

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:	BARSI	District:	SOLAPUR
Name of Municipal Body:	BARSI Municipal Council	Division:	Pune
Address:	Barsi 413 411	State:	Maharashtra
Telephone:	22397, 22205	Fax:	
Email:		Website:	
<ul style="list-style-type: none"> • DEMOGRAPHY 			
.1	Name of Officer In-Charge	Satish Kulkarni, Chief Officer	
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km ²)	35 sq. kms	
.3	No. of wards / zones	12 Wards (electoral), 3 Zones Adm.	
.4	Total population (as per 1991 census)	87,143	
.5	Total population (as per 2001 census)	1,04,786	
.6	Population		
	<ul style="list-style-type: none"> • Urban 	76,751	
	<ul style="list-style-type: none"> • Slums 	28,035	
.1	Floating population	8,000 – Approximately	
.2	Total no. of household	18,139 As per Tax Revision 2001	
<ul style="list-style-type: none"> • GENERATION OF MUNICIPAL SOLID WASTE 			
.1	Total MSW generation (MT/day)	30 MT	
.2	MSW generation (gms/capita/day)	300 gm	
.3	Of the total MSW generated		
	<ul style="list-style-type: none"> • Quantity of domestic MSW (MT/day) 	16	
	<ul style="list-style-type: none"> • Quantity of commercial MSW (MT/day) 	8	
	<ul style="list-style-type: none"> • Quantity of industrial (non-toxic and non-hazardous) waste (MT/day) 	1	
	<ul style="list-style-type: none"> • Quantity of waste from markets (MT/day) 	3	
	<ul style="list-style-type: none"> • Quantity of waste from hotels and restaurants (MT/day) 	2	
.1	Composition of MSW (Attach separate sheet)		
	<ul style="list-style-type: none"> • Physical characteristics 		
	<ul style="list-style-type: none"> <input type="checkbox"/> Biodegradable (%) 	93	
	<ul style="list-style-type: none"> <input type="checkbox"/> Paper (%) 	3	

	<input type="checkbox"/> Plastic (%)	1
	<input type="checkbox"/> Glass (%)	1
	<input type="checkbox"/> Metal (%)	1
	<input type="checkbox"/> Inert, ash, debris (%)	No Information
•	SWEEPING	
.1	Total length of roads (with or without footpath) (km)	No Information
	• Total length of cement-concrete roads (km)	1.3801 sq. km
	• Total length of asphalted roads (km)	48.8395 sq. kms
	• Total length of Kutchha roads (km)	9.0207 sq. kms
.1	Total no. of sweepers employed	
	• Departmental	52
	• Contracted	22
.1	Working hours of sweepers	7 hours
.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	<input type="checkbox"/> One sweeper <input type="checkbox"/> Two sweepers <input type="checkbox"/> Three or more sweepers
.4	Sweeping waste is put in a...	<input type="checkbox"/> Box type wheel barrow <input type="checkbox"/> Containerised handcart - Hand cart <input type="checkbox"/> Cane or bamboo basket <input type="checkbox"/> Roadside bin <input type="checkbox"/> Open dump <input type="checkbox"/> Directly in the vehicle
.5	Total no. of wheel barrows provided	90
.6	Total no. of containerised handcarts provided	0.144 Sq. m
.7	No. of containers and its capacity in kg	No
.8	Type of broom provided	<input type="checkbox"/> Long handle (No.:) <input type="checkbox"/> Short handle (No.: 2 / Month)
•	COLLECTION, STORAGE AND TRANSPORTATION	
.1	Area covered for collection of MSW	21 sq. km (Approx.)

.2	No. of households covered	13,780 (Approx.)						
.3	No. of households covered under door-to-door collection (bell ringing)	21 sq. km						
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Municipality & Private Agency						
.5	Is the segregation is carried out at source?	No						
.6	MSW collected in mixed form (MT/day)	Mixed						
.7	Whether all bins are attended/cleaned daily? (i.e. 7 days a week and 365 days a year)	No						
	If no, mention details							
.8	Whether the lifting of waste from the bins is manual or mechanical?	Manual						
.9	Vehicle details							
	Type	Total No.	Capacity (MT)	Daily required	At present available	Additional proposed		
	Open truck with tipping		6 cu.m		3	6		
	Tricycle with or without tipping					10		
.10	Collection details							
	Type of vehicle	No. of vehicles used	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
	Open truck with tipping	1	6 cu.m	3	15 Km/trip	2.1 MT		
	• COLLECTION SYSTEM							
.1	Approximate MSW collected (MT)	30 MT						
	<input type="checkbox"/> Household (urban)	8 MT						
	<input type="checkbox"/> Slums	3 MT						
	<input type="checkbox"/> Street sweeping	2 MT						
	<input type="checkbox"/> Shops & commercial establishments	3 MT						
	<input type="checkbox"/> Markets	1 MT						
	<input type="checkbox"/> Hotels, restaurants, eating houses	1 MT						
	<input type="checkbox"/> Gardens, parks, fairs	0.3						
	<input type="checkbox"/> Slaughter houses	0.5						

