	0	112,170
17	Nagpur M.Corp.	158,755	8,755	3,266	0	0	170,776
18	Pune M.Corp.	233,314	n.a.	0	224	0	233,538
19	Surat M.Corp.	11,855	55,617	0	0	0	67,472
20	Vadodara M.Corp.	4,112	718	1,354	13	0	6,197
21	Varanasi M.Corp.	234,293	10,463	6,126	0	0	250,883
22	Visakhapatnam M.Corp.	144,370	0	0	0	17,630	162,000

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					Total	
		Salary and wages	Consumables	Vehicle repair	Contingency	Others		
	1	2	3	4	5	6	7	
<b>Class I</b>								
<b>Andhra Pradesh</b>								
1	Anantapur MCI	8,998	950	230	1,030	0	11,208	
2	Chittoor M	950	500	39	0	600	2,089	
3	Cuddapah MCI	9,000	300	384	120	0	9,804	
4	Eluru M	11,853	260	300	2,036	1,080	15,529	
5	Guntur MCI	30,100	0	0	0	2,948	33,048	
6	Hindupur M	5,224	200	150	0	60	5,634	
7	Kakinada M	9,443	600	300	0	732	11,075	
8	Kurnool MCI	9,256	0	0	0	973	10,229	
9	Machilipatnam M	14,400	250	0	0	0	14,650	
10	Nandyal MCI	700	325	100	400	500	2,025	
11	Nellore MCI	24,868	1,311	471	1,994	0	28,643	
12	Nizamabad M	20,400	0	0	0	0	20,400	
13	Ongole MCI	8,697	200	169	2,170	0	11,236	
14	Qutubullapur M	150	50	30	500	2,400	3,130	
15	Rajahmundry M.Corp.	20,897	514	130	0	6,300	27,841	
16	Tenali M	3,671	0	90	1,516	0	5,277	
17	Tirupati MCI	9,333	3,806	0	0	0	13,139	
18	Vijaywada M.Corp.	62,147	6,500	1,300	1,300	6,400	77,647	
19	Warangal M.Corp.	2,073	0	182	3,262	0	5,517	
<b>Bihar</b>								
20	Bihar Sharif M	6,121	136	150	10	0	6,417	
21	Chhapra M	Break-up not available						14,660
22	Gaya M.Corp.	150	0	0	0	0	150	
23	Katihar M	8,113	109	121	6	0	8,349	
24	Munger M	n.a.						
25	Ranchi M.Corp.	30,000	800	200	0	0	31,000	
<b>Gujarat</b>								
26	Anand M	n.a.						
27	Bharuch M	23,346	1,410	875	477	567	26,675	
28	Bhavnagar M.Corp.	60,000	500	200	0	3,500	64,200	
29	Bhuj M	7,426	0	372	0	2,698	10,495	
30	Jamnagar M.Corp.	45,421	0	0	335	0	45,756	
31	Junagadh M	11,888	0	0	0	1,560	13,448	
32	Nadiad M	13,780	413	187	0	0	14,380	

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	Total
	1	2	3	4	5	6	7
33	Navsari M	6,636	4,244	0	0	0	10,881
34	Porbandar M	11,503	0	0	434	0	11,937
35	Rajkot M.Corp.	81,376	9,201	0	0	1,773	92,350
36	Surendranagar M	11,506	0	10	0	0	11,516
	<b>Haryana</b>						
37	Ambala MCI	12,741	199	53	48	0	13,041
38	Faridabad M.Corp.	249,890	4,574	2,243	0	0	256,707
39	Gurgaon MCI	17,815	552	0	0	0	18,367
40	Hissar MCI	1,239	247	493	0	0	1,979
41	Karnal MCI	20,380	612	0	0	0	20,992
42	Rohtak MCI	18,926	411	298	425	0	20,060
	<b>Jammu &amp; Kashmir</b>						
43	Jammu M.Corp.			n.a.			
44	Srinagar M.Corp.	14,500	130	2,000	2,000	0	18,630
	<b>Karnataka</b>						
45	Belgaum M.Corp.	30,483	1,237	437	1,126	2,881	36,164
46	Bellary CMC	14,721	1,486	559	2,710	138	19,614
47	Davangere MCI	20,478	1,010	260	249	0	21,997
48	Gadag-Betigeri CMC	10,733	344	40	0	0	11,117
49	Gulbarga M.Corp.	16,188	703	124	2,230	3,163	22,408
50	Hubli-Dharwad M.Corp.	55,776	1,945	876	2,112	2,182	62,891
51	Mandya M	12,417	261	56	76	30	12,840
52	Mangalore M.Corp.	12,246	1,787	1,538	45	5,575	21,191
53	Mysore M.Corp.	42,729	3,468	1,064	2,214	475	49,950
54	Shimoga CMC	30,240	1,262	868	0	475	32,845
55	Tumkur M	3,547	57	40	0	0	3,644
	<b>Kerala</b>						
56	Alappuzha MC	11,761	265	0	1,087	0	13,113
57	Kollam MC	15,655	0	0	162	0	15,817
58	Kozhikode M.Corp.	34,737	1,530	0	2,541	0	38,808
59	Thalaserry M	8,841	419	768	0	0	10,028
60	Thiruvananthapuram M.Corp.	47,198	8,313	0	688	0	56,199
	<b>Madhya Pradesh</b>						
61	Bhind M*	5,612	202	168	3	116	6,101
62	Burhanpur M.Corp.	14,062	1,224	0	0	0	15,286

