

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town	: Bansberia	District: Hoogly		
Name of Municipal Body	: Bansberia	Division:		
Address:	: Office of the Municipal Councillors of Bansberia, Rudra Main Road, Bansberia	State: West Bengal		
Telephone:	: 26346324, 26346807	Fax:		
Email:		Website:		
<ul style="list-style-type: none"> DEMOGRAPHY 				
.1	Name of Officer In-Charge	: Sri Pratap Nandan, S.A.E, Sri AmitBhattacharjee, S.I.		
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km ²)			
.3	No. of wards / zones			
.4	Population as per 2001 census	: 1,04,412		
	<ul style="list-style-type: none"> Urban Slums 			
.1	Floating population			
<ul style="list-style-type: none"> GENERATION OF MUNICIPAL SOLID WASTE 				
.1	MSW generation (gms/capita/day) per person			
.2	Total MSW generation (MT/day)	: approx. 46-47 tonnes per day		
.3	Of the total MSW generated MT/day			
	<ul style="list-style-type: none"> Sources: domestic, commercial MSW, industrial, markets, hotels and restaurants waste (MT/day) 			
.1	Composition of MSW			
	<ul style="list-style-type: none"> Physical characteristics 			
Biodegradable (%)	Paper (%)	Plastic (%)	Glass (%)	Metal (%)
Inert, ash, debris (%)	Rags (%)	Stone (%)	Rubber/Tyre (%)	Coconut shell (%)
	<ul style="list-style-type: none"> 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 (%)	
<ul style="list-style-type: none"> SWEEPING 				
.1	Area: (Total length with or without footpath) in various types of road (km)			
Cement-concrete roads (km)	Asphalted roads (km)	Kutchha roads (km)		

	Departmental	Contracted
.2	Total no. of sweepers employed	
.3	Working hours of sweepers	
.4	Norms of sweeping one sweeper per ... population / one sweeper per ... sq. m. area / one sweeper per ... RMT road	
.5	Sweeping carried out at a location by	
.6	Sweeping waste is put in a...	
.7	Frequency of sweeping	
.8	Total no. of wheel barrows, containerised handcarts provided	
.9	Total capacity of wheel barrow, containers (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	: 22 wards
.2	No. of households covered	
.3	No. of households covered under door-to-door collection (bell ringing)	
.4	Is the collection carried out by municipal authority or private contractor or NGO?	
.5	Is the segregation is carried out at source? If no, what steps have been taken?	
.6	Total quantity collected (MT/day)	: approx. 40-42 tonnes per day
.7	MSW collected in mixed, segregated form (MT/day)	
.8	Whether littering is prohibited by the municipality?	
.9	Whether litterbins are provided?	
.10	Frequency of waste collection	
.11	Is waste collected every day <i>i.e.</i> 7 days a week and 365 days a year? If no, give details	
.12	Total number, type, size, and capacity of storage bins / container / trailers provided	: 250 bins- 4'3'2'
.13	Whether the bins are open or closed?	

.14 Whether all bins are attended/cleaned daily?
(i.e. 7 days a week and 365 days a year)

If no, mention details

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

.16 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								
Open truck with tipping								
Tractor-trailer with tipping								
Tractor-trailer without tipping	5							
Auto rickshaw with/ without tipping								
Tricycle with/without tipping	15							
Any other type								
Total								

.17 If the vehicles are open to atmosphere, are they covered with temporary plastic sheet? Yes/No

<p>• COLLECTION SYSTEM</p>				
.1 Approximate MSW collected (MT)				
Household (urban)	Slums	Street sweeping	Shops & commercial establishments	
Markets	Hotels	Restaurants	Eating houses	
Gardens	Parks	Fairs	Slaughter houses	
Building sites				
.2 No. of premises / establishments				
Households	Shops	Commercial establishments	Slums	Households
Population	Vegetable and fruit markets	Fish and meat markets	Hawker	
.3 No. of hotels, restaurants, eating houses				
<ul style="list-style-type: none"> • Grade / class I • Grade / class II • Grade / class III • No. of star hotels 				
.4 Guesthouses, Marriage halls, Hostels, Cinema halls, Theatres, Stables and no. of animals,				
.5 Hospitals/ clinics/ nursing homes Total no. of beds				
.6 Parks, gardens, recreation places like lakes, amusement parks, Building sites (under construction), Slaughter houses				
<p>• PROCESSING AND DISPOSAL OF MSW</p>				
.1 Total quantity of MSW processed (MT/day)				
.2 Technology / technologies adopted				
<ul style="list-style-type: none"> • Composting (MT/day) • Vermiculture (MT/day) • Pelletisation (MT/day) • 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 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]
 - 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

.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

• **PRIVATISATION**

.1 Whether any of the following service is privatised?

Sweeping	Door-to-door collection	Community collection
Transportation	Processing of MSW	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, 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? : 88 out of these 50% are covered by sanitation facilities.

- Is there any enforcement wing for taking renal actions?

Recovery of administrative charges

Fines under Municipal/Policy Act

Recourse to Municipal Act bye-laws

- Whether any cases are registered and settled during last three years?

No. of cases registered, settled during last three years

- **SPECIAL/ UNIQUE SCHEMES OR INITIATIVES¹**

- .1 Recycling schemes for plastic, PET bottles
- .2 Encouraging community activity such as ALM² 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 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:

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

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.