

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:	Agra	District:	Agra
Name of Municipal Body:	Nagar Nigam Agra	Division:	Agra
Address:	Nagar Nigam Agra	State:	Uttar Pradesh
Telephone:	2150670	Fax:	
Email:		Website:	
<ul style="list-style-type: none"> <li> <b>DEMOGRAPHY</b> </li> </ul>			
.1	Name of Officer In-Charge		Municipal commissioner
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km <sup>2</sup> )		140
.3	No. of wards / zones		19
.4	Total population (as per 1991 census)		7.81 lakhs
.5	Total population (as per 2001 census)		12.71 lakhs
.6	Population		
	<ul style="list-style-type: none"> <li>Slums</li> </ul>		3,25,000
.1	Floating population		80,000
.2	Total no. of household		2,85,000
.3	Average maximum temperature (°C)		47
.4	Average minimum temperature (°C)		4
.5	Average yearly maximum rainfall (mm)		95 %
.6	Average maximum humidity		46 %

- **GENERATION OF MUNICIPAL SOLID WASTE**

.1	Total MSW generation (MT/day)	650
.2	MSW generation (gms/capita/day)	No Information
.3	Of the total MSW generated	No Information

( domestic, commercial, industrial, from markets, hotels and restaurants ) MT/day

- .4 Composition of MSW

- Physical characteristics

o	Biodegradables (%)	46.38
o	Recyclables (%)	15.79

- Chemical characteristics

o	C/N ratio (%)	21.56
o	High Calorific Value (Kcal/kg)	520
o	Moisture (%)	28

- **SWEEPING**

.1	Total length of roads (with or without footpath) (km)	1820
	<ul style="list-style-type: none"> <li>• Total length of cement-concrete roads (km)</li> <li>• Total length of asphalted roads (km)</li> <li>• Total length of Kutchha roads (km)</li> </ul>	166 840 914
.1	Total no. of sweepers employed	2215
	<ul style="list-style-type: none"> <li>• Departmental</li> <li>• Contracted</li> </ul>	2215 300
.1	Working hours of sweepers	7 Hrs
.2	Norms of sweeping (e.g. one sweeper per ... population, or one sweeper per ... sq. m. area, or one sweeper per ... RMT road)	35-40/10,000 population
.3	Sweeping carried out at a location by	o
.4	Sweeping waste is put in a...	o
.5	Frequency of sweeping	Six days in a week
.6	Total no. of wheel barrows provided	Approximately 800
.7	Total no. of containerised handcarts provided	10

.8	Total capacity of wheel barrow (kg)	No
.9	No. of containers and its capacity in kg	1 sq ft each
.10	Type of broom provided	Long handle (No.: ---) Short handle (No.: ---)
.11	Any other equipment provided (e.g. spade, shovel, tikow)	No Information
.12	Protective gear provided (e.g. leather hand gloves, gumboots, mask)	No Information
<b>• COLLECTION, STORAGE AND TRANSPORTATION</b>		
.1	Area covered for collection of MSW	No
.2	No. of households covered	No
.3	No. of households covered under door-to-door collection (bell ringing)	2000 houses, recently it is started as a pilot project
.4	Is the collection carried out by municipal authority or private contractor or NGO?	N. A. and NGO
.5	Is the segregation is carried out at source? If no, what steps have been taken?	No We are starting segregation in Ram Nagar, Nehru Nagar and Surya Nagar
.6	Total quantity collected (MT/day)	650
.7	MSW collected in mixed form (MT/day)	650
.8	MSW collected in segregated form (MT/day)	No Information
.9	Whether littering is prohibited by the municipality?	Yes
.10	Whether litterbins are provided?	No
.11	Frequency of waste collection	o Once in 24 hours
.12	Is waste collected every day <i>i.e.</i> 7 days a week and 365 days a year? If no, give details	Yes/No
.13	Total number, type, size, and capacity of storage bins / container / trailers provided	200 (8 m3 ) containers 160 ( 4.5 m3 ) containers
.14	Whether the bins are open or closed?	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	No
.16	Whether the lifting of waste from the bins is manual or mechanical?	Mechanical

.17 Vehicle details					
Dumper placer (with 4.5 m <sup>3</sup> / 8 m <sup>3</sup> containers)	16				300
	16				300
Open truck					
Open truck with tipping	35	16 = 6 m <sup>3</sup> 19 = 8 m <sup>3</sup>			
Tractor-trailer without tipping	3	2 m <sup>3</sup>			
Auto rickshaw with or without tipping	5	1 m <sup>3</sup>			
Tricycle with or without tipping	Nil				
Any other type (please mention)	Nil				

.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 <sup>3</sup> containers)								
Dumper placer (with 4.5 m <sup>3</sup> / 7 m <sup>3</sup> containers)								
Open truck								
Open truck with tipping								
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) No Information