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	Total
	1	2	3	4	5	6	7
63	Dewas M.Corp.	16,390	449	0	121	1,005	17,964
64	Guna M	4,800	3,300	125	450	0	8,675
65	Gwalior M.Corp.	5,984	1,899	625	0	0	8,508
66	Jabalpur M.Corp.	75,716	0	257	625	8,784	85,383
67	Khandwa M	16,938	256	96	0	0	17,290
68	Morena M			n.a.			
69	Murwara-Katni M.Corp.	14,954	327	220	135	55	15,691
70	Ratlam M.Corp.	14,750	203	0	99	0	15,051
71	Rewa M.Corp.	12,700	420	50	50	0	13,220
72	Satna M.Corp.	7,112	706	210	0	0	8,028
73	Shivpuri M	5,700	360	312	120	0	6,492
	<b>Maharashtra</b>						
74	Amravati M.Corp.	34,760	0	0	0	1,050	35,810
75	Aurangabad M.Corp.	54,678	3,041	5,631	644	542	64,536
76	Bhusawal M.Cl.	10,498	701	194	1,482	0	12,875
77	Chandrapur MCl	18,007	2,003	0	1,471	1,007	22,487
78	Dhule MCl	21,091	780	100	10	60	22,041
79	Ichalkaranji MCl	1,263	149	171	0	0	1,583
80	Jalgaon MCl	26,469	0	808	0	5,292	32,569
81	Kolhapur M.Corp.	43,865	1,279	0	0	3,158	48,301
82	Nanded Waghala M.Corp.	22,737	642	1,019	491	1,326	26,215
83	Nashik M.Corp.	8,857	0	0	120	0	8,977
84	Parbhani MCl	8,801	406	403	116	80	9,806
85	Solapur M.Corp.	10,076	2,465	2,438	187	844	16,010
86	Wardha M	10,987	164	901	682	0	12,735
87	Yavatmal MCl	7,404	271	283	2,984	0	10,942
	<b>Orissa</b>						
88	Bhubaneswar M.Corp.			n.a.			
89	Cuttack M.Corp.			n.a.			
90	Puri M			n.a.			
91	Rourkela M			n.a.			
92	Sambalpur M			n.a.			
	(* Figures for Bhind are for 1996-97)						

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					Total
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	
	1	2	3	4	5	6	7
	<b>Punjab</b>						
93	Amritsar M.Corp.	96,770	9,400	2,471	1,533	0	110,174
94	Bathinda MCI	2,700	730	600	500	0	4,530
95	Hoshiarpur MCI	12,726	95	102	332	0	13,255
96	Jalandhar M. Corp.	107,320	9,125	2,250	0	0	118,695
97	Moga MCI	4,500	600	100	200	0	5,400
98	Pathankot MCI	12,157	350	350	77	0	12,934
99	Patiala M.Corp.	22,500	1,650	0	0	0	24,150
	<b>Rajasthan</b>						
100	Ajmer MCI	127,000	140,000	0	0	0	267,000
101	Alwar M	16,652	0	0	5,555	525	22,731
102	Beawar M	13,230	285	325	278	940	15,058
103	Bhilwara M	47,595	5,041	0	0	41,024	93,660
104	Bikaner M	48,607	761	407	6,678	0	56,453
105	Jodhpur M.Corp.	118,046	3,755	0	0	5,784	127,585
106	Kota M.Corp.			n.a.			
107	Sriganganagar M	18,793	12	796	0	0	19,601
	<b>Tamil Nadu</b>						
108	Cuddalore M	10,577	0	0	751	0	11,328
109	Dindigul M	16,053	0	0	601	0	16,654
110	Erode M	18,464	0	0	3,014	0	21,478
111	Kanchipuram M	965	0	0	1,735	5,595	8,295
112	Kumbakonam M	12,635	0	1,594	0	0	14,229
113	Nagercoil M	14,592	0	0	39	0	14,631
114	Rajapalayam M	11,670	1,016	0	0	0	12,686
115	Salem M.Corp.	49,690	10,993	7,207	3,472	0	71,362
116	Thanjavur M	17,298	0	0	38	0	17,336
117	Tiruchirapalli M.Corp.	64,792	4,721	0	0	0	69,513
118	Tirunelveli M.Corp.	28,905	0	0	218	0	29,123
119	Tirunvannamalai M	9,972	1,184	0	805	0	11,961
120	Tiruppur M	26,901	4,890	0	0	0	31,791
121	Tuticorin M	21,952	0	0	1,144	0	23,096
122	Vellore M	13,576	0	0	824	0	14,400

