PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:		Ahmedabad		District:	
Name	of Municipal Body:	Ahmedabad		Division:	
Addre	ess:			State:	Gujarat
Telep	hone:			Fax:	
Email	:			Website:	
•	DEMOGRAPHY				
.1	Name of Officer In-Charge		No In	formation	
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km²)		Ahmedabad Municipal Corporation		
.3	No. of wards / zones		43		
.4	Total population (as	per 1991 census)	28.54 lakhs		
			3.21 I	akhs (Municipa	l limit)
.5	Total population (as per 2001 census)		No Information		
.6	Total no. of household		5,52,164		
.7	Average maximum temperature (°C)		44°C		
.8	Average minimum temperature (°C)		5°C		
.9	Average yearly maxi	mum rainfall (mm)	750		

	GENERATION OF MUNICIPAL SOLID WASTE	
.1	Total MSW generation (MT/day)	No specific data is given. However waste papers (60 MT), plastic (20 MT), metal (20 MT), and debris (200 MT) is being generated in the city everyday.
		Also in the report, it is mentioned that for setting up a composting plant, AMC has agreed to give 500 MT waste to the company per day.
		Biomedical waste generated: 1.608 MT/day
.2	MSW generation (gms/capita/day)	No Information
.3	Of the total MSW generated	No Information
(dome	estic, commercial, industrial, from	
market	ts, hotels and restaurants) MT/day	
.4	Composition of MSW (Attach separate sheet)	Results are not available
Physic	al characteristics, Chemical	
charac	teristics	
•	SWEEPING	
.1	Total length of roads (with or without footpath) (km)	No Information
.2	Total no. of sweepers employed	No Information
.3	Working hours of sweepers	No Information
.4	Norms of sweeping (e.g. one sweeper per population, or one sweeper per sq. m. area, or one sweeper per RMT road)	No Information
.5	Sweeping carried out at a location by	o One sweepers
		o Two sweepers
		o Three or more sweepers
.6	Sweeping waste is put in a	Box type wheel barrow
		o Containerised handcart
		Cane or bamboo basket
		o Roadside bin
		o Open dump
		o Directly in the vehicle
.7	Frequency of sweeping	All seven days a week

Six days in a week				
.8 Total no. of wheel barrows provided .9 Total no. of containerised handcarts provided .10 Total capacity of wheel barrow (kg) .11 No. of containers and its capacity in kg .12 Type of broom provided .13 Any other equipment provided .2 Short handle (No.:) .3 Short handle (No.:) .4 Protective gear provided .6. (e.g. spade, shovel, tikow) .14 Protective gear provided .6. (e.g. leather hand gloves, gumboots, mask) .5 COLLECTION, STORAGE AND TRANSPORTATION .1 Area covered for collection of MSW .2 No. of households covered .3 No. of households covered .3 No. of households covered under door-to-door collection (pell ringing) .4 Is the collection carried out by municipal authority or private contractor or NGO? .5 Is the segregation is carried out at source? Approx. 60T waste papers, 20T plastic, 20 T metal being collected by the rag pickers from the community bins, open dumpsites, streets, etc. If no, what steps have been taken? .6 Total quantity collected (MT/day) .7 MSW collected in mixed form (MT/day) .8 MSW collected in mixed form (MT/day) .9 Whether littering is prohibited by the municipality? .10 Whether littering is prohibited by the municipality? .11 Frequency of waste collection .12 Frequency of waste collection .13 Any other in the capacity in kg .14 Lypin handle (No.:) .5 Any other in the community bins, open dumpsites, streets, etc. .5 Any other intering is prohibited by the municipality? .15 Any other intering is prohibited by the municipality? .16 Once in 24 hours .17 Twice in 24 hours .18 Alternate days			0	Six days in a week
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Thrice in 24 hoursAlternate days	.11	Frequency of waste collection	0	Once in 24 hours
o Alternate days			0	Twice in 24 hours
			0	Thrice in 24 hours
o Any other frequency (Please mention)			0	Alternate days
			0	Any other frequency (Please mention)

.12	Is waste collected every day i.e. 7 days a week and 365 days a year?	Yes/No
	If no, give details	
.13	Total number, type, size, and capacity of storage	143 containers of 10 Cub. Mt. capacity
	bins / container / trailers provided	11 containers of 7 Cub. Mt. capacity
		235 containers of 4.5 Cub. Mt. capacity
.14	Whether the bins are open or closed?	Closed
.15	Whether all bins are attended/cleaned daily? (i.e. 7 days a week and 365 days a year)	Yes/No
	If no, mention details	
.16	Whether the lifting of waste from the bins is manual or mechanical?	

