

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:	Gondia	District:	Gondia
Name of Municipal Body:	Gondia Municipal council	Division:	Nagpur
Address:		State:	Maharashtra
Telephone:	222380,22185	Fax:	
Email:		Website:	
<ul style="list-style-type: none"> • DEMOGRAPHY 			
.1	Name of Officer In-Charge	Chief Officer	
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km ²)	18.60	
.3	No. of wards / zones	13 wards	
.4	Total population (as per 1991 census)	1,09,470	
.5	Total population (as per 2001 census)	1,20,000	
.6	Population	58 Nos; 37,000 population	
	<ul style="list-style-type: none"> • Urban • Slums 	-	
.1	Floating population	Has not been estimated	
.2	Total no. of household		
.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)	40
.2	MSW generation (gms/capita/day) per person	333
.3	Of the total MSW generated	
•	Quantity of domestic MSW (MT/day)	20
•	Quantity of commercial MSW (MT/day)	7
•	Quantity of industrial (non-toxic and non-hazardous) waste (MT/day)	0
•	Quantity of waste from markets (MT/day)	8
•	Quantity of waste from hotels and restaurants (MT/day)	5
.1	Composition of MSW (Attach separate sheet)	
•	Physical characteristics	
○	Biodegradable (%)	-
○	Paper (%)	-
○	Plastic (%)	-
○	Glass (%)	-
○	Metal (%)	-
○	Inert, ash, debris (%)	-
○	Rags (%)	-
○	Stone (%)	-
○	Rubber / Tyre (%)	-
○	Coconut shell (%)	-
•	Chemical characteristics	
○	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)	139.10
	• Total length of cement-concrete roads (km)	8.69
	• Total length of asphalted roads (km)	39.83 sq.km / without footpath 14.92 sq. kms
	• Total length of Kutchha roads (km)	45.66
.1	Total no. of sweepers employed	284
	• 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
.3	Sweeping carried out at a location by	
.4	Sweeping waste is put in a...	In a box type wheel barrow/ containerised handcart
.5	Frequency of sweeping	Everyday
.6	Total no. of wheel barrows provided	75; 6 cubic mt; 36 kgs
.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	-
.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	18.60 sq. km
.2	No. of households covered	25000
.3	No. of households covered under door-to-door collection (bell ringing)	No
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Departmentally and private Agency
.5	Is the segregation is carried out at source?	No
	If no, what steps have been taken?	-
.6	Total quantity collected (MT/day)	35 MT

.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?	-
	If no, give details	-
.13	Total number, type, size, and capacity of storage bins / container / trailers provided	-
.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)	1	-	4.5	6	6	0.5	-	-
Dumper placer (with 4.5 m ³ / 7 m ³ containers)	-	-	-	-	-	-	-	-
Open truck	-	-	-	-	-	-	-	-
Open truck with tipping	-	-	-	-	-	-	-	-
Tractor-trailer with tipping	9/12	-	1.2	3	30	20	-	-
Tractor-trailer without tipping	4/ 7	-	1.5	-	-	-	-	-
Auto rickshaw with/ without tipping	-	-	-	-	-	-	-	-
Tricycle with/without tipping	-	-	-	-	-	-	-	-
Auto Bajaj	1	-	1.5	4 trips weekly	10	0.5	-	-
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)			35				
	○ Household (urban)			7				

	o Slums	8
	o Street sweeping	4
	o Shops & commercial establishments	5
	o Markets	5
	o Hotels, restaurants, eating housesGardens, parks, fairs	4
	o Slaughter houses	100 kgs
	o Building sites (debris, earth, etc.)	1
.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)	-
o	Vermiculture (MT/day)	-
o	Pelletisation (MT/day)	-
o	Waste to energy (MT/day)	-
.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	composting	30
	Vermi-compost produced (MT/day)	8
	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 ... -
 - 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 -
 - 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? -

•	Gas venting arrangement	-
•	Leachate collection system	-
•	INSTITUTIONAL ARRANGEMENTS	
.1	SWM services provided in the city/town by	Health
.2	Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	55
.3	Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	372
.4	Organisational structure	-
•	PRIVATISATION	
.1	Whether any of the following service is privatised?	
•	Sweeping	No
•	Door-to-door collection	Yes
•	Community collection	-
•	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, <i>etc</i>	1,51,83,556
	• Tools, equipment, and consumables including disinfectant	2,38,620
	• Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, <i>etc</i>	2,34,139
	• Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, <i>etc</i>	4,88,306
	• Other miscellaneous expenses	-
.1	The above total cost in terms of following activities (Rupees/Year)	
	• Sweeping cost	1,52,05,000
	• Collection cost	6,80,000
	• Transportation cost	2,45,621
	• 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	164.4 Lcs
	Cost of SWM services in Rupees per capita per year	134.5
	Cost of SWM services in Rupees per tonne of MSW	1126
	• OTHER FACILITIES	
.1	What facilities are provided for the following?	-

• Biomedical waste	There are 3 government hospitals with 179 beds in all & other are 20 nursing homes with 157 beds. At present there is no separate system for collection of bio- medical waste. The corporation collect on calling.
• Diary related activities	No
• Slaughter house and unauthorised slaughtering	100 kgs unauthorized
• Construction, demolition, debris and silt	-
• 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 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: 19- 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.*