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					Total
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	
	1	2	3	4	5	6	7
	<b>Uttar Pradesh</b>						
123	Agra M.Corp.	120,368	9,966	0	0	0	130,334
124	Aligarh M.Corp.	7,000	600	400	0	0	8,000
125	Allahabad M.Corp.	119,651	16,643	0	0	0	136,294
126	Bareilly M.Corp.	60,000	2,448	830	0	0	63,278
127	Etawah MB	2,200	2,400	25	0	0	4,625
128	Faizabad MB	20,400	240	50	0	0	20,690
129	Firozabad MB	21,869	7,150	0	0	96	29,114
130	Ghaziabad M.Corp.	61,511	0	0	0	19,580	81,090
131	Gorakhpur M.Corp.	34,658	4,517	0	0	0	39,174
132	Haldwani-cum-Kathgodam MB	25,200	0	100	50	0	25,350
133	Hapur MB	11,869	0	548	0	0	12,417
134	Hardwar MB	36,408	1,572	0	0	0	37,980
135	Jhansi MB	22,567	1,081	287	51	62	24,048
136	Mathura MB	28,174	641	29	121	0	28,965
137	Meerut M.Corp.	81,029	12,150	0	0	13,064	106,243
138	Mirzapur MB	36,473	Expenditure on other heads not available				36,473
139	Moradabad M.Corp.	n.a.					
140	Muzaffarnagar MB	36,631	688	252	1,762	0	39,333
141	Rae Bareli MB	Break-up not available					31,280
142	Rampur MB	16,707	3,098	0	0	0	19,805
143	Saharanpur MB	40,355	6,748	0	0	0	47,103
144	Sitapur MB	596	0	0	0	11,824	12,419
145	Unnao MB	Break-up not available					5,079
	<b>West Bengal</b>						
146	Asansol M.Corp.	7,192	0	0	0	6,534	13,726
147	Baharampur M	14,236	174	120	0	0	14,531
148	Balurghat M	1,620	565	100	15	0	2,300
149	Bankura M	12,927	232	105	48	0	13,312
146	Barasat M	3,893	0	435	0	0	4,327
150	Burdwan M	n.a.					
151	Halisahar M	n.a.					
152	Krishna Nagar M	11,613	329	0	321	66	12,328
153	Midnapur M	11,000	250	80	2,000	675	14,005
154	North Barrackpur M	3,955	155	58	14	290	4,472

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	Total
	1	2	3	4	5	6	7
155	Santipur M	4,337	144	141	2	0	4,624
156	Siliguri M.Corp.	20,417	0	0	0	5,333	25,749
	<b>Small States</b>						
	<b>Assam</b>						
157	Guwahati M.Corp.	15,600	3,600	4,320	1,200	0	24,720
158	Jorhat MB			n.a.			
	<b>Manipur</b>						
159	Imphal MCI	4,662	378	631	0	0	5,670
160	<b>Meghalaya</b>						
161	Shillong MB	7,780	467	99	149	137	8,632
	<b>Tripura</b>						
162	Agartala MCI	7,875	1,150	1,100	300	0	10,425
	<b>Union Territories</b>						
163	Chandigarh M.Corp.	97,004	4,007	2,410	9,593	0	113,014
164	Pondicherry M	22,469	238	694	94	0	23,495
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.							

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					Total
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	
	1	2	3	4	5	6	7
<b>Class II</b>							
<b>Andhra Pradesh</b>							
1	Anakapalle M	300	120	60	0	0	480
2	Dharmavaram M			n.a.			
3	Gudur MCI	3,000	96	90	0	0	3,186
4	Kapra M	5,577	89	131	0	0	5,797
5	Kavali MCI	3,943	165	135	64	0	4,307
6	Madanapalle M	5,199	450	0	800	0	6,449
7	Narasaraopet M	2,722	90	50	30	559	3,451
8	Rajendra Nagar MCI			n.a.			
9	Sangareddy MCI	2,686	112	54	0	485	3,337
10	Srikakulam MCI			n.a.			
11	Srikalahasti M		Break-up not available				4,177
12	Suryapet MCI	3,844	166	53	338	973	5,374
<b>Bihar</b>							
13	Buxar M			n.a.			
14	Deoghar M	88	94	14	0	0	197
15	Hajipur M	3,153	45	20	0	91	3,309
16	Hazaribagh M			n.a.			
17	Jehanabad M	1,771	30	25	15	0	1,842
18	Madhubani M	1,721	19	20	11	0	1,772
19	Mokama M			n.a.			
<b>Gujarat</b>							
20	Amreli M	714	87	299	0	0	1,100
21	Ankleswar M	3,575	87	443	0	32	4,137
22	Dabhoi M	2,854	0	0	0	156	3,010
23	Dohad M			n.a.			
24	Gondal M	8,581	290	0	0	0	8,872
25	Jetpur M	7,118	153	822	18	0	8,111
26	Mahesana M	4,743	345	656	358	0	6,103
27	Palanpur M	10,363	564	124	26	0	11,077
<b>Haryana</b>							
28	Jind MCI	8,176	63	109	68	0	8,416
29	Kaithal MCI	8,352	85	50	24	0	8,511