.17 Vehicle de	tails				
Туре	Total No.	Capacity (MT)	Daily required	At present available	Additional proposed
Compactor (mobile)	2				
Tata 407	2				
Dumper placer (with 4.5 m ³ / 7 m ³ containers)	17				
Refuse Collection	18				
JCB	13				
Front end excavator	10				
Tipper trucks	93				
Trucks	93				
Roll-on-roll-off machine 10 m ³	16				
Roll-on-roll-off machine 7 m ³	5				
Wheel dozer	3				
Bull dozer	4				
Refuse collector	18				
Any other type (please mention)					

.18	Collection details							
Type vehic		No. of shifts	Capacity (MT)	No. of trips/ shift	Distance travelled / shift	Quantity of MSW carried / shift (MT)	Quantity of MSW carried out / day (MT)	No. of workers / vehicle
Compac (mobile)								
Dumper placer (2.5 m ³ containe	with							
Dumper placer (4.5 m ³ / m ³	with 7							
containe Open tr								
Open tr with tipp	uck							
Tractor- trailer w tipping								
Tractor- trailer without tipping								
Auto rickshav with/ without tipping	N							
Tricycle with/with tipping								
Any oth type	er							
Total								
.19	If the vehicles are they covered with				No			
•	COLLECTION SY	STEM						

o Household (urban) o Stums o Street sweeping o Shops & commercial establishments o Markets o Hotels, restaurants, eating houses o Gardens, parks, fairs o Slaughter houses o Building sites (debris, earth, etc.) 2 No. of premises / establishments o Households o Shops, commercial establishments o Slums, households, population o Vegetable and fruit markets o Fish and meat markets o Fish and meat markets o Hawkers 3 No. of hotels, restaurants, eating houses o Grade / class II o Grade / class II o Grade / class III o No. of star hotels 4 Guesthouses 5 Marriage halls 6 Hostels 7 Cinema halls 8 Theatres 9 Stables and no. of animals 10 Hospitals/ clinics/ nursing homes Total no. of beds 11 Parks, gardens, recreation places like lakes, amusement parks	.1	Approximate MSW collected (MT)		
o Street sweeping o Shops & commercial establishments o Markets o Hotels, restaurants, eating houses o Gardens, parks, fairs o Staughter houses o Building sites (debris, earth, etc.) 2 No. of premises / establishments o Households o Shops, commercial establishments o Stums, households, population o Vegetable and fruit markets o Fish and meat markets o Fish and meat markets o Hawkers 3 No. of hotels, restaurants, eating houses o Grade / class I o Grade / class II o Grade / class II o Torade / class II o Starbouses 5 Marriage halls 6 Hostels 7 Cinema halls 8 Theatres 9 Stables and no. of animals 10 Hospitals/ clinics/ nursing homes Total no. of beds 11 Parks, gardens, recreation places like lakes,		o Household (urban)		
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.8 Theatres .9 Stables and no. of animals .10 Hospitals/ clinics/ nursing homes Total no. of beds .11 Parks, gardens, recreation places like lakes,	.6	Hostels		
.9 Stables and no. of animals .10 Hospitals/ clinics/ nursing homes Total no. of beds .11 Parks, gardens, recreation places like lakes,	.7	Cinema halls		
.10 Hospitals/ clinics/ nursing homes Total no. of beds .11 Parks, gardens, recreation places like lakes,	.8	Theatres		
Total no. of beds .11 Parks, gardens, recreation places like lakes,	.9	Stables and no. of animals		
	.10			
1	.11			
.12 Building sites (under construction)	.12	Building sites (under construction)		
.13 Slaughter houses	.13	Slaughter houses		

•		PROCESSING AND DISPOSAL OF MSW	
.1		Total quantity of MSW processed (MT/day)	
.2		Technology / technologies adopted	
	0	Composting (MT/day)	A pilot plant for 50-60 MT of MSW is run successfully. It is proposed to have a bio-fertiliser plant with 500 MT waste processing capacity.
	0	Vermiculture (MT/day)	
	0	Pelletisation (MT/day)	
	0	Waste to energy (MT/day)	
.3		Composting	
		Compost produced (MT/year)	
		Is it done mechanically?	Yes/No
		Is it the compost sold?	Yes/No
		If yes, the quantity sold (MT/year)	
	•	Total revenue generated (Rupees/year)	
.1		Vermi-composting	
		Vermi-compost produced (MT/day)	
		Is the vermi-compost sold?	Yes/No
		If yes, the quantity sold (MT/year)	
	•	Total revenue generated (Rupees/year)	
.1		Pelletisation	
		Pellets produced (MT/day)	
		Are the pellets sold?	Yes/No
		If yes, the quantity sold (MT/year)	
	•	Total revenue generated (Rupees/year)	
.1		Waste to energy	
	•	Energy produced (MW/MT/day)	
		Incineration	
		Pyrolysis	
		Bio-methanation	
		Any other (Please mention)	
	•	Revenue generated (Rupees/year)	
.1		Dumping grounds/landfill sites	

