

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town:	PUNE	District:	PUNE
Name of Municipal Body:	PUNE Municipal Corporation	Division:	Pune
Address:	Shivaji Nagar, Pune – 411 005	State:	Maharashtra
Telephone:	5501000	Fax:	5501104
Email:		Website:	
DEMOGRAPHY			
.1	Name of Officer In-Charge	Dr. Arul M. Ravetkar, Medical Officer of Health	
.2	Area of Municipal Corporation /Council (Please provide map showing legal limits of municipal body) (km ²)	264 sq. kms	
.3	No. of wards / zones	4 Zones / 14 Ward Offices	
.4	Total population (as per 1991 census)	15,66,651	
.5	Total population (as per 2001 census)	25,40,000	
.6	Population		
	• Urban	13,00,000	
	• Slums	12,40,000	
.1	Floating population	2,05,000 approx	
.2	Total no. of household	5,25,000	
GENERATION OF MUNICIPAL SOLID WASTE			
.3	Total MSW generation (MT/day)	1000 MT	
.4	MSW generation (gms/capita/day)	390 gm	
.5	Of the total MSW generated		
	• Quantity of domestic MSW (MT/day)	400	
	• Quantity of commercial MSW (MT/day)	250	
	• Quantity of industrial (non-toxic and non-hazardous) waste (MT/day)	0	
	• Quantity of waste from markets (MT/day)	50	
	• Quantity of waste from hotels and restaurants (MT/day)	250	
.1	Composition of MSW (Attach separate sheet)		
	• Physical characteristics		
	○ Biodegradable (%)	62.44	
	○ Paper (%)	0.8	

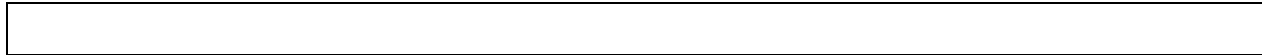
- Plastic (%) 0.7
- Glass (%) 0.6
- Metal (%) 0.4
- Inert, ash, debris (%)
- Chemical characteristics
 - C/N ratio 35.54
 - High calorific value (Kcal/kg) 2531
 - Moisture content(%) 63

COLLECTION, STORAGE AND TRANSPORTATION

- .1 Area covered for collection of MSW 264 sq. km
- .2 No. of households covered 5,25,000
- .3 No. of households covered under door-to-door collection (bell ringing) Under study
- .4 Is the collection carried out by municipal authority or private contractor or NGO? P.M.C. Pune
- .5 Is the segregation is carried out at source? Yes, Partially
- .6 MSW collected in mixed form (MT/day) Mixed
- .7 Is waste collected every day
i.e. 7 days a week and 365 days a year? Yes
- .8 Total number, type, size, and capacity of storage bins / container / trailers provided RCC bins : 487, 10' x 4' x 5'
- .9 Whether all bins are attended/cleaned daily?
(i.e. 7 days a week and 365 days a year) Yes
- .10 Whether the lifting of waste from the bins is manual or mechanical? 0-75% mechanical, 25% Manual

.11 Vehicle details

Type	Total No.	Capacity (MT)	Daily required	At present available	Additional proposed
Compactor (mobile)		12 cu.m		8	12
Dumper placer (with 4.5 m ³ / 7 m ³ containers)		3.8 cu.m		80	NIL
Open truck		6 cu.m		7	NIL
Open truck with tipping		6 cu.m		45	NIL
Bulk Refuse Collector		7 cu.m		40	8



.12 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)	8		12 cu.m						
Dumper placer (with 4.5 m ³ / 7 m ³ containers)	80		3.8 cu.m						
Open truck	7		6 cu.m						
Open truck with tipping	45		6 cu.m						
Bulk Refuse Collector	40		7 cu.m						
PROCESSING AND DISPOSAL OF MSW									
.13 Dumping grounds/landfill sites									
• No. of dumping grounds/ landfill sites				One : 4 Acres					
• Distance (in km) of dumping ground / landfill site from ...				22 km					
• Has it been designed scientifically				Yes – 25 years					
.1 Whether the following facilities are provided									
• Weighbridge				Yes					
• Fencing				Yes					
• Lighting facility				Yes					
• Managerial staff and manpower				Yes – 80 to 100					
• Covering material used daily as per Rules 2000				As and when required					
Is it available in sufficient quantity?				Intermittently					
• Gas venting arrangement				Work in progress					
• Leachate collection system				Work in progress					
INSTITUTIONAL ARRANGEMENTS									

.1	SWM services provided in the city/town by	Pune Municipal Corporation
.2	Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	303
.3	Total no. of sweepers/ Pourakarmikas/ labourers/ Mukadam/ Jathedars/ Daffedars, etc.	6331 (All class IV staff)
.4	Organisational structure	Attached

PRIVATISATION

.5	Whether any of the following service is privatised?	
	• Sweeping	No
	• Door-to-door collection	No
	• Transportation	No
	• Processing of MSW	No
	If yes, provide details	N.A.
	If no, whether any future plans for privatisation	No

COST IMPLICATIONS IN SWM

.1	Expenditure (in Rupees/Year)	
	• Total cost of SWM services under various heads	
	• Establishment including salaries, uniforms, etc	Rs. 32,96,16,235
	• Tools, equipment, and consumables including disinfectant	Rs. 18,00,000
	• Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, etc	Rs. 4,08,78,825
	• Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, etc	Rs. 25,00,000
	• Other miscellaneous expenses	R s. 1,50,00,000
.1	The above total cost in terms of following activities (Rupees/Year)	

•	Sweeping cost	Rs. 21,66,59,199
•	Collection cost	Rs. 7,30,00,000
•	Transportation cost	Rs. 9,95,30,861
•	Processing cost	NIL
•	Disposal / sanitary landfill cost	NIL
.1	Cost recovery	
•	Tipping fee or trade refuse charges (Rupees/Year)	NIL
•	Revenue generation (by sale of compost, vermi-compost, energy/ gas, etc.) (Rupees/Year)	NIL
•	Annual expenditure for SWM services	Rs.38,91,90,060
	Cost of SWM services in Rupees per capita per year	Rs. 153
	Cost of SWM services in Rupees per tonne of MSW	Rs. 1421

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 Yes
 - Recycled Plastics Manufacture and Usage Rules, 1999 Yes
 - Biomedical Waste (Management and Handling) Rules, 1998 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.