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	Total
	1	2	3	4	5	6	7
30	Rewari MCI	12,199	99	25	180	0	12,504
31	Thanesar MCI	7,973	81	74	305	0	8,433
	<b>Karnataka</b>						
32	Bagalkot CMC	4,473	258	97	486	0	5,314
33	Chikmagalur CMC	4,685	0	0	0	600	5,285
34	Gokak CMC	1,973	89	133	0	0	2,195
35	Hospet CMC			n.a			
36	Kolar CMC	4,284	2,275	1,806	0	2,000	10,365
37	Rabkavi-Banhatti CMC	2,629	308	8	0	0	2,945
38	Ramanagaram CMC	2,199	0	0	0	647	2,846
	<b>Kerala</b>						
39	Changanessary MC	5,948	268	0	0	470	6,686
40	Payyanur M	1,070	12	40	2	0	1,124
41	Taliparamba M	428	0	100	0	0	528
42	Thrissur MC	13,356	1,133	0	0	0	14,489
	<b>Madhya Pradesh</b>						
43	Hoshangabad M	1,528	311	197	267	1,762	4,065
44	Itarsi M	5,147	576	46	0	0	5,769
45	Khargone M	4,468	0	1,429	0	0	5,897
46	Mandsaur M	8,826	532	164	2,510	23	12,055
47	Nagda M	4,290	154	491	72	0	5,007
48	Neemuch M	7,945	848	0	239	212	9,243
49	Sehore M	5,655	417	22	24	0	6,119
50	Shahdol M	2,636	116	179	0	0	2,932
51	Vidisha M	7,109	243	203	0	92	7,648
	<b>Maharashtra</b>						
52	Amalner MCI			n.a.			
53	Ballarpur MCI	9,265	170	292	62	44	9,833
54	Bhandara M	5,448	125	172	1,124	0	6,869
55	Kamptee MCI	7,362	47	50	14	0	7,473
56	Manmad MCI	8,800	1,200	350	0	0	10,350
57	Ratnagiri MCI	4,352	105	164	1,420	0	6,040
58	Satara MCI	6,805	1,017	200	0	0	8,021
59	Virar MCI			n.a.			

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					Total
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	
	1	2	3	4	5	6	7
	<b>Punjab</b>						
60	Ferozepur MCI	4,800	216	54	32	0	5,102
61	Kapurthala M	8,367	265	95	290	0	9,017
62	Mansa MCI	13,469	307	80	70	0	13,926
63	Phagwara MCI	8,403	500	80	320	0	9,303
64	Sangrur MCI	6,138	0	200	300	167	6,805
	<b>Rajasthan</b>						
65	Banswara M	1,600	240	120	40	0	2,000
66	Barmer M	8,705	147	130	775	0	9,756
67	Bundi M	1,500	250	50	0	0	1,800
68	Churu M	8,362	415	0	0	10	8,787
69	Hanumangarh M	13,787	935	0	0	0	14,722
70	Sawai Madhopur M			n.a.			
	<b>Tamil Nadu</b>						
71	Ambur M	5,510	0	106	0	0	5,616
72	Arakkonam M	4,307	0	192	0	0	4,499
73	Attur M	4,952	0	0	147	0	5,099
74	Cumbum M		Break-up not available				427
75	Dharmapuri M	7,471	211	0	1,070	867	9,619
76	Gudiyatham M	4,907	0	0	35	0	4,942
77	Nagapattinam M	7,501	0	0	182	0	7,683
78	Pudukkottai M	12,888	0	1,447	0	0	14,335
79	Sivakasi M	7,996	n.a.	n.a.	69	n.a.	8,065
80	Srivilliputtur M	6,122	86	0	0	0	6,208
81	Tindivanam M	5,913	0	0	498	0	6,411
82	Udhagamandalam M	10,956	0	0	59	0	11,015
	<b>Uttar Pradesh</b>						
83	Auraiya MB	4,145	37	59	0	0	4,241
84	Balrampur MB		Break-up not available				5,407
85	Basti MB	5,686	767	0	0	0	6,453
86	Bhadohi MB	6,742	64	39	0	4,235	11,080
87	Chandpur MB	7,437	52	19	0	0	7,508
88	Etah MB	10,033	2,372	0	5,528	0	17,933
89	Ghazipur MB	8,960	2,660	0	0	0	11,620
90	Gonda MB	1,010	432	98	0	0	1,540

