PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town: Parbhani District: Parbhani Name of Municipal Body: PARBHANI Municipal Council Division: Aurangabad Address: State: Maharashtra 21193 Telephone: 23809 Fax: Email: Website: **DEMOGRAPHY** .1 Name of Officer In-Charge Sanitary Inspector .2 Area of Municipal Corporation /Council 58 (Please provide map showing legal limits of municipal body) (km²) .3 19 wards / 4 zones No. of wards / zones .4 Total population (as per 1991 census) 1,90,255 .5 Total population (as per 2001 census) 2,59,170 .6 Population Urban Slums & urban poor 77,831 .1 Floating population 5000 daily on festival can go up to 85,000 .2 Total no. of household 36,342 .3 Average maximum temperature (°C) .4 Average minimum temperature (°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 sea level)

•	GEI	NERATION OF MUNICIPAL SOLID WASTE	
.1	Tota	al MSW generation (MT/day)	54
.2	MS	N generation (gms/capita/day) per person	210
.3	Of t	he total MSW generated	
•	Qua	antity of domestic MSW (MT/day)	36
•	Qua	antity of commercial MSW (MT/day)	8
•		antity of industrial (non-toxic and non- ardous) waste (MT/day)	0
•	Qua	antity of waste from markets (MT/day)	9
•		antity of waste from hotels and restaurants (/day)	1
.1	Con	nposition of MSW (Attach separate sheet)	
•	Phy	sical characteristics	Analysis has not been carried out
	0	Biodegradable (%)	-
	0	Paper (%)	-
	0	Plastic (%)	-
	0	Glass (%)	-
	0	Metal (%)	-
	0	Inert, ash, debris (%)	-
	0	Rags (%)	-
	0	Stone (%)	-
	0	Rubber / Tyre (%)	-
	0	Coconut shell (%)	-
•	Che	emical characteristics	Analysis has not been carried out
	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)	475.93
•	Total length of cement-concrete roads (km)	88.17
•	Total length of asphalted roads (km)	183.67
•	Total length of Kutchha roads (km)	204.09
.1	Total no. of sweepers employed	-
•	Departmental	1315
•	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 5000 sq.m area
.3	Sweeping carried out at a location by	-
.4	Sweeping waste is put in a	Sweeping waste collected in handcart and dumped in roadside dustbins.
.5	Frequency of sweeping	Every day
.6	Total no. of wheel barrows provided	40 wheel barrow of 25 kg capacity
.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 hand broom per month
.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	75% of the city
.2	No. of households covered	26,805
.3	No. of households covered under door-to-door collection (bell ringing)	2 sq. km
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Departmentally
.5	Is the segregation is carried out at source?	-
	If no, what steps have been taken?	-
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.6	Total quantity collected (MT/day)	50
.7	MSW collected in mixed form (MT/day)	-
.8	MSW collected in segregated form (MT/day)	No
.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?	Yes
	If no, give details	
.13	Total number, type, size, and capacity of storage bins / container / trailers provided	613 – cap 500 kg
.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 m containers)		-	-	-	-	-	-	-
Open truck	-	-	-	-	-	-	-	-
Open truck with tipping	2	-	1.5	3	40	9	-	-
Tractor- trailer with tipping	7	-	2	3	40	42	-	-
Tractor- trailer withor tipping	- ut	-	-	-	-	-	-	-
Auto rickshaw with/ withou tipping	- t	-	-	-	-	-	-	-
Tricycle with/without tipping	-	-	-	-	-	-	-	-
Any other type								
Total								
	he vehicles are overed with temporary			hey Yes/N	No			
• CC	DLLECTION SY	STEM						
.1 Ap	proximate MSW	collected (N	ИT)	54				
0	Household (ι	urban)		28				

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	0	Slums	8
	0	Street sweeping	1
	0	Shops & commercial establishments	6
	0	Markets	8
	0	Hotels, restaurants, eating housesGardens, parks, fairs	1
	0	Slaughter houses	_
	0	Building sites (debris, earth, etc.)	2
.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	tels	-
.7	Cine	ema halls	-
.8	Theatres		-
.9	Stat	oles and no. of animals	-
.10	Hospitals/ clinics/ nursing homes Total no. of beds		-
.11	Parks, gardens, recreation places like lakes, amusement parks		-
.12	Buil	ding sites (under construction)	-
.13	Slau	ughter houses	-
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•		PROCESSING AND DISPOSAL OF MSW	
.1		Total quantity of MSW processed (MT/day)	-
.2		Technology / technologies adopted	-
	0	Composting (MT/day)	Nil
	0	Vermiculture (MT/day)	29
	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?	Yes
		If yes, the quantity sold (MT/year)	Just started
	•	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?	<u>-</u>

•	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 Supervisors, etc.)	
.3	Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	-
.4	Organisational structure	-
•	PRIVATISATION	
.1	Whether any of the following service is privatised?	
•	Sweeping	No
•	Door-to-door collection	No
•	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	1,45,41,000
•	Tools, equipment, and consumables including disinfectant	2,00,000
•	Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, <i>etc</i>	6,49,500
•	Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, etc	5,30,000
•	Other miscellaneous expenses	-
.1	The above total cost in terms of following activities (Rupees/Year)	
•	Sweeping cost	17,76,000
•	Collection cost	1
•	Transportation cost	79,76,000
•	Processing cost	41,79,000 (one time expenditure) 18,00,000
•	Disposal / sanitary landfill cost	19,89,000
.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	Under consideration
•	Diary related activities	-
•	Slaughter house and unauthorised slaughtering	No
•	Construction, demolition, debris and silt	Land filled
•	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 association registered with municipal body/ unregistered local area management)	-

¹ Details of schemes can be provided on a separate sheet

2 Advance Locality Management

• AWARENESS

- 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.