•	MSW disposed off by open dumping (MT/day) [mixed/inert]	
•	MSW disposed off by controlled dumping (MT/day) [mixed/inert]	
•	MSW disposed off by sanitary landfill (MT/day) [mixed/inert]	
•	No. of dumping grounds/ landfill sites	
	Whether municipality legally owns them?	
•	Area of each dumping ground/ landfill site	
•	Whether the area will be sufficient for next 25 years	Yes/No
•	If no, then what steps have been taken to acquire land?	
•	Distance (in km) of dumping ground / landfill site from	
	o Habitation	
	o Drinking water source	
	o Religious or monument places	
•	Distance from airport or airbase	
•	Has it been designed scientifically	Yes/No
•	Has the existing dumping ground been upgraded as required by MSW Rules, 2000	Yes/No
	If no, what steps have been taken (provide details)	
	Whether the following facilities are provided	
•	Weighbridge	Yes/No
•	Fencing	Yes/No
•	Approach roads/ internal roads	Yes/No
•	Lighting facility	Yes/No
•	Site office with monitoring equipment	Yes/No
•	Managerial staff and manpower	Yes/No
•	Covering material used daily as per Rules 2000	Yes/No
	Is it available in sufficient quantity?	Yes/No

•	Gas venting arrangement	Yes/No
•	Leachate collection system	Yes/No
•	INSTITUTIONAL ARRANGEMENTS	
.1	SWM services provided in the city/town by	Municipality/ Private contractor/ NGO
.2	Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Supervisors, etc.)	
.3	Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	
.4	Organisational structure	(Furnish separate sheet)
•	PRIVATISATION	
.1	Whether any of the following service is privatised?	
•	Sweeping	Yes/No
•	Door-to-door collection	Yes/No
•	Community collection	Yes/No
•	Transportation	Yes/No
•	Processing of MSW	Yes/No
•	Sanitary landfilling	Yes/No
	If yes, provide details	
	If no, whether any future plans for privatisation	
•	Details of NGO/ CBO/ Residential groups involved in any schemes/ projects initiated by municipal body in SWM/ clean city program	
•	COST IMPLICATIONS IN SWM	
.1	Expenditure (in Rupees/Year)	Rs. 29.84 Crores for 1996-97
		Provision of Rs. 38.78 Crores towards revenue & capital expenditure for 1997-98

- Total cost of SWM services under various heads
- Establishment including salaries, uniforms, etc
- Tools, equipment, and consumables including disinfectant
- Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, etc
- Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, etc
- Other miscellaneous expenses
- .1 The above total cost in terms of following activities (Rupees/Year)
 - Sweeping cost
 - Collection cost
 - Transportation cost
 - 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)
 - Annual expenditure for SWM services

Cost of SWM services in Rupees per capita per year

Cost of SWM services in Rupees per tonne of MSW

OTHER FACILITIES

.1 What facilities are provided for the following?

- Biomedical waste Diary related activities
- Slaughter house and unauthorised
- slaughtering
- Construction, demolition, debris and silt
- Encroachments on footpaths, in parks
- How many slums have been identified and whether there are provided with sanitation facilities?
- Yes/No Is there any enforcement wing for taking renal actions?

Recovery of administrative charges

Fines under Municipal/Police Act

Recourse to Municipal Act bye-laws

Yes/No Whether any cases are registered and settled during last three years?

No. of cases registered during last three years

No. of cases settled during last three years

Total recovery during last three years

SPECIAL/ UNIQUE SCHEMES OR INITIATIVES1

Recycling schemes for plastic, PET bottles Yes/No .1

.2 Encouraging community activity such as ALM2 Yes/No formation

.3 Encouraging people's participation by building-Yes/No wise or building complex-wise waste segregation and processing of organic waste by vermi-composting or composting

Training needs for sanitary workers on health Yes/No .4 and safety issue

.5 Development of tools and implements Yes/No

.6 Please provide list of potential NGO for implementing any of the initiatives (any association registered with municipal body/ unregistered local area management)

¹ Details of schemes can be provided on a separate sheet

2 Advance Locality Management

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- Are you aware of the various notifications of the Ministry of Environment and Forests, Government of India
 - Municipal Solid Waste (Management and Handling) Rules, 2000
 - Recycled Plastics Manufacture and Usage Rules, 1999
 - Biomedical Waste (Management and Handling)
 Rules, 1998
 - Coastal Regulatory Zones Rules, 1991 (amended up to 2002)

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*.