

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:	Ulhasnagar	District:	Thane
Name of Municipal Body:	Ulhasnagar Municipal Corporation	Division:	Konkan
Address:	Ulhasnagar	State:	Maharashtra
Telephone:	251-559618	Fax:	564637, 564708
Email:		Website:	
<ul style="list-style-type: none"> • DEMOGRAPHY 			
.1	Name of Officer In-Charge	DMC Health Department	
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km ²)	13	
.3	No. of wards / zones	25 Panels, 76 Wards	
.4	Total population (as per 1991 census)	3,63,077	
.5	Total population (as per 2001 census)	4,72,943	
.6	Population		
	<ul style="list-style-type: none"> • Urban 		
	<ul style="list-style-type: none"> • Slums & urban Population 	2,83,765	
.1	Floating population	9458	
.2	Total no. of household	1,14,633	
.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)	-	

•	GENERATION OF MUNICIPAL SOLID WASTE	
.1	Total MSW generation (MT/day)	236
.2	MSW generation (gms/capita/day) per person	500
.3	Of the total MSW generated	
•	Quantity of domestic MSW (MT/day)	118
•	Quantity of commercial MSW (MT/day)	30.68
•	Quantity of industrial (non-toxic and non-hazardous) waste (MT/day)	63.72
•	Quantity of waste from markets (MT/day)	11.80
•	Quantity of waste from hotels and restaurants (MT/day)	11.80
.1	Composition of MSW (Attach separate sheet)	
•	Physical characteristics	
○	Biodegradable (%)	45
○	Paper (%)	2-6
○	Plastic (%)	0.35 – 0.65
○	Glass (%)	0.3 – 0.65
○	Metal (%)	0.4 – 1
○	Inert, ash, debris (%)	-
○	Rags (%)	0.4 – 3.00
○	Stone (%)	-
○	Rubber / Tyre (%)	-
○	Coconut shell (%)	-
•	Chemical characteristics	Has not been carried out
○	Carbon (%)	
○	Nitrogen (%)	
○	Phosphorous as P ₂ O ₅ (%)	
○	Potassium as K ₂ O (%)	
○	C/N ratio	
○	Calorific value (kCal/kg)	
○	Density of MSW (kg/m ³)	

- Moisture content (%)

- **SWEEPING**

.1	Total length of roads (with or without footpath) (km)	122.97
	<ul style="list-style-type: none"> ● Total length of cement-concrete roads (km) ● Total length of asphalted roads (km) ● Total length of Kutchha roads (km) 	30.723 84.45 7.795
.1	Total no. of sweepers employed	1189
	<ul style="list-style-type: none"> ● 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 500 population or one sweeper per 0.3 km of road irrespective of width
.3	Sweeping carried out at a location by	
.4	Sweeping waste is put in a...	Box type wheel barrow / containerised handcart
.5	Frequency of sweeping	Every day
.6	Total no. of wheel barrows provided	350
.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	Long handle brooms 200 + short handle brooms 2000 per month, cane basket - 120
.11	Any other equipment provided (e.g. spade, shovel, tikow)	
.12	Protective gear provided (e.g. leather hand gloves, gumboots, mask)	

- **COLLECTION, STORAGE AND TRANSPORTATION**

.1	Area covered for collection of MSW	13
.2	No. of households covered	1,14,000
.3	No. of households covered under door-to-door collection (bell ringing)	Not done at present
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Private agency
.5	Is the segregation is carried out at source?	No segregation of waste. Collected in mixed form

	If no, what steps have been taken?	-
.6	Total quantity collected (MT/day)	236
.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>i.e.</i> 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	Collection bins – 466 MS , community dust bins – 466
.14	Whether the bins are open or closed?	-
.15	Whether all bins are attended/cleaned daily? <i>(i.e.</i> 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 details					
Dumper placer (with 4.5 m ³ / 8 m ³ 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)					

