PROFORMA FOR SUBMI'TTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:		Belgaum		District:	
Name of Municipal Body:		City Corporation Belgaum		Division:	
Address	s:			State:	Karnataka
Telepho	one:			Fax:	
Email:				Website:	
•	DEMOGRAPHY				
.1	Name of Officer In-C	harge	Healtl	Health Officer	
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km²)		94.08 kms		
.3	No. of wards / zones		58 wards		
.4	Total population (as per 1991 census)		5 lakhs (approximately)		
.5	Total population (as per 2001 census)		No Information		
.6	Population		No Information		
.7	Total no. of household		No Information		
.8	Average maximum, minimum temperature (°C)		No Information		
.9	Average yearly maximum rainfall (mm)		No Information		
.10	Average maximum, minimum humidity		No Information		

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•	GENERATION OF MUNICIPAL SOLID WASTE	
.1	Total MSW generation (MT/day)	130 tonnes/day
.2	MSW generation (gms/capita/day)	275 gms/capita/day
.3	Of the total MSW generated	
•	Quantity of domestic, commercial MSW, industrial (non-toxic and non-hazardous) waste, waste from markets, waste from hotels and restaurants (MT/day)	
.1	Composition of MSW (Attach separate sheet)	
•	Physical characteristics	Statistics not available
•	Chemical characteristics	Statistics not available
•	SWEEPING	
.1	Total length of roads (with or without footpath) (km)	Statistics not available
•	Total length of cement-concrete roads (km)	20
•	Total length of asphalted roads (km)	351
•	Total length of Kutchha roads (km)	106
.1	Total no. of sweepers employed	
•	Departmental	
•	Contracted	
.1	Working hours of sweepers	6.00 a.m. to 10.00 a.m & 2.00 p.m to 5.00 p.m
.2	Norms of sweeping (e.g. one sweeper per population, or one sweeper per sq. m. area, or one sweeper per RMT road)	
.3	Sweeping carried out at a location by	o One sweepers
		o Two sweepers
		o Three or more sweepers
.4	Sweeping waste is put in a	o Box type wheel barrow
		o Containerised handcart
		o Cane or bamboo basket
		o Roadside bin
		o Open dump
		o Directly in the vehicle

.5	Frequency of sweeping	o All seven days a week
		 Six days in a week
		o Alternate days
		o Any other frequency (Please mention)
.6	Total no. of wheel barrows provided	125
.7	Total no. of containerised handcarts provided	No Information
.8	Type of broom provided	o Long handle (No.: 305)
		o Short handle (No.:
.9	Any other equipment provided (e.g. spade, shovel, tikow)	No Information
.10	Protective gear provided (e.g. leather hand gloves, gumboots, mask)	No Information
•	COLLECTION, STORAGE AND TRANSPORTAT	TION
.1	Area covered for collection of MSW	No Information
.2	No. of households covered	
.3	Is the segregation is carried out at source?	Yes/No
	If no, what steps have been taken?	
.4	Total quantity collected (MT/day)	
.5	MSW collected in mixed form (MT/day)	
.6	MSW collected in segregated form (MT/day)	
.7	Whether littering is prohibited by the municipality?	Yes/No.
.8	Whether litterbins are provided?	Yes/No
.9	Frequency of waste collection	o Once in 24 hours
		o Twice in 24 hours
		o Thrice in 24 hours
		 Alternate days
		 Any other frequency (Please mention)
.10	Is waste collected every day i.e. 7 days a week and 365 days a year?	Yes/No
	If no, give details	
.11	Total number, type, size, and capacity of storage	

bins / container / trailers provided

.12 Whether the bins are open or closed?

.13 Whether all bins are attended/cleaned daily? Yes/No
(i.e. 7 days a week and 365 days a year)

If no, mention details

.14 Whether the lifting of waste from the bins is manual or mechanical?

Total No.	Capacity (MT)	Daily required	At present	A 1 1242 1
			available	Additional proposed

40	Callagation data?							
.16	Collection details							
Type o		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
Compact (mobile)	tor							
Dumper placer (w 2.5 m ³ containe								
Dumper placer (w 4.5 m ³ / m ³ containe	7							
Open tru	ck							
Open tru with tippi								
Tractor- trailer with	th		1 to 3 tonne	50/day				
Tractor- trailer without tipping								
Auto rickshaw with/ without tipping								
Tricycle with/with tipping	out							
Any other	r							
type								
Total								
.17	If the vehicles are they covered with				No			

•	COLLECTION SYSTEM			
.1	Approximate MSW collected (MT)			
	o Household (urban)	}		
	o Slums	}		
	o Street sweeping	}		
	o Shops & commercial establishments	}		
	o Markets	} No Statistical available		
	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	70,006		
	o Shops, commercial establishments	Shops under KMC 1976 = 5445 & under P. F = 4070		
	o Slums, households, population	Not available		
	 Vegetable and fruit markets 	7		
	o Fish and meat markets	6+2		
	o Hawkers	Not available		
.3	No. of hotels, restaurants, eating houses	}		
	o Grade / class I	}		
	o Grade / class II	} 588		
	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	Not available		
.10	Hospitals/ clinics/ nursing homes Total no. of beds			
.11	Parks, gardens, recreation places like lakes, amusement parks	Not available		
.12	Building sites (under construction)			

.13 Slaughter houses Two

•		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?	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	
. '		Dumping grounds/iditidilit 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 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)	

Total cost of SWM services under various heads

10 Lakhs

- 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*.