63952*1PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town: Yavatmal				District:	Yavatmal
Name o	of Municipal Body:	Yavatmal Municipal Council		Division	Amravati
Address:				State:	Maharastra
Telepho	one:	244037/244566		Fax:	246232
Email:				Website:	
•	DEMOGRAPHY				
.1	Name of Officer In-C	harge	Off.St	updt	
.2 Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km²)					
.3	No. of wards / zones		13 No)	
.4	Total population (as	per 1991 census)	1,08,563		
.5	Total population (as	per 2001 census)	1,20,763		
.6	Population				
•	Urban				
•	Slums & Urban poor		39,70	0	
.1	Floating population		50,000		
.2	Total no. of househo	ld	23,80	0	
.3	Average maximum te	emperature (°C)	-		
.4	Average minimum te	mperature (°C)	-		
.5	Average yearly maximum rainfall (mm)				
.6	Average maximum humidity				
.7	Average minimum humidity				
.8	Average depth of water table				
.9	Altitude (i.e. mean se	ea level)	-		

•	GEI	NERATION OF MUNICIPAL SOLID WASTE	
.1	Tota	al MSW generation (MT/day)	24
.2	MS\	N generation (gms/capita/day) per person	200
.3	Of tl	ne total MSW generated	
•	Qua	untity of domestic MSW (MT/day)	12
•	Qua	antity of commercial MSW (MT/day)	5
•		antity of industrial (non-toxic and non- ardous) waste (MT/day)	0
•	Qua	antity of waste from markets (MT/day)	0
•		antity of waste from hotels and restaurants (/day)	2
.1	Con	nposition of MSW (Attach separate sheet)	5
•	Phy	sical characteristics	
	0	Biodegradable (%)	
	0	Paper (%)	.80
	0	Plastic (%)	3.00
	0	Glass (%)	.20
	0	Metal (%)	.50
	0	Inert, ash, debris (%)	-
	0	Rags (%)	1.00
	0	Stone (%)	-
	0	Rubber / Tyre (%)	.20
	0	Coconut shell (%)	
	0	Dust (%)	45.07
•	Che	mical characteristics	Not Available
	0	Carbon (%)	-
	0	Nitrogen (%)	-
	0	Phosphorous as P ₂ O ₅ (%)	-
	0	Potassium as K ₂ O (%)	-
	0	C/N ratio	-
	0	Calorific value (kCal/kg)	-
	0	Density of MSW (kg/m ³)	-
	0	Moisture content (%)	

•	SWEEPING	
.1	Total length of roads (with or without footpath) (km)	133.5
•	Total length of cement-concrete roads (km)	9.45
•	Total length of asphalted roads (km)	80.65
•	Total length of Kutchha roads (km)	43.4
.1	Total no. of sweepers employed	201
•	Departmental	-
•	Contracted	-
.1	Working hours of sweepers	-
.2	Norms of sweeping (e.g. one sweeper per population, or one sweeper per sq. m. area, or one sweeper per RMT road)	One sweeper per 700 population
.3	Sweeping carried out at a location by	In a road side bin or open dump
.4	Sweeping waste is put in a	-
.5	Frequency of sweeping	-
.6	Total no. of wheel barrows provided	40 with a capacity of 20 Kgs
.7	Total no. of containerised handcarts provided	-
.8	Total capacity of wheel barrow (kg)	-
.9	No. of containers and its capacity in kg	-
.10	Type of broom provided	200 short handle per year
.11	Any other equipment provided (e.g. spade, shovel, tikow)	-
.12	Protective gear provided (e.g. leather hand gloves, gumboots, mask)	-
•	COLLECTION, STORAGE AND TRANSPORTAT	ION
.1	Area covered for collection of MSW	9
.2	No. of households covered	21,000
.3	No. of households covered under door-to-door collection (bell ringing)	-
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Both departmentally and by private agency
.5	Is the segregation is carried out at source?	-
	If no, what steps have been taken?	-
.6	Total quantity collected (MT/day)	24

.7	MSW collected in mixed form (MT/day)	-
.8	MSW collected in segregated form (MT/day)	-
.9	Whether littering is prohibited by the municipality?	-
.10	Whether litterbins are provided?	-
.11	Frequency of waste collection	-
.12	Is waste collected every day i.e. 7 days a week and 365 days a year?	-
	If no, give details	-
.13	Total number, type, size, and capacity of storage bins / container / trailers provided	-
.14	Whether the bins are open or closed?	-
.15	Whether all bins are attended/cleaned daily? (i.e. 7 days a week and 365 days a year)	-
	If no, mention details	-
.16	Whether the lifting of waste from the bins is manual or mechanical?	Manual

.17 Vehicle de	etails		
Dumper placer (with 4.5 m³ / 8 m³ containers)			
Open truck			
Open truck with tipping			
Tractor-trailer without tipping			
Auto rickshaw with or without tipping			
Tricycle with or without tipping			
Any other type (please mention)			

Type of	No. of	No. of	Capacity	No. of	Distance	Quantity	Quantity	No. of
vehicle	vehicles used	shifts	(MT)	trips/ shift	travelled / shift	of MSW carried / shift (MT)	of MSW carried out / day (MT)	workers / vehicle
Compactor (mobile)	· -	-	-	-	-	-	-	-
Dumper placer (with 2.5 m ³ containers)		-	-	-	-	-	-	-
Dumper placer (with 4.5 m ³ / 7 r containers)	n ³	-	-	-	-	-	-	-
Open truck	2	-	3	2	5	6	-	-
Open truck								
Tractor- trailer with tipping	4	-	2	3	5	8	-	-
Tractor- trailer withoutipping	- out	-	-	-	-	-	-	-
Auto rickshaw with/ withoutipping	- ut	-	-	-	-	-	-	-
Tricycle with/withou tipping	- t	-	-	-	-	-	-	-
Any other type	-	-	-	-	-	-	-	-
Total								
	the vehicles are overed with temporary	-	-	hey Yes/ľ	No			
• C	OLLECTION SY	STEM						
.1 A	pproximate MSW	collected (N	ИT)					
	Household (u	ırhan)		7				

