

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:	AURANGABAD	District:	AURANGABAD
Name of Municipal Body:	AURANGABAD Municipal Corporation Division	Division:	Aurangabad
Address:		State:	Maharashtra
Telephone:	333536 - 40	Fax:	331213
Email:		Website:	
• DEMOGRAPHY			
.1	Name of Officer In-Charge	Medical Officer of Health	
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km ²)	138.2 sq. km	
.3	No. of wards / zones	83 wards/ 8 zones	
.4	Total population (as per 1991 census)	5,91,000	
.5	Total population (as per 2001 census)	10,00,000 approx.	
.6	Population		
	• Urban	765,000	
	• Slums	225,000	
.1	Floating population	10,000	
.2	Total no. of household	1,36,000	

•	GENERATION OF MUNICIPAL SOLID WASTE	
.1	Total MSW generation (MT/day)	300 MT
.2	MSW generation (gms/capita/day)	300 gm
.3	Of the total MSW generated	
	• Quantity of domestic MSW (MT/day)	130
	• Quantity of commercial MSW (MT/day)	90
	• Quantity of industrial (non-toxic and non-hazardous) waste (MT/day)	20
	• Quantity of waste from markets (MT/day)	20
	• Quantity of waste from hotels and restaurants (MT/day)	30
.1	Composition of MSW (Attach separate sheet)	
	• Physical characteristics	
	o Biodegradable (%)	60%
	o Paper (%)	3%
	o Plastic (%)	2%
	o Glass (%)	2%
	o Metal (%)	15%
	o Inert, ash, debris (%)	
	o Building material (%)	10%
	• Chemical characteristics	
	o Moisture content (%)	25%
	o Organic (%)	35%
	o Other inert material (%)	40%
•	SWEEPING	
.1	Total length of roads (with or without footpath) (km)	58,15,117 sq. meters in length all types
.2	Total no. of sweepers employed	1704
	• Departmental	1512 from corporation
	• Contracted	192 from CIDCO (contractual)
.1	Working hours of sweepers	8 hrs (5:30 AM – 1:30 PM)
.2	Norms of sweeping (e.g. one sweeper per ... population, or one sweeper per ... sq. m. area,	One sweeper per 5000 sq. m area or 1 sweeper per 750 meter length

	or one sweeper per ... RMT road)	
.3	Sweeping carried out at a location by	<input type="radio"/> One sweeper <input type="radio"/> Two sweepers <input type="radio"/> Three or more sweepers
.4	Sweeping waste is put in a...	<input type="radio"/> Box type wheel barrow <input type="radio"/> Containerised handcart <input type="radio"/> Cane or bamboo basket <input type="radio"/> Roadside bin <input type="radio"/> Open dump <input type="radio"/> Directly in the vehicle
.5	Frequency of sweeping	<input type="radio"/> All seven days a week <input type="radio"/> Six days in a week <input type="radio"/> Alternate days <input type="radio"/> Any other frequency (Please mention)
.6	Total no. of wheel barrows provided	64 handcarts
.7	Total capacity of wheel barrow (kg)	250 kg Containerized
.8	Type of broom provided	<input type="radio"/> Long handle (No.:) <input type="radio"/> Short handle (No.:) <input type="radio"/> 3200 both types
<p>• COLLECTION, STORAGE AND TRANSPORTATION</p>		
.1	Area covered for collection of MSW	138.2 sq. kms
.2	No. of households covered	1,36,000
.3	No. of households covered under door-to-door collection (bell ringing)	1,36,000
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Municipality & Pvt. Agency in CIDCO
.5	Is the segregation is carried out at source?	Yes
.6	MSW collected in mixed form (MT/day)	Mixed Waste
.7	Frequency of waste collection	<input type="radio"/> Once in 24 hours <input type="radio"/> Twice in 24 hours <input type="radio"/> Thrice in 24 hours <input type="radio"/> Alternate days <input type="radio"/> Any other frequency (Please mention)

.8	Is waste collected every day <i>i.e.</i> 7 days a week and 365 days a year?		Yes		
.9	Total number, type, size, and capacity of storage bins / container / trailers provided		RCC bins 1635		
.10	Whether all bins are attended/ cleaned daily? <i>(i.e.</i> 7 days a week and 365 days a year)		Yes		
.11	Whether the lifting of waste from the bins is manual or mechanical?		Manual		
.12	Vehicle details				
Type	Total No.	Capacity (MT)	Daily required	At present available	Additional proposed
Compactor (mobile)		5 MT		1	
Open truck		3 to 4 MT		13	
Open truck with tipping		2 – 3 MT		18	
Tractor-trailer with tipping		2 MT		10 (CIDCO)	
Auto rickshaw with or without tipping		350 kg		6	50 autorick-shaws with bells for narrow by lanes of slums etc.

