

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of the City	Mangalore	District	Coimbatore
Name of Municipal Body	Mangalore city Corporation	Division	
Address	M.G Road, Manglore	State	Karnataka
Telephone		Fax	
Email		Website	
DEMOGRAPHY			
Name of Officer In-Charge	Health Officer		
Area of Municipal Corporation /Council (please provide map showing legal limits of municipal body)(km ²)	132.45 sq Km		
No.of wards/zones	60		
Population as per 2001 census	4,19,306		
Population as per 2008 census	5,55,244		
Urban			
Slums			
Floating population			
Total no. of household	98,000		
Average maximum temperature (°C)	37 ⁰ C		
Average minimum temperature (°C)	17 ⁰ C		
Average yearly maximum rainfall (mm)	4000 mm		
Average maximum humidity			
Average minimum humidity			
Average depth of water table			
Altitude (i.e. mean sea level)	Latitudinal parallel 12 ⁰ - 52 north Longitudinal meridians: 74 ⁰ -49 East		
Generation of Municipal Solid Waste			
MSW generation (gms/capita/day) per person			
Total MSW generation (MT/day) of	220		
Of the total MSW generated			
Quantity of domestic MSW (MT/day)			
Quantity of commercial MSW (MT/day)			

Quantity of industrial (non-toxic and nonhazardous) waste (MT/day)	
Quantity of waste from markets (MT/day)	
Quantity of waste from hotels and restaurants (MT/day)	
Composition of MSW (Attach separate sheet)	
Physical characteristics	
Organic Waste (%) Dust Paper (%) Plastic (%) Glass (%) Metal (%) Miscellaneous (%)	60
Chemical characteristics	
Carbon (%) Nitrogen (%) Phosphorous as P2O5 (%) Potassium as K2O (%) C/N ratio High Calorific value (kCal/kg) Moisture (%) Density of MSW (kg/m3)	
SWEEPING	
Total length of roads (with or without footpath) (km)	806 (As on 2005)
Total no. of sweepers employed	779
Departmental	323
Contracted	456
Working hours of sweepers	6.30 A.M to 1.30P.M
Norms of sweeping (e.g. one sweeper per ... population or one sweeper per ... sq. m. area, or one sweeper per ... RMT road)	
Sweeping carried out at a location by	One Sweeper
Sweeping waste is put in a...	Roadside bin

Frequency of sweeping	All Seven days a week
Total no. of wheel barrows provided	
Total no. of containerised handcarts provided	
Total capacity of wheel barrow (kg)	
No. of containers and its capacity in kg	120
Type of broom provided	Long handle
Any other equipment provided (e.g. spade, shovel, tikow)	Ghamela, Spade, Collecting tray
Protective gear provided (e.g. leather hand gloves, gumboots, mask)	Hand gloves, Gum Boot, Face Mask Caps etc
COLLECTION, STORAGE AND TRANSPORTATION	
Area covered for collection of MSW	
No. of households covered	40%
No. of households covered under door-to-door collection (bell ringing)	
Is the collection carried out by municipal authority or private contractor or NGO?	Primary Collection Outsourced
Is the segregation is carried out at source?	Yes
If no, what steps have been taken?	
Total quantity collected (MT/day)	200
MSW collected in mixed form (MT/day)	
MSW collected in segregated form (MT/day)	
Whether littering is prohibited by the municipality?	Yes
Whether litterbins are provided?	Yes

Frequency of waste collection	Once in 24 hrs
Is waste collected every day i.e. 7 days a week and 365 days a year?	Yes
If no, give details	
Total number, type, size, and capacity of storage bins / container / trailers provided	Cement bin (0.9 mts diameter)and 0.6 cu mts storage capacity and large masonry bins for depositing the waste ate Distance about 100-200 mts,1500 placer
Whether the bins are open or closed?	
Whether all bins are attended/cleaned daily? (i.e. 7 days a week and 365 days a year)	
If no, mention details	
Whether the lifting of waste from the bins is manual or mechanical?	

