PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

Name of City/Town: Navghar Manickpur District: Thane

Name of Municipal Body: Navghar Manickpur Municipal Division: Konkan

Council

Address: Vasai rd (W) State: Maharashtra

Telephone: 334354, 334258, 348102 Fax: 334653

Email: Website:

DEMOGRAPHY

.1 Name of Officer In-Charge Sanitary Inspector

.2 Area of Municipal Corporation /Council 16(Please provide map showing legal limits of

municipal body) (km²)

.3 No. of wards / zones 26 Election ward

.4 Total population (as per 1991 census) 56000 (Panchayat)

.5 Total population (as per 2001 census) 1.16,700 (1994- council B 2001 – council A)

.6 Population

Urban

Slums & urban Poor 1020

.1 Floating population 5000

.2 Total no. of household 36,00

.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) -

•	GEN	NERATION OF MUNICIPAL SOLID WASTE	
.1	Tota	I MSW generation (MT/day)	35
.2	MSV	V generation (gms/capita/day) per person	300 gm
.3	Of th	ne total MSW generated	
•	Qua	ntity of domestic MSW (MT/day)	15
•	Qua	ntity of commercial MSW (MT/day)	3
•		ntity of industrial (non-toxic and non- ardous) waste (MT/day)	5
•	Qua	ntity of waste from markets (MT/day)	7
•		ntity of waste from hotels and restaurants /day)	5
.1	Com	position of MSW (Attach separate sheet)	
•	Phys	sical characteristics	
	0	Biodegradable (%)	32.1
	0	Paper (%)	5.9
	0	Plastic (%)	4.6
	0	Glass (%)	0.5
	0	Metal (%)	0.1
	0	Inert (%)	16.0
	0	Rags (%)	
	0	Stone (%)	
	0	Rubber / Tyre (%)	
	0	Coconut shell (%)	
	0	Other	16.4
	0	Inert	16.0
•	Che	mical characteristics	
	0	Carbon (%)	-
	0	Nitrogen (%)	-
	0	Phosphorous as P ₂ O ₅ (%)	-
	0	Potassium as K₂O (%)	-
	0	C/N ratio	-
	0	Calorific value (kCal/kg)	-
	0	Density of MSW (kg/m ³)	-

	o Moisture content (%)	-
•	SWEEPING	
.1	Total length of roads (with or without footpath) (km)	96.5
•	Total length of cement-concrete roads (km)	11
•	Total length of asphalted roads (km)	85
•	Total length of Kutchha roads (km)	0.5
.1	Total no. of sweepers employed	-
•	Departmental	-
•	Contracted	-
.1	Working hours of sweepers	185
.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 3000 sq.m area
.3	Sweeping carried out at a location by	-
.4	Sweeping waste is put in a	-
.5	Frequency of sweeping	-
.6	Total no. of wheel barrows provided	96
.7	Total no. of containerised handcarts provided	-
.8	Total capacity of wheel barrow (kg)	25
.9	No. of containers and its capacity in kg	-
.10	Type of broom provided	Long Handle Broom for each sweeper, rain coat & Gumboot
.11	Any other equipment provided (e.g. spade, shovel, tikow)	-
.12	Protective gear provided (e.g. leather hand gloves, gumboots, mask)	-
•	COLLECTION, STORAGE AND TRANSPORTAT	TION
.1	Area covered for collection of MSW	Full area, all 7 days, 365 days a year
.2	No. of households covered	12,500
.3	No. of households covered under door-to-door collection (bell ringing)	50,000 population
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Collection by private agencies. Transportation by private

.5	Is the segregation is carried out at source?	-
	If no, what steps have been taken?	-
.6	Total quantity collected (MT/day)	34
.7	MSW collected in mixed form (MT/day)	-
.8	MSW collected in segregated form (MT/day)	There is no segregation of waste. The waste is collected in mixed form
.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.e. 7 days a week and 365 days a year?	Yes all 7 Days , 365 days
	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.e. 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?	-

.17 Vehicle de	etails		
Dumper placer (with 4.5 m³ / 8 m³ 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)			

Туре о	f No. of	No. of	Capacity	No. of	Distance	Quantity	Quantity	No. of
vehicle		shifts	(MT)	trips/ shift	travelled / shift	of MSW carried / shift (MT)	of MSW carried out / day (MT)	workers / vehicle
Compacto (mobile)	or -	-	-	-	-	-	-	-
Dumper placer (wind 2.5 m ³ containers		-	-	-	-	-	-	-
Dumper placer (wi 4.5 m ³ / 7 containers	m^3	-	-	-	-	-	-	-
Open truc	k 1	-	1.5	2	20	3	-	-
Open truc		-	-	-	-	-	-	-
Tractor- trailer with tipping	2	-	1.5	10	20/20/20	6/6/3		
Tractor- trailer with tipping	4 nout	-	1.0	16	20/20	8/8	-	-
Auto rickshaw with/ withoutipping	- out	-	-	-	-	-	-	-
Tricycle with/witho tipping	- ut	-	-	-	-	-	-	-
Any other type								
Total								
	f the vehicles are covered with temp			hey Yes/ľ	No			
• (COLLECTION SY	STEM						
.1 A	Approximate MSV	V collected (N	Л Т)					
	o Household (urhan)		13				