**Status of Municipal Solid Waste Management**  
**C-11: Expenditure on Solid Waste Management, 1997-98**

Sl. No.	City/Town	Revenue Expenditure (Rs. in '000)					
		Salary and wages	Consumables	Vehicle repair	Contingency	Others	Total
	1	2	3	4	5	6	7
91	Lakhimpur MB	9,398	29	110	0	0	9,537
92	Lalitpur MB	5,948	71	21	3	35	6,078
93	Mughalsarai MB	13,756	40,946	0	0	0	54,703
94	Nawabganj-Barabanki MB	8,350	200	495	0	0	9,045
95	Orai MB	8,926	171	0	0	0	9,097
96	Roorkee MB	498	254	51	0	0	803
	<b>West Bengal</b>						
97	Bishnupur M	4,058	365	180	0	0	4,603
98	Chakdaha M	980	30	18	0	0	1,028
99	Contai M	2,809	24	33	24	0	2,889
100	Cooch Behar M	7,053	392	334	33	0	7,811
101	Darjeeling M	9,829	327	0	0	0	10,156
102	Jalpaiguri M	9,530	486	386	28	0	10,430
103	Jangipur M	540	26	10	0	0	576
104	Katwa M	3,791	152	146	70	0	4,159
105	Raniganj M	3,239	133	221	27	0	3,619
	<b>Small States</b>						
	<b>Himachal Pradesh</b>						
106	Shimla M.Corp.	25,415	1,042	648	0	20,986	48,091
	<b>Nagaland</b>						
107	Kohima TC				n.a.		
	<b>Union Territories</b>						
108	Port Blair MCI				n.a.		
	<b>Others(Smaller than Class II towns)</b>						
	<b>Small States</b>						
	<b>Goa</b>						
109	Panaji MCI	14,529	719	494	0	0	15,741
	<b>Sikkim</b>						
110	Gangtok (Greater Gangtok) NTAC	1,100	400	0	0	0	1,500
	<b>Union Territories</b>						
111	Daman MCI	2,378	107	576	0	0	3,060
112	Silvassa CT				n.a.		

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-12: Capital Works Undertaken between 1994 and 1999**

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding
				started	completed		
	1	2	3	4	5	6	7
<b>Metropolitan Cities</b>							
1	Ahmedabad M.Corp.	Purchase of equipment	Waste collection	1996	1998	11,901	Self financed
2	Delhi M.Corp.	Purchase of vehicles/ equipment	Improving transportation	1994	1999	530,300	State govt.
3	Greater Mumbai M.Corp.	Purchase of vehicles/ equipment	Waste collection	1997	1999	30,000	n.a.
4	Kochi M.Corp.	Acquiring land	Treatment of waste	1998	-	n.a.	HUDCO
		Purchase of vehicles	Waste disposal	1995	1995	n.a.	Self/ State govt.
5	Ludhiana M.Corp.	n.a.	-	-	-	-	-
6	Nagpur M.Corp.	Purchase of equipment	Waste collection	1997	ongoing	30,000	State govt.
7	Pune M.Corp.	Purchase of equipment	Waste collection	n.a.	-	n.a.	n.a.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-12: Capital Works Undertaken between 1994 and 1999**

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding
				started	completed		
	1	2	3	4	5	6	7
<b>Class I</b>							
<b>Gujarat</b>							
1	Anand M	Purchase of vehicles	Improving transportation	1996	-	1,000	Self financed
		Purchase of vehicles	Improving transportation	1996	1996	240	Self financed
2	Bharuch M	Purchase of vehicles	Improving transportation	1996	1998	538	Self financed
		Purchase of equipment	Waste collection	1996	1998	878	Self financed
3	Bhuj M	Purchase of vehicles	Improving transportation	1998	-	400	State govt.
		Purchase of vehicles	Improving transportation	1998	1999	100	GMFB
4	Jamnagar M.Corp.	Purchase of vehicles	Improving transportation	1997	-	250	Self financed
		Purchase of vehicles	Improving transportation	1997	1999	2	Self financed
5	Junagadh M	Purchase of vehicles	Improving transportation	1994	1995	n.a.	n.a.
6	Nadiad M	Purchase of vehicles	Improving transportation	1996	-	19,754	Self financed
		Purchase of vehicles	Improving transportation	1997	1997	1,847	Self financed
7	Navsari M	Purchase of vehicles	Improving transportation	1995	ongoing	550	Self financed
8	Porbandar M	Purchase of vehicles	Improving transportation	1995	-	153	Self financed
		Purchase of vehicles	Improving transportation	1996	1996	831	Self financed
9	Rajkot M.Corp.	Purchase of vehicles	Improving transportation	1993	-	3,400	Self financed
10	Surendranagar M	Purchase of vehicles	Improving transportation	1994	-	1,750	GMFB
<b>Haryana</b>							
11	Ambala MCI	Purchase of vehicles	Improving transportation	1994	-	149	State govt.
		Purchase of vehicles	Improving transportation	1995	1999	610	Self/ State govt.
12	Karnal MCI	Purchase of vehicles	Improving transportation	n.a.	n.a.	1,392	Self financed
<b>Jammu &amp; Kashmir</b>							
13	Srinagar M.Corp.	Earth filling / fencing	Landfill	1997	ongoing	15,000	State govt.
<b>Karnataka</b>							
14	Tumkur M	n.a.	Waste disposal	1998	ongoing	5,000	
<b>Kerala</b>							
15	Kozhikode M.Corp.	Compost plant	Treatment of waste	1998	2000	n.a.	State govt. (KUDFC)
16	Thalaserry M	Compost plant	Treatment of waste	1998	1998	150	Self financed
		Purchase of vehicles	Improving transportation	1996	1997	810	World Bank

