Name o	of City/Town:	Sera	impore		District:	Hoogly	
Name of Municipal Body:			Serampore Municipality		Division:		
Address:		I.N.S Hoo	S. Avenue, Serampore gly	e,	State:	West Bengal	
Telepho	one:	2662	2-0310, 2662-1539		Fax:	2662-3651	
Email:					Website:		
•	DEMOGRAP	HY					
.1	Name of Offic	er In-Charge		: Sanit	ary Inspector		
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km <sup>2</sup> )						
.3	No. of wards	/ zones					
.4	Population as	per 2001 census		: 1,97,9	955		
•	Urban						
•	Slums						
.1	Floating population						
•	GENERATION OF MUNICIPAL SOLID WASTE						
.1	MSW generation (gms/capita/day) per person						
.2	Total MSW generation (MT/day) : 50 MTS approx						
.3	Of the total MSW generated MT/day						
•	Sources: domestic, commercial MSW, industrial, markets, hotels and restaurants waste (MT/day)						
.1	Composition of MSW						
•	Physical char	acteristics					
Biodegr	adable (%)	Paper (%)	Plastic (%)		Glass (%)	Metal (%)	
Inert, as	sh, debris (%)	Rags (%)	Stone (%)		Rubber/Tyre (	(%) Coconut shell (%)	
•	Chemical cha	racteristics					
Carbon	Carbon (%) Nit		trogen (%)		ous as P2O5 (%	b) Potassium as K2O (%)	
C/N rati	0	Calorific	value (kCal/kg)	Density of	MSW (kg/m <sup>3</sup> )	Moisture content (%)	
•	SWEEPING						
.1	Area: (Total length with or without footpath) in various types of road (km)						
Cemen	t-concrete road	s (km)	Asphalted roads (kr	n)	) Kutchha roads (km)		
.2	Total no. of s	weepers employe	d	Departn	nental	Contracted	

#### PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

.3	Working hours of sweepers						
.4	Norms of sweeping						
one	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	Total no. of wheel barrows, containerised handcarts					
.9	Total capacity of wheel barrow, containers (kg)						
.10	Type of broom provided						
.11	Any other equipment provided ( <i>e.g.</i> spade, shovel, tikow)						
.12	Protective gear provided ( <i>e.g.</i> leather hand gloves, gumboots, mask)						
•	COLLECTION, STORAGE AND TRANSPORTATION						
.1	Area covered for collection of MSW	: 17.5 sq.km					
.2	No. of households covered	: approx 15000-20000					
.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?	: Municipality					
.5	Is the segregation is carried out at source?						
	If no, what steps have been taken?						
.6	Total quantity collected (MT/day)	: 42-43 MTS Approx					
.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 RCC bins, 75 trolleys- 30 kgs,					
.13	Whether the bins are open or closed?						
.14	Whether all bins are attended/cleaned daily? ( <i>i.e.</i> 7 days a week and 365 days a year)						
h							

	lf no, i	mention details							
.15	Whether the lifting of waste from the bins is manual : Manual or mechanical?								
.16	Collec	tion details							
Typ veh		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
Compa (mobile									
Dumpe placer ( 2.5 m <sup>3</sup> contain	(with								
Dumpe placer ( 4.5 m <sup>3</sup> , contain	(with / 7 m <sup>3</sup>								
Open tr	ruck								
Open tr with tip									
Tractor with/wit tipping		13							
Auto ric with/ wi tipping									
Tricycle with/wit tipping									
Any oth type	ner	13 Refuse collectors							
Total									
.17		vehicles are op ed with tempora			y Yes/N	No			
•	COLL	ECTION SYST	ЕМ						
.1	Appro	ximate MSW co	ollected (MT	-)					

Household (urban)		Slums	Street sweeping	Shops & commer	cial establishments
Markets		Hotels	Restaurants	Eating houses	
Gardens Parks		Fairs	Slaughter houses		
Buildin	g sites				
.2	No. of pren	nises / establishment	S		
House	holds	Shops	Commercial establishments	Slums	Households
Popula	ition	Vegetable and fruit markets	Fish and meat markets	Hawker	
.3	No. of hote	ls, restaurants, eating	g houses		
	Grad	e / class I			
	Grade	e / class II			
	Grade	e / class III			
	• No. o	of star hotels			
.4		es, Marriage halls, H tres, Stables and no.			
.5	Hospitals/ clinics/ nursing homes Total no. of beds				
.6	Parks, gardens, recreation places like lakes, amusement parks, Building sites (under construction), Slaughter houses				
•	PROCESSING AND DISPOSAL OF MSW				
.1	Total quantity of MSW processed (MT/day)				
.2	Technology / technologies adopted				
•	Composting (MT/day)				
•	Vermicultu	re (MT/day)			
•	Pelletisatio	n (MT/day)			
•	Waste to e	nergy (MT/day)			
.3	Compostin	g			
	Compost p	oroduced (MT/year)			
	Is it done n	nechanically?			
	Is it the cor	mpost sold?			
	If yes, the	quantity sold (MT/yea	r)		
•	Total rever	nue generated (Rupe	es/year)		
.1	Vermi-com				
	Vermi-com	post produced (MT/d	ay)		

		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 simont on side as				
•	Distance from airport or airbase				
•	Has it been designed scientifically				
•	Has the existing dumping ground been upg as required by MSW Rules, 2000	graded			
	If no, what steps have been taken (provide details)				
.1	Whether the following facilities are provided	d			
•	Weighbridge, Fencing, Approach roads/ introads, Lighting facility, Site office with mon equipment, Managerial staff and manpowe	itoring	: Weighing bridge facility is available		
•	Covering material used daily as per Rules	2000 : No			
	Is it available in sufficient quantity?				
•	Gas venting arrangement	: No			
•	Leachate collection system	: No			
•	INSTITUTIONAL ARRANGEMENTS				
.1	SWM services provided in the city/town by				
.2	Total no. of Supervisory Staff provided ( <i>e.g.</i> Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, <i>etc.</i> )				
.3	Total no. of sweepers/ Pourakarmikas/ labo Mukadam/ Jathedars/ Daffedars, <i>etc</i> .	ourers/			
.4	Organisational structure				
•	PRIVATISATION				
.1	Whether any of the following service is priv	atised?			
Sweepi	ng Door-to-do	por collection	Community collection		
Transpo	prtation Processing	g of MSW	Sanitary landfilling		
	If yes, provide details				
	If no, whether any future plans for privatisa	tion			
•	Details of NGO/ CBO/ Residential groups i in any schemes/ projects initiated by munic 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, vermicompost, 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 : approx. 29% of total population there are provided with 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 INITIATIVES <sup>1</sup>	
.1	Recycling schemes for plastic, PET bottles	
.2	Encouraging community activity such as ALM <sup>2</sup> 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: Serampore	
	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*.

<sup>&</sup>lt;sup>1</sup> Details of schemes can be provided on a separate sheet

<sup>2</sup> Advance Locality Management