Open Truck								
Tractor trailer with tipping								
Ghanta gadi								
Total								

COLLECTION SYSTEM	
1. Approximate MSW Collected (MT) Household(urban) Slums Street sweeping Shops & commercial establishments Markets Hotels, restaurants, eating houses	
2 No.of Premises/establishments <ul style="list-style-type: none"> • Households • Shops, Commercial establishment • Slum,households,population • Vegetable and fruit markets • Fish and meat markets 	98,345 242 15
3 No. of hotels ,restaurants, eating houses No of star hotels	1007
5. Guesthouses, Marriage halls, Hostels	285
6. Hospitals/Clinics/nursing homes Total no. beds	322
7.Parks	
8. Industries	711
9. Holly Place	240
10 Schools	160
11 Slaughter houses	139
PROCESSING AND DISPOSAL OF MSW	
1.Total quantity of MSW Processed (MT/day)	145TPD
2. Technology/Technologies adopted	
• Composting (MT/day)	120 P
• Type of Composting	Aerobic
• Compost Produce	
• Is it done mechanically?	Yes
• Is it the compost sold	yes
MSW disposed off by open dumping (MT/day)	100T
MSW disposed off by Sanitary landfill (MT/day)	80T

Dumping grounds/landfill sites	
No of dumping /landfill sites	1 site (77.93 Acre)
Whether municipality legally Owns Them	Yes
Area of each dumping ground /landfill site	77.93 Acre
Whether the area will be sufficient for next 25 years	Yes
Distance (in Km) of Dumping grounds/landfill sites from Habitation,Drinking Water Source, Religious or monument Places	1.5 Km
Has it been designed scientifically	Yes
Whether the following facilities are provided	
<ul style="list-style-type: none"> • Weighbridge • Fencing • Approach roads/internal roads • Lightning facility • Site Office with Monitoring equipment • Managerial staff and manpower • Covering material used daily as per Rules 2000 	Yes Yes Yes Yes Yes Yes Yes
Is it available in sufficient quantity? <ul style="list-style-type: none"> • Gas venting arrangement • Lechate Collection System 	Yes No Yes
INSTITUTIONAL ARRANGMENT	
SWM Services provided in the city/town by	Municipality/Private Sector
Total No of Sweepers /Pourakarmikas/Laborers/Mukadam/Jathedars/daffedars,etc	350
PRIVATISATION	
Whether any of the following service is privatized	

• Sweeping	Yes
• Door-to-door collection	Yes
• Transportation	Yes
• Processing of MSW	No (It is outsourced)
• Sanitary landfilling	No
If no, whether any future plan for privatization	
• Details of NGO/CBO/Residential groups involved in any schemes/projects initiated by Municipal body in SWM/clean city Program	No
COST IMPLICATIONS IN SWM	
1 Expenditure(in Rupees/year)	
• Total Cost of SWM services under various heads	576 laks/year
• Establishment including salaries,uniform,etc	
• Tools ,equipment, and consumables including disinfectant	
• Operation and maintenance of garbage vehicles including fuel, oil, spare parts,tyres,batteries etc	
• Hining charges for contractors' vehicles & machinery,bulldozers,JCBs,etc	
1.The above total cost in terms of following activities (Rupees/year)	
Sweeping cost	No Information
Collection cost	No Information
Transportation cost	No Information
Disposal/Sanitary landfill cost	No Information
Cost recovery	
Annual Expenditure for SWM Services	900 lakhs/year
Cost of SWM services in Rupees per capita per year	

Cost of SWM services in Rupees per tonne of MSW	
Revenue generation (by sale of compost Vermi Compost ,energy/gas,etc	5 lakhs
OTHER FACILITIES	
What facilities are provided for the following	
Biomedical Waste	No
Slaughter house and unauthorized Slaughtering	Yes –MCC outsourced for this sector
Encroachment on footpaths, in parks	No
Is there any enforcement wing for taking renal actions? <ul style="list-style-type: none"> • Recovery of administrative charges • Fines under Municipal /Police act • Recourse to municipal Act by laws 	Yes Yes
Whether any cases are registered and settled during last three years	Yes
SPECIAL /UNIQUE SCHEMES OR INITIATIVES	
1 .Recycling schemes for plastics, PET bottles	Yes
2. Encouraging community activities such as ALM ² Formation	Yes
3. Encouraging peoples participation by building wise or building complex-wise waste segregation and processing of organic waste by vermi-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	yes

<ul style="list-style-type: none"> • Municipal Solid Waste(Management and Handling) Rules,2000 	
<ul style="list-style-type: none"> • Recycled plastics Manufacture and Usage Rules,1999 	
<ul style="list-style-type: none"> • Biomedical Waste (Management and Handling) Rule,1998 	
Place:	
Date:	Signature of the Municipal Commissioner /The Health officer/The Chief Engineer(SWM)
	Stamp

1 Details of Schemes can be provided on a separate sheet

2 Advance Locality Management