**Status of Municipal Solid Waste Management**  
**C-12: Capital Works Undertaken between 1994 and 1999**

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding
				started	completed		
	1	2	3	4	5	6	7
	<b>Maharashtra</b>						
17	Nashik M.Corp.	Compost plant	Treatment of waste	1999	2000	600	Self financed
	<b>Punjab</b>						
18	Moga MCI	Purchase of vehicles	Improving transportation	1996	-	800	Self financed
		Purchase of vehicles	Improving transportation	1997	1997	570	Self financed
	<b>Rajasthan</b>						
19	Ajmer MCI	n.a.	Improving transportation	1998	-	544	Self financed
		n.a.	Improving transportation	1998	-	211	Self financed
20	Beawar M	Purchase of equipment	Waste collection	1997	-	853	Self financed
		Purchase of vehicles	Improving transportation	1996	-	1,006	Self financed
21	Sriganganagar M	Purchase of vehicles	Improving transportation	1996	-	1,453	State govt.
	<b>Tamil Nadu</b>						
22	Rajapalayam M	Purchase of vehicles	Improving transportation	1995	1995	800	Self financed
23	Salem M.Corp.	Acquiring land	Waste disposal	1996	1997	15,709	State govt.
24	Tirunvannamalai M	Purchase of vehicles	Improving transportation	1997	-	1,382	Self financed
	<b>West Bengal</b>						
25	Santipur M	Purchase of vehicles	Improving transportation	n.a.	n.a.	235	n.a.
	<b>Small States</b>						
	<b>Tripura</b>						
26	Agartala MCI	Purchase of vehicles	Improving transportation	1997	-	9,700	Central govt.
		Compost plant	Treatment of waste	n.a.	n.a.	3,260	Central govt.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-12: Capital Works Undertaken between 1994 and 1999**

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding
				started	completed		
	1	2	3	4	5	6	7
<b>Class II</b>							
<b>Gujarat</b>							
1	Amreli M	Purchase of vehicles	Improving transportation	n.a.	n.a.	n.a.	Self financed
2	Dohad M	Purchase of vehicles	Improving transportation	1994	-	350	Self financed
		Purchase of vehicles	Improving transportation	1996	1996	400	Self financed
3	Gondal M	Purchase of vehicles	Improving transportation	1997	-	700	Self financed
		Purchase of vehicles	Improving transportation	1997	1997	210	Self financed
4	Jetpur M	Purchase of vehicles	Improving transportation	1994	-	500	Self financed
		Purchase of vehicles	Improving transportation	1997	1998	200	State govt.
<b>Haryana</b>							
5	Kaithal MCI	n.a.	Waste collection	1998	1998	100	Self financed
<b>Karnataka</b>							
6	Ramanagaram CMC	Purchase of vehicles	Improving transportation	1999	-	n.a.	Self financed
<b>Kerala</b>							
7	Changanessary MC	Compost plant	n.a.	n.a.	n.a.	n.a.	n.a.
8	Taliparamba M	Acquiring land	Waste disposal	1998	1998	1,200	People's plan campaign fund
		Purchase of vehicles	Improving transportation	1997	1997	680	Self financed
<b>Madhya Pradesh</b>							
9	Neemuch M	Purchase of vehicles	Improving transportation	1994	-	735	State govt.
10	Vidisha M	Purchase of equipment	Waste collection	1995	1996	n.a.	Central/ State govt.
		Trenching ground devt.	Waste treatment	1995	n.a.	n.a.	Central/ State govt.
<b>Tamil Nadu</b>							
11	Arakkonam M	Purchase of vehicles	Improving transportation	1996	-	800	Self financed
12	Sivakasi M	Purchase of vehicles					
13	Srivilliputtur M	Purchase of vehicles	Improving transportation	1998	-	495	Self financed
14	Tindivanam M	Purchase of vehicles	Improving transportation	1995	-	n.a.	n.a.
<b>West Bengal</b>							
15	Chakdaha M	Acquiring land	Develop land fill	1997	1998	780	10th Finance Commission Award