.2	No. of premises / establishments	No Information
.3	No. of hotels, restaurants, eating houses	30-40 restaurants
	o Grade / class I	
	o Grade / class II	
	o Grade / class III	
	o No. of star hotels	
.4	Guesthouses	96
.5	Cinema halls Marriage halls	
.6	Marriage halls, Hotels, Theatres, Stables and no. of beds, Hospitals/ clinics/ nursing homes, Parks, gardens, Building sites, Slaughter houses	No information
.7	Marriage halls	26

<ul style="list-style-type: none"> <li>● <b>PROCESSING AND DISPOSAL OF MSW</b></li> </ul>		
.1	Total quantity of MSW processed (MT/day)	No Information
.2	Technology / technologies adopted	No Information
	○ Composting (MT/day)	No Information
	○ Vermiculture (MT/day)	No Information
	○ Pelletisation (MT/day)	No Information
	○ Waste to energy (MT/day)	Proposed
.3	Dumping grounds/landfill sites	1
	● MSW disposed off by open dumping (MT/day) [mixed/inert]	All
	● MSW disposed off by controlled dumping (MT/day) [mixed/inert]	Proposed ( developing stage )
	● MSW disposed off by sanitary landfill (MT/day) [mixed/inert]	
	● No. of dumping grounds/ landfill sites	1
	Whether municipality legally owns them?	Yes
	● Area of each dumping ground/ landfill site	16 hectares ( proposed 25 hectares )
	● Whether the area will be sufficient for next 25 years	Yes
	● If no, then what steps have been taken to acquire land?	Proposed site will be operate with in 6 months
	● Distance (in km) of dumping ground / landfill site from ...	
	○ Habitation	1 km
	○ Drinking water source	Not known
	○ Religious or monument places	No
	● Distance from airport or airbase	25 kms
	● Has it been designed scientifically	Proposed
	● Has the existing dumping ground been upgraded as required by MSW Rules, 2000	Proposed
	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	No Information
Is it available in sufficient quantity?	No Information
• Gas venting arrangement	Old
• Leachate collection system	Old
• <b>INSTITUTIONAL ARRANGEMENTS</b>	
.1 SWM services provided in the city/town by	Municipality / NGO
.2 Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	2 health officer 2 chief sanitary officer 16 sanitary inspector 105 S. Supervisors
.3 Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	
.4 Organisational structure	
• <b>PRIVATISATION</b>	
.1 Whether any of the following service is privatised?	
• Sweeping	Yes proposed for Taj ( 1 km ground )
• Door-to-door collection	Yes with NGO
• Community collection	No
• Transportation	Yes secondary for transport for new site
• Processing of MAW	No
• Sanitary landfilling	Yes for power corportion
• Details of NGO/ CBO/ Residential groups involved in any schemes/ projects initiated by municipal body in SWM/ clean city program	
• <b>COST IMPLICATIONS IN SWM</b>	
.1 Expenditure (in Rupees/Year)	No Information



	• Total cost of SWM services under various heads	No Information
	• Establishment including salaries, uniforms, etc	1.25 Crores per month
	• Tools, equipment, and consumables including disinfectant	16 lakhs per month
	• Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, etc	No Information
	• Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, etc	No Information
	• Other miscellaneous expenses	No Information
.1	The above total cost in terms of following activities (Rupees/Year)	
	• Sweeping cost, Collection cost, Transportation cost, Processing cost, Disposal / sanitary landfill cost	No Information
.1	Cost recovery	
	• <b>OTHER FACILITIES</b>	
.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	No
	• How many slums have been identified and whether there are provided with sanitation facilities?	No Information
	• Is there any enforcement wing for taking renal actions?	Yes
	Recovery of administrative charges	Court punishable
	Fines under Municipal/Police Act	12,000-14,000 constant figure
	Recourse to Municipal Act bye-laws	
	• Whether any cases are registered and settled during last three years?	No Information
	• <b>SPECIAL/ UNIQUE SCHEMES OR INITIATIVES<sup>1</sup></b>	
.1	Recycling schemes for plastic, PET bottles	No
.2	Encouraging community activity such as ALM <sup>2</sup>	No

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

	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	Yes
.4	Training needs for sanitary workers on health and safety issue	No
.5	Development of tools and implements	No
.6	Please provide list of potential NGO for implementing any of the initiatives (any association registered with municipal body/ unregistered local area management)	No Information
•	<b>AWARENESS</b>	
.1	Are you aware of the various notifications of the Ministry of Environment and Forests, Government of India	No Information
•	Municipal Solid Waste (Management and Handling) Rules, 2000	Yes
•	Recycled Plastics Manufacture and Usage Rules, 1999	Yes
•	Biomedical Waste (Management and Handling) Rules, 1998	Yes
•	Coastal Regulatory Zones Rules, 1991 (amended up to 2002)	Yes
	Place:	
	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.