• **COLLECTION SYSTEM**

.1	Approximate MSW collected (MT)	300 MT
	o Household (urban)	130 MT
	o Slums	30
	o Street sweeping	20
	o Shops & commercial establishments	30
	o Markets	20
	o Hotels, restaurants, eating houses	30
	o Gardens, parks, fairs	10
	o Slaughter houses	10
	o Building sites (debris, earth, etc.)	20
.2	No. of premises / establishments	
	o Households	1,36,000
	o Shops, commercial establishments	8,375
	o Slums, households, population	110 slums, 2.35 lacs population
	o Vegetable and fruit markets	} 75 markets
	o Fish and meat markets	}
	o Hawkers	1386
.3	No. of hotels, restaurants, eating houses	}
	o Grade / class I	}
	o Grade / class II	} 1717
	o Grade / class III	}
	o No. of star hotels	3 Star – 2, 4 Star – 2
.4	Guesthouses	23
.5	Marriage halls	88
.6	Hostels	64
.7	Cinema halls	13
.8	Theatres	3
.9	Stables and no. of animals	276 (stables) / 5000 animals
.10	Hospitals/ clinics/ nursing homes	1325
	Total no. of beds	
.11	Parks, gardens, recreation places like lakes, amusement parks	85 Gardens (35 gardens from CIDCO area)

.12	Building sites (under construction)	251 building sites
.13	Slaughter houses	3

• **PROCESSING AND DISPOSAL OF MSW**

.1	Total quantity of MSW processed (MT/day)	300 MT/D
.2	Technology / technologies adopted	
o	Composting (MT/day)	120 – 150 MT/D
.3	Composting	
	Compost produced (MT/year)	
	Is it done mechanically?	Yes
	Is it the compost sold?	Yes
	If yes, the quantity sold (MT/year)	3.25 lacs in 2000 - 01
.4	Dumping grounds/landfill sites	150 MT
•	No. of dumping grounds/ landfill sites	8 Hectares, 20 Acres of land at Naregaon is used
•	Distance (in km) of dumping ground / landfill site from ...	10 km from bus stand
•	Has it been designed scientifically	Yes – Last 10 years

.1 Whether the following facilities are provided

•	Weighbridge	No
•	Fencing	Yes - partially
•	Approach roads/ internal roads	Yes/No
•	Lighting facility	Yes
•	Site office with monitoring equipment	Yes/No
•	Managerial staff and manpower	6 from AMC & 18 Pvt. Contractors
•	Covering material used daily as per Rules 2000	Yes
	Is it available in sufficient quantity?	Yes
•	Gas venting arrangement	Not available
•	Leachate collection system	Provision not made

• **INSTITUTIONAL ARRANGEMENTS**

.1	SWM services provided in the city/town by	Municipal Corporation
.2	Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	48
.3	Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	1645

.4	Organisational structure	Comm – DY Comm ---- Wards MOH-----Officers-----SI-----Jawans--- Labour
	• PRIVATISATION	
.1	Whether any of the following service is privatised?	
	• Sweeping	Yes
	• Door-to-door collection	Yes
	• Transportation	Yes
	• Processing of MSW	Yes/No
	• Sanitary landfilling	Yes/No
	If no, whether any future plans for privatisation	No
	• Details of NGO/ CBO/ Residential groups involved in any schemes/ projects initiated by municipal body in SWM/ clean city program	In CIDCO administered area, 16 wards sanitation is privatized to private agency by tender process. Rs. 64 lacs is spent on sanitation & insecticide spraying
	• COST IMPLICATIONS IN SWM	
.1	Expenditure (in Rupees/Year)	
	• Total cost of SWM services under various heads	No Information
	• Establishment including salaries, uniforms, etc	Rs. 5,09,30,000
	• Tools, equipment, and consumables including disinfectant	Rs. 22,04,900
	• Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, etc	Rs. 94,73,600
	• Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, etc	Rs. 50,000
	• Other miscellaneous expenses	Rs,5,00,000
.1	The above total cost in terms of following activities (Rupees/Year)	
	• Sweeping cost	} Rs. 5,26,83,900
	• Collection cost	}
	• Transportation cost	Rs. 94,73,600
	• Processing cost	-----
	• Disposal / sanitary landfill cost	-----
.1	Cost recovery	

•	Tipping fee or trade refuse charges (Rupees/Year)	-----
•	Revenue generation (by sale of compost, vermi-compost, energy/ gas, etc. (Rupees/Year)	Rs. 3,27,000
•	Annual expenditure for SWM services	Rs. 621.5 lacs
	Cost of SWM services in Rupees per capita per year	Rs. 62
	Cost of SWM services in Rupees per tonne of MSW	Rs. 345
•	OTHER FACILITIES	
.1	What facilities are provided for the following?	
•	Biomedical waste	BMW disposal project is in progress at Naregaon thru Pvt. Agency on BOLT basis
•	Encroachments on footpaths, in parks	Encroachments are removed as and when required
•	How many slums have been identified and whether there are provided with sanitation facilities?	106 slums identified
•	Is there any enforcement wing for taking renal actions?	No
•	SPECIAL/ UNIQUE SCHEMES OR INITIATIVES¹	
.1	Recycling schemes for plastic, PET bottles	No
.2	Encouraging community activity such as ALM ² formation	No
.3	Encouraging people's participation by building-wise or building complex-wise waste segregation and processing of organic waste by vermi-composting or composting	No
.4	Training needs for sanitary workers on health and safety issue	Yes
.5	Development of tools and implements	No
•	AWARENESS	
.1	Are you aware of the various notifications of the Ministry of Environment and Forests, Government of India	

¹ Details of schemes can be provided on a separate sheet

² Advance Locality Management

- Municipal Solid Waste (Management and Handling) Rules, 2000 Yes
- Recycled Plastics Manufacture and Usage Rules, 1999 No
- Biomedical Waste (Management and Handling) Rules, 1998 Yes

Place:

Date:

Signature of the Municipal Commissioner /
The Health Officer/ The Chief Engineer (SWM)

Stamp

Note: Please provide small note on the geographical and historical background of the city, tourist places, monuments, pilgrimage places, main industrial areas, industries, GNP, GDP, Airport, Airbase, main events and main people of national and international importance, *etc.*