**Status of Municipal Solid Waste Management**  
**C-12: Capital Works Undertaken between 1994 and 1999**

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding
				started	completed		
	1	2	3	4	5	6	7
	<b>Small States</b>						
	<b>Himachal Pradesh</b>						
16	Shimla M.Corp.	Purchase of vehicles	Improving transportation	1999	-	6,082	NORAD
	<b>Nagaland</b>						
17	Kohima TC	Purchase of equipment	Waste disposal	1994	-	100	Self financed
	<b>Union Territories</b>						
18	Port Blair MCI						
	<b>Others(Smaller than Class II towns)</b>						
	<b>Small States</b>						
	<b>Goa</b>						
19	Panaji MCI	n.a.	n.a.	1994	n.a.	n.a.	HUDCO
	<b>Sikkim</b>						
20	Gangtok (Greater Gangtok) NTAC	Compost plant	Acquiring land	1997	1999	1,500	State govt.
		Compost plant	Treatment of waste	1999	1999	4,900	State govt.
	<b>Union Territories</b>						
21	Daman MCI	Purchase of vehicles	Improving transportation	1996	-	329	State govt.
22	Silvassa CT						
Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.							

## Status of Municipal Solid Waste Management

### C-13: Capital Works to be undertaken in Future

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding	Per capita cost (Rs.)
				started	completion			
	1	2	3	4	5	6	7	8
<b>Metropolitan Cities</b>								
1	Bangalore M.Corp.	Purchase of vehicles	Improving transportation	2000	2001	250000	HUDCO	n.a.
2	Delhi M.Corp.	Purchase of vehicles/ equipment	Improving collection	2000	2005	600000	State govt.	n.a.
		Land fill	Disposal/ treatment of waste	2000	2010	580000	State govt.	n.a.
3	Surat M.Corp.	Compost plant	Treatment of waste	2000	2002	118550	n.a.	47
4	Vadodara M.Corp.	Purchase of vehicles	Improving transportation	1999	2001	1500	Self financed	n.a.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-13: Capital Works to be undertaken in Future**

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding	Per capita cost (Rs.)
				started	completion			
<b>Class I</b>								
<b>Andhra Pradesh</b>								
1	Guntur MCI	Pelletisation plant	Treatment of waste	1999	1999	n.a.	HUDCO	n.a.
2	Rajahmundry M.Corp.	Bio fertilizer plant	Treatment of waste	1999	2000	400000	State govt.	105
3	Tirupati MCI	Compost plant	Treatment of waste	1999	n.a.	10000	Self financed	n.a.
<b>Gujarat</b>								
5	Anand M	Purchase of vehicles	Improving transportation	1998	1999	200	Self financed	n.a.
		Purchase of vehicles	Improving transportation	1998	1999	300	Self financed	n.a.
6	Bhuj M	Purchase of vehicles	Improving transportation	1998	1999	2000	GMFB	17
7	Jamnagar M.Corp.	Purchase of vehicles	Improving transportation	1999	1999	1463	Self financed	n.a.
		Purchase of vehicles	Waste collection	1999	1999	1220	Self financed	n.a.
8	Junagadh M	Purchase of vehicles	Improving transportation	1999	2000	800	District Development Board	n.a.
9	Porbandar M	Purchase of vehicles	Improving transportation	2000		1706	Self financed	
<b>Haryana</b>								
10	Karnal MCI	Purchase of vehicles	Improving transportation	2000	2000	n.a.	Self financed	n.a.
<b>Jammu &amp; Kashmir</b>								
11	Srinagar M.Corp.	Compost plant	Treatment of waste	in pipeline			not decided	n.a.
		Plastic Recycling Unit		in pipeline			n.a.	
<b>Kerala</b>								
12	Kollam MC	Compost plant	Treatment of waste	1999	2001	35000	Central/ State govt.	n.a.
13	Thalaserry M	Compost plant	Treatment of waste	2000	-	n.a.	HUDCO	n.a.
<b>Madhya Pradesh</b>								
14	Guna M	Compost plant	Treatment of waste	n.a.	n.a.	n.a.	n.a.	n.a.
15	Murwara-Katni M.Corp.	Compost plant	Treatment of waste	n.a.	n.a.	n.a.	n.a.	n.a.
16	Satna M.Corp.	Purchase of vehicles	Improving transportation	2000	n.a.	n.a.	State govt.	n.a.
<b>Maharashtra</b>								
17	Wardha M	Compost plant	Treatment of waste	n.a.	n.a.		HUDCO	n.a.