	0	Slums	7
	0	Street sweeping	3
	0	Shops & commercial establishments	3
	0	Markets	2
	0	Hotels, restaurants, eating houses Gardens, parks, fairs	1
	0	Slaughter houses	.20
	0	Building sites (debris, earth, etc.)	.90
.2	No.	of premises / establishments	
	0	Households	-
	0	Shops, commercial establishments	-
	0	Slums, households, population	-
	0	Vegetable and fruit markets	-
	0	Fish and meat markets	-
	0	Hawkers	-
.3	No.	of hotels, restaurants, eating houses	-
	0	Grade / class I	-
	0	Grade / class II	-
	0	Grade / class III	-
	0	No. of star hotels	-
.4	Gue	esthouses	-
.5	Mar	riage halls	-
.6	Hos	stels	-
.7	Cine	ema halls	-
.8	The	atres	-
.9	Stal	bles and no. of animals	-
.10		spitals/ clinics/ nursing homes al no. of beds	-
.11		ks, gardens, recreation places like lakes, usement parks	-
.12	Buil	ding sites (under construction)	-
.13	Sla	ughter houses	-
<u> </u>			

		DDOCESSING AND DISDOCAL OF MSW	
•		PROCESSING AND DISPOSAL OF MSW	
1.		Total quantity of MSW processed (MT/day)	-
.2		Technology / technologies adopted	-
	0	Composting (MT/day)	-
	0	Vermiculture (MT/day)	-
	0	Pelletisation (MT/day)	-
	0	Waste to energy (MT/day)	-
.3		Composting	-
		Compost produced (MT/year)	-
		Is it done mechanically?	-
		Is it the compost sold?	-
		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?	-
		If yes, the quantity sold (MT/year)	-
	•	Total revenue generated (Rupees/year)	-
.1		Pelletisation	-
		Pellets produced (MT/day)	-
		Are the pellets sold?	-
		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	-
	•	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	-
	•	Has the existing dumping ground been upgraded as required by MSW Rules, 2000	-
		If no, what steps have been taken (provide details)	-
.1		Whether the following facilities are provided	-
	•	Weighbridge	-
	•	Fencing	-
	•	Approach roads/ internal roads	-
	•	Lighting facility	-
	•	Site office with monitoring equipment	-
	•	Managerial staff and manpower	-
	•	Covering material used daily as per Rules 2000	-
		Is it available in sufficient quantity?	-

•	Gas venting arrangement	-
•	Leachate collection system	-
•	INSTITUTIONAL ARRANGEMENTS	
.1	SWM services provided in the city/town by	-
.2	Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	SI- 3, clerk- 4
.3	Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	Jamadar –3 P-20 SW – 201
.4	Organisational structure	-
•	PRIVATISATION	
.1	Whether any of the following service is privatised?	
•	Sweeping	NO
•	Door-to-door collection	Partly
•	Community collection	No
•	Transportation	No
•	Processing of MAW	No
•	Sanitary landfilling	-
	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)	

•	Total cost of SWM services under various heads	
•	Establishment including salaries, uniforms, etc	-
•	Tools, equipment, and consumables including disinfectant	1,05,20,648
•	Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, <i>etc</i>	2,00,000
•	Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, <i>etc</i>	8,48,000
•	Other miscellaneous expenses	-
.1	The above total cost in terms of following activities (Rupees/Year)	
•	Sweeping cost	62,25,000
•	Collection cost	4,50,000
•	Transportation cost	6,50,000
•	Processing cost	-
•	Disposal / sanitary landfill cost	-
.1	Cost recovery	-
•	Tipping fee or trade refuse charges (Rupees/Year)	Nil
•	Revenue generation (by sale of compost, vermi-compost, energy/ gas, etc. (Rupees/Year)	Nil
•	Annual expenditure for SWM services	1,60,00,000
	Cost of SWM services in Rupees per capita per year	132
	Cost of SWM services in Rupees per tonne of MSW	67,000
•	OTHER FACILITIES	
.1	What facilities are provided for the following?	-

•	Biomedical waste (Medical Waste)	There is one hospital under the council and 42 private hospitals and 164 clinics. At present the method adopted for disposal is that of deep burial. The council has proposed a common incineration facility
•	Diary related activities	NIL
•	Slaughter house and unauthorised slaughtering	-All sanitary facility
•	Construction, demolition, debris and silt	By issuing notice
•	Encroachments on footpaths, in parks	-
•	How many slums have been identified and whether there are provided with sanitation facilities?	-
•	Is there any enforcement wing for taking renal actions?	-
	Recovery of administrative charges	-
	Fines under Municipal/Police Act	-
	Recourse to Municipal Act bye-laws	-
•	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 INITIATIVES	,1
.1	Recycling schemes for plastic, PET bottles	-
.2	Encouraging community activity such as ALM ² formation	-
.3	Encouraging people's participation by building- wise or building complex-wise waste segregation and processing of organic waste by vermi-composting or composting	-
.4	Training needs for sanitary workers on health and safety issue	-
.5	Development of tools and implements	-
.6	Please provide list of potential NGO for implementing any of the initiatives (any	-

¹ Details of schemes can be provided on a separate sheet

² Advance Locality Management

association registered with municipal body/ unregistered local area management)

• AWARENESS

- .1 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: Mumbai

Date: 20 - 1- 2005

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.*