	<input type="checkbox"/> Building sites (debris, earth, etc.)	1
.2	No. of premises / establishments	
	<input type="checkbox"/> Households	18,139
	<input type="checkbox"/> Shops, commercial establishments	5,503 as per registration Shop Act 2002
	<input type="checkbox"/> Slums, households, population	32 Slums; House 3569; Population 28035
	<input type="checkbox"/> Vegetable and fruit markets	2
	<input type="checkbox"/> Fish and meat markets	3
	<input type="checkbox"/> Hawkers	832
.3	No. of hotels, restaurants, eating houses	388
.4	Guesthouses	1
.5	Marriage halls	9
.6	Hostels	7
.7	Cinema halls	4
.8	Stables and no. of animals	53 stables; 3260 Animals
.9	Hospitals/ clinics/ nursing homes	23 Hospital; 7 Nursing Homes; 92 clinics, 785 Beds
	Total no. of beds	
.10	Parks, gardens, recreation places like lakes, amusement parks	6 Gardens
.11	Building sites (under construction)	167 Approx.
.12	Slaughter houses	2
	• PROCESSING AND DISPOSAL OF MSW	
.1	Total quantity of MSW processed (MT/day)	No Information
.2	Technology / technologies adopted	
	<input type="checkbox"/> Composting (MT/day)	20 MT (Approx.)
	<input type="checkbox"/> Vermiculture (MT/day)	----
	<input type="checkbox"/> Pelletisation (MT/day)	----
	<input type="checkbox"/> Waste to energy (MT/day)	----
.3	Composting	
	Compost produced (MT/year)	No Information
	Is it done mechanically?	No
	Is it the compost sold?	Yes
	If yes, the quantity sold (MT/year)	Rs. 2,18,709 (2002-02 Budget)
.4	Dumping grounds/landfill sites	Not applicable
	• INSTITUTIONAL ARRANGEMENTS	

.1	SWM services provided in the city/town by	Barsi Municipal Council
.2	Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	5
.3	Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	93
	• PRIVATISATION	
.1	Whether any of the following service is privatised?	
	• Sweeping	Yes
	• Door-to-door collection	Yes
	• Transportation	Yes
	• Processing of MSW	No
	If yes, provide details	No
	If no, whether any future plans for privatisation	Yes, extension of privatisation
	• 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. 60,25,800
	• Tools, equipment, and consumables including disinfectant	Rs. 7,50,000
	• Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, etc	Rs. 2,77,300
	• Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, etc	Rs. 10,00,000
	• Other miscellaneous expenses	Rs. 2,60,000
.1	The above total cost in terms of following activities (Rupees/Year)	

•	Sweeping cost	Rs. 31,80,000
•	Collection cost	}
•	Transportation cost	} Rs. 24,52,000
•	Processing cost	Rs. 4,00,000
•	Disposal / sanitary landfill cost	Rs. 22,81,000
.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	Rs. 83,13,000
	Cost of SWM services in Rupees per capita per year	Rs. 79.33
	Cost of SWM services in Rupees per tonne of MSW	Rs. 924
•	OTHER FACILITIES	
.1	What facilities are provided for the following?	
•	Biomedical waste	Routine facility
•	Diary related activities	}
•	Slaughter house and unauthorised slaughtering	} Routine facility
•	Construction, demolition, debris and silt	}
•	Encroachments on footpaths, in parks	Periodically removed
•	How many slums have been identified and whether there are provided with sanitation facilities?	32 slums; Yes
•	Is there any enforcement wing for taking renal actions?	No
•	Whether any cases are registered and settled during last three years?	Yes
	No. of cases registered during last three years	253
	No. of cases settled during last three years	----

	Total recovery during last three years	----
•	SPECIAL/ UNIQUE SCHEMES OR INITIATIVES¹	
.1	Recycling schemes for plastic, PET bottles	Yes
.2	Encouraging community activity such as ALM ² formation	Yes
.3	Encouraging people's participation by building-wise or building complex-wise waste segregation and processing of organic waste by vermi-composting or composting	Yes
.4	Training needs for sanitary workers on health and safety issue	Yes
.5	Development of tools and implements	Yes
•	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	Yes
	• Recycled Plastics Manufacture and Usage Rules, 1999	Yes
	• 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.*

¹ Details of schemes can be provided on a separate sheet

2 Advance Locality Management