## Status of Municipal Solid Waste Management

### C-13: Capital Works to be undertaken in Future

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding	Per capita cost (Rs.)
				started	completion			
	<b>Punjab</b>							
18	Jalandhar M. Corp.	Compost plant	Treatment of waste	1999	2000	n.a.	n.a.	n.a.
19	Moga MCI	Acquiring land	Develop land fill	2000	2001	1600	Self financed	11
		Purchase of vehicles/ equipment	Improving collection	1999	2000	1000	Self financed	n.a.
	<b>Rajasthan</b>							
20	Ajmer MCI	n.a.	Improving transportation	1999	2000	379	n.a.	n.a.
		n.a.	Improving transportation	1999	2000	151	n.a.	n.a.
21	Bhilwara M	n.a.	Waste disposal	2000	2001	50000	State govt. / HUDCO	222
22	Bikaner M	Compost plant	Treatment of waste	2001	n.a.	12000	Central govt.	20
23	Sriganganagar M	Purchase of vehicles	Improving transportation	2001	n.a.	240	State govt.	n.a.
	<b>Tamil Nadu</b>							
24	Tirunelveli M.Corp.	Compost plant	Treatment of waste	n.a.	n.a.	n.a.	TNUDF	n.a.
		Purchase of vehicles/equipment	Improving collection	1999	n.a.	41400	TNUDF/ loan/self	n.a.
25	Tiruvannamalai M	Compost plant equipment	Treatment of waste	2000	2000	54	Self financed	n.a.
	<b>Uttar Pradesh</b>							
26	Hardwar MB	n.a.	Waste disposal	n.a.	n.a.	77700	State govt.	n.a.
	<b>Small States</b>							
	<b>Assam</b>							
27	Guwahati M.Corp.	Dumping ground devt.	Waste disposal	n.a.	n.a.	n.a.	n.a.	n.a.
	<b>Tripura</b>							
28	Agartala MCI	Compost plant	Treatment of waste	2000	2002	235	State govt.	117

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.

**Status of Municipal Solid Waste Management**  
**C-13: Capital Works to be undertaken in Future**

Sl. No.	City/Town	Component	Purpose	Year		Total Cost (Rs. in '000)	Source of funding	Per capita cost (Rs.)
				started	completion			
<b>Class II</b>								
<b>Gujarat</b>								
1	Gondal M	Purchase of vehicles	Improving transportation	1999	2000	500	Self financed	n.a.
2	Jetpur M	Purchase of vehicles	Improving transportation	1997	1999	400	State govt.	n.a.
3	Palanpur M	Purchase of vehicles	Improving transportation	1999	2000	300	State govt.	n.a.
<b>Karnataka</b>								
4	Gokak CMC	Compost yard	Treatment of waste	2000	2001	300	Self financed	n.a.
5	Rabkavi-Banhatti CMC	Purchase of vehicles	Improving transportation	n.a.	n.a.	n.a.	Central govt.	n.a.
6	Ramanagaram CMC	Treatment facility	Treatment of waste	1999		9980	International loan	n.a.
<b>Kerala</b>								
7	Changanessary MC	Compost plant	Treatment of waste	n.a.	n.a.	n.a.	State govt.	n.a.
8	Payyanur M	Acquiring land	Treatment of waste	2004	2005	16000	State govt.	n.a.
9	Taliparamba M	Compost plant	Treatment of waste	2000	2000	1000	People plan campaign fund	n.a.
<b>Madhya Pradesh</b>								
10	Shahdol M	Acquiring land	Treatment facility	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Tamil Nadu</b>								
11	Sivakasi M	Purchase of vehicles	Waste disposal	1999	2000	1200	Self financed	n.a.
12	Srivilliputtur M	Acquiring land	Treatment of waste	2000	2001	25	Self financed	n.a.
<b>West Bengal</b>								
13	Jalpaiguri M	Compost plant	Treatment of waste	2000	2000	1500	International assistance	15
<b>Small States</b>								
<b>Himachal Pradesh</b>								
14	Shimla M.Corp.	Waste recycling plant	Waste treatment	n.a.	n.a.	n.a.	n.a.	n.a.
<b>Nagaland</b>								
15	Kohima TC	Purchase of equipment	Waste disposal	2000	2001	20000	Central govt./ HUDCO	210
<b>Others(Smaller than Class II towns)</b>								
<b>Small States</b>								
<b>Sikkim</b>								
16	Gangtok (Greater Gangtok)	Compost plant	Waste treatment	2001	2005	25000000	n.a.	230
<b>Union Territories</b>								
17	Silvassa CT	Purchase of vehicles	Improving transportation	1998	1999	1000000	State govt.	n.a.

Source: Respective urban local governments/relevant agencies, NIUA Survey, 1999.