	0	Slums	0.5
	0	Street sweeping	3
	0	Shops & commercial establishments	5
	0	Markets	7
	0	Hotels, restaurants, eating housesGardens, parks, fairs	3
	0	Slaughter houses	2
	0	Building sites (debris, earth, etc.)	0.5
.2	No.	of premises / establishments	
	0	Households	-
	0	Shops, commercial establishments	-
	0	Slums, households, population	-
	0	Vegetable and fruit markets	-
	0	Fish and meat markets	-
	0	Hawkers	-
.3	No.	of hotels, restaurants, eating houses	-
	0	Grade / class I	-
	0	Grade / class II	-
	0	Grade / class III	-
	0	No. of star hotels	-
.4	Gue	sthouses	-
.5	Marı	riage halls	-
.6	Hos	tels	-
.7	Cine	ema halls	-
.8	The	atres	-
.9	Stab	oles and no. of animals	-
.10		pitals/ clinics/ nursing homes Il no. of beds	-
.11		ss, gardens, recreation places like lakes, sement parks	-
.12	Build	ding sites (under construction)	-
.13	Slau	ghter houses	-

•		PROCESSING AND DISPOSAL OF MSW	
.1		Total quantity of MSW processed (MT/day)	NIL
.2		Technology / technologies adopted	-
	0	Composting (MT/day)	NIL
	0	Vermiculture (MT/day)	Proposed
	0	Pelletisation (MT/day)	-
	0	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	One Navghar (E), 3.63 Ha, Survey no. 55A

 MSW disposed off by open dumping (MT/day) Open dumping 	
[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 3.63	
 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	
o Habitation -	
o Drinking water source -	
o 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 No	
Fencing Worked in progress	
Approach roads/ internal roads -	
Lighting facility Yes	
Site office with monitoring equipment -	
Managerial staff and manpower 1 person per shift (2 shifts)	
 Covering material used daily as per Rules Debris is used as covering material used daily as per Rules 	aterial
Is it available in sufficient quantity?	

•	Gas venting arrangement	Not available
•	Leachate collection system	Provision not made
•	INSTITUTIONAL ARRANGEMENTS	
.1	SWM services provided in the city/town by	Health officer
.2	Total no. of Supervisory Staff provided (e.g. Health officer/ Assistant Health officer/ Chief Sanitary Inspector/ sanitary Inspector/ Sanitary Supervisors, etc.)	2 – Sanitary inspector
.3	Total no. of sweepers/ Pourakarmikas/	9 – Mukadam, 1 - Sr.cleark, 35 – sweepers and
	labourers/ Mukadam/ Jathedars/ Daffedars, etc.	225 labours
.4	Organisational structure	-
•	PRIVATISATION	
.1	Whether any of the following service is privatised?	
•	Sweeping	Yes
•	Door-to-door collection	Yes
•	Community collection	-
•	Transportation	No
•	Processing of MAW	No
•	Sanitary landfilling	No
	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	85,97,114
	•	Tools, equipment, and consumables including disinfectant	17,80,653
	•	Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, <i>etc</i>	12,57,000
	•	Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, <i>etc</i>	4,00,000
	•	Other miscellaneous expenses	3,00,000 (Poclain for clearing Nallah)
.1		The above total cost in terms of following activities (Rupees/Year)	
	•	Sweeping cost	66,0,000
	•	Collection cost	24,12,000
	•	Transportation cost	12,57,000
	•	Processing cost	-
	•	Disposal / sanitary landfill cost	72,000
.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	126.41 lacs
		Cost of SWM services in Rupees per capita per year	108.32
		Cost of SWM services in Rupees per tonne of MSW	989.51
•		OTHER FACILITIES	
.1		What facilities are provided for the following?	-

•	Biomedical waste	There is no hospital under the council. There are private nursing homes, clinics- 158 in all, the mixed with general municipal waste
•	Diary related activities	No stables in our area
•	Slaughter house and unauthorised slaughtering	Nil
•	Construction, demolition, debris and silt	Malba 3 MT
•	Encroachments on footpaths, in parks	No encroachments in park and footpath
•	How many slums have been identified and whether there are provided with sanitation facilities?	No slums
•	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 INITIATIVES	.1
.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 association registered with municipal body/	-

¹ Details of schemes can be provided on a separate sheet

² Advance Locality Management

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: 21/01/2005

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.