.18 Collection details								
Type of vehicle	No. of vehicles used	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
Compactor (mobile)	-	-	-	-	-	-	-	-
Dumper placer (with 2.5 m ³ containers)	-	-	-	-	-	-	-	-
Dumper placer (with 4.5 m ³ / 7 m ³ containers)	-	-	-	-	-	-	-	-
Open truck	20	-	2	5	2-4	-	118	-
Open truck with tipping	20	-	2	5	2-4	-	118	-
Tractor-trailer with tipping	-	-	-	-	-	-	-	-
Tractor-trailer without tipping	-	-	-	-	-	-	-	-
Auto rickshaw with/ without tipping	-	-	-	-	-	-	-	-
Tricycle with/without tipping	-	-	-	-	-	-	-	-
Any other type	-	-	-	-	-	-	-	-
Total								
.19	If the vehicles are open to atmosphere, are they covered with temporary plastic sheet?			Yes/No				
• COLLECTION SYSTEM								
.1	Approximate MSW collected (MT)			236				
	o Household (urban)			70.8				

	o Slums	47.2
	o Street sweeping	47.02
	o Shops & commercial establishments	30.68
	o Markets	11.8
	o Hotels, restaurants, eating housesGardens, parks, fairs	11.8
	o Slaughter houses	2.36
	o Building sites (debris, earth, etc.)	4.72
.2	No. of premises / establishments	
	o Households	-
	o Shops, commercial establishments	-
	o Slums, households, population	-
	o Vegetable and fruit markets	-
	o Fish and meat markets	-
	o Hawkers	-
.3	No. of hotels, restaurants, eating houses	-
	o Grade / class I	-
	o Grade / class II	-
	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	-
.10	Hospitals/ clinics/ nursing homes Total no. of beds	-
.11	Parks, gardens, recreation places like lakes, amusement parks	-
.12	Building sites (under construction)	-
.13	Slaughter houses	-

•	PROCESSING AND DISPOSAL OF MSW	
.1	Total quantity of MSW processed (MT/day)	-
.2	Technology / technologies adopted	-
o	Composting (MT/day)	Nil
o	Vermiculture (MT/day)	-
o	Pelletisation (MT/day)	-
o	Waste to energy (MT/day)	Proposed
.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]	236
• 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	<ul style="list-style-type: none"> ○ Shanti nagar – 5 Acres ○ Rana Trading – camp no 3 – 5 Acres ○ Khadi Madine – camp no 5- 3 acre ○ Khamba – proposed – extension municipal limits – 47 Hectares
Whether municipality legally owns them?	-
• Area of each dumping ground/ landfill site	47 Hectares
• Whether the area will be sufficient for next 25 years	No
• If no, then what steps have been taken to acquire land?	Aporox 5-8 year
• Distance (in km) of dumping ground / landfill site from ...	2-5
○ Habitation	-
○ Drinking water source	-
○ 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	No
• Fencing	No
• Approach roads/ internal roads	-
• Lighting facility	No
• 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	Not available
• Leachate collection system	Provision not made
• INSTITUTIONAL ARRANGEMENTS	
.1 SWM services provided in the city/town by	Health department
.2 Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	Data not given
.3 Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	1189 sweepers
.4 Organisational structure	-
• PRIVATISATION	
.1 Whether any of the following service is privatised?	
• Sweeping	No
• Door-to-door collection	Yes
• Community collection	-
• Transportation	Yes
• Processing of MAW	-
• Sanitary landfilling	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	Under consideration
• COST IMPLICATIONS IN SWM	

.1	Expenditure (in Rupees/Year)	
	• Total cost of SWM services under various heads	
	• Establishment including salaries, uniforms, <i>etc</i>	9,56,00,000
	• Tools, equipment, and consumables including disinfectant	70,00,000
	• Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, <i>etc</i>	2,33,60,000
	• Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, <i>etc</i>	53,00,000 (for clearing nala before monsoon)
	• Other miscellaneous expenses	
.1	The above total cost in terms of following activities (Rupees/Year)	
	• Sweeping cost	9,56,00,000
	• Collection cost	-
	• Transportation cost	2,33,00,000
	• 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, <i>etc.</i> (Rupees/Year)	-
	• Annual expenditure for SWM services	-
	Cost of SWM services in Rupees per capita per year	277
	Cost of SWM services in Rupees per tonne of MSW	-
	• OTHER FACILITIES	
.1	What facilities are provided for the following?	-

• Biomedical waste Hospital Medical Waste	There is one Municipal Hospital. There are 515 Nursing homes & clinics. At present the waste is just dumped. Setting up of separate bio- medical waste treatment facility is under consideration
• Diary related activities	No separate agreements
• Slaughter house and unauthorised slaughtering	Regularly lifting
• Construction, demolition, debris and silt	Regularly lifting
• Encroachments on footpaths, in parks	Regularly lifting
• How many slums have been identified and whether there are provided with sanitation facilities?	-
• Is there any enforcement wing for taking penal 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 INITIATIVES¹	
.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: 24-01-05

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.*