Name of City/Town: Vi		Virar	District:	Thane	
Name o	of Municipal Body:	Virar Municipal Council	Division	: Konkan	
Address	s:		State:		
Telepho	one:		Fax:		
Email:			Website	:	
•	DEMOGRAPHY				
.1	Name of Officer In-C	Charge	Mr. Ashok Kum	nar , Rankhamb	
.2	Area of Municipal Co (Please provide map municipal body) (km	showing legal limits of	19.58		
.3	No. of wards / zones	3	13 wards		
.4	Total population (as	per 1991 census)	57,600		
.5	Total population (as	per 2001 census)	1,18,945		
.6	Population				
•	Urban				
•	Slums & urban poor		10,700		
.1	Floating population		50,000		
.2	Total no. of househo	old	Estimate not gi	ven	
.3	Average maximum to	emperature (°C)	-		
.4	Average minimum te	emperature (°C)	-		
.5	Average yearly maxi	mum rainfall (mm)	-		
.6	Average maximum h	numidity	-		
.7	Average minimum h	umidity	-		
.8	Average depth of wa	ter table	-		
.9	Altitude (<i>i.e.</i> mean se	ea level)	-		

PROFORMA FOR SUBMITTING INFORMATION ON SOLID WASTE MANAGEMENT

GENERATION OF MUNICIPAL SOLID WASTE •

.1 Total MSW generation (MT/day) 50 .2 MSW generation (gms/capita/day) per person Not reported .3 Of the total MSW generated 20 Quantity of domestic MSW (MT/day) ٠ 10 Quantity of commercial MSW (MT/day) • Quantity of industrial (non-toxic and non-10 ٠ hazardous) waste (MT/day) 8 Quantity of waste from markets (MT/day) ٠ 2 • Quantity of waste from hotels and restaurants (MT/day) .1 Composition of MSW (Attach separate sheet) Physical characteristics ٠ Biodegradable (%) -0 Paper (%) 0 Plastic (%) 0 Glass (%) 0 Metal (%) 0 Inert, ash, debris (%) 0 Rags (%) 0 Stone (%) 0 Rubber / Tyre (%) 0 Coconut shell (%) 0 Chemical characteristics 0 Carbon (%) _ Nitrogen (%) 0 Phosphorous as P₂O₅ (%) 0 Potassium as K₂O (%) 0 C/N ratio 0 Calorific value (kCal/kg) 0 Density of MSW (kg/m³) 0 Moisture content (%) 0

Analysis has not been carried out

Analysis has not been carried out

SWEEPING

		1
.1	Total length of roads (with or without footpath) (km)	39.97
•	Total length of cement-concrete roads (km)	11.07
•	Total length of asphalted roads (km)	25.45
•	Total length of Kutchha roads (km)	3.45
.1	Total no. of sweepers employed	58
•	Departmental	-
•	Contracted	-
.1	Working hours of sweepers	-
.2	Norms of sweeping (<i>e.g.</i> 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	Daily weeping
.4	Sweeping waste is put in a	Information has not given
.5	Frequency of sweeping	-
.6	Total no. of wheel barrows provided	
.7	Total no. of containerised handcarts provided	
.8	Total capacity of wheel barrow (kg)	25 in no of size : 36"x 14"x16" of 50 kgs and 48'x 16"x18" of 75 kgs
.9	No. of containers and its capacity in kg	-
.10	Type of broom provided	Long handle brooms 65, brooms –100
.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 TRANSPORTAT	ION
.1	Area covered for collection of MSW	19.58
.2	No. of households covered	100%
.3	No. of households covered under door-to-door collection (bell ringing)	600 societies, 7500 houses
.4	Is the collection carried out by municipal authority or private contractor or NGO?	Departmentally & private agency
.5	Is the segregation is carried out at source?	Yes waste collected in segregated form
	If no, what steps have been taken?	-
.6	Total quantity collected (MT/day)	50

.7	MSW collected in mixed form (MT/day)	-
.8	MSW collected in segregated form (MT/day)	-
.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>i.e.</i> 7 days a year?	-
	If no, give details	-
.13	Total number, type, size, and capacity of storage bins / container / trailers provided	The council is in the process of eliminating open community bins. Collection bins are placed only at the entrance of big buildings, wherein the waste is stored in segregated manner as wet, dry & recyclables.
.14	Whether the bins are open or closed?	-
.15	Whether all bins are attended/cleaned daily? (<i>i.e.</i> 7 days a week and 365 days a year)	Yes
	If no, mention details	-
.16	Whether the lifting of waste from the bins is manual or mechanical?	Manual

.17 Vehicle de	etails		
Dumper placer (with 4.5 m ³ / 8 m ³ 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)			

Type of	No. of	No. of	Capacity	No. of	Distance	Quantity	Quantity	No. of
vehicle	vehicles used	shifts	(MT)	trips/ shift	travelled / shift	of MSW carried / shift (MT)	of MSW carried out / day (MT)	workers / vehicle
Compactor (mobile)	-	-	-	-	-	-	-	-
Dumper placer (with 2.5 m ³ containers)	3	-	5	6	12	-	24	
Dumper placer (with 4.5 m ³ / 7 m ³ containers)	-	-	-	-	-	-	-	-
Open truck	-	-	-	-	-	-	-	-
Open truck with tipping	2	-	4	8	16	-	24	
Tractor- trailer with tipping	1	-	3	1	2	-	2	
Tractor- trailer without tipping	-	-	-	-	-	-	-	-
Auto rickshaw with/ without tipping	-	-	-	-	-	-	-	-
Tricycle with/without tipping	-	-	-	-	-	-	-	-
Any other type	-	-	-	-	-	-	-	-
Total								
	e vehicles are or red with tempo			hey Yes/î	No			
• COL	LECTION SY	STEM						
.1 Appr	oximate MSW	collected (N	<i>И</i> Т)	No in	formation			
0	Household (ι							

_	0	Slums	
	0	Street sweeping	
	0	Shops & commercial establishments	-
	0	Markets	-
	0	Hotels, restaurants, eating housesGardens, parks, fairs	
	0	Slaughter houses	
	0	Building sites (debris, earth, etc.)	
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	-
	No.	of hotels, restaurants, eating houses	-
	0	Grade / class I	-
	0	Grade / class II	-
	0	Grade / class III	-
	0	No. of star hotels	-
	Gue	sthouses	-
	Mar	riage halls	
	Hos	tels	-
	Cine	ema halls	
	The	atres	-
	Stab	les and no. of animals	-
0		pitals/ clinics/ nursing homes Il no. of beds	-
1		ks, gardens, recreation places like lakes, sement parks	-
12	Build	ding sites (under construction)	-
3	Slau	ighter houses	-

•		PROCESSING AND DISPOSAL OF MSW	
.1		Total quantity of MSW processed (MT/day)	-
.2		Technology / technologies adopted	-
c	0	Composting (MT/day)	-
c	0	Vermiculture (MT/day)	Prosseing 5 MT by vermiculture
c	0	Pelletisation (MT/day)	-
c	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	Proposed a sanitary landfill

•	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	One
	Whether municipality legally owns them?	-
•	Area of each dumping ground/ landfill site	11 hectare
•	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	-
	• 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	-
	lf no, what steps have been taken (provide details)	-
.1	Whether the following facilities are provided	-
•	Weighbridge	No
•	Fencing	No
•	Approach roads/ internal roads	-
•	Lighting facility	No
•	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	Not available
	•	Leachate collection system	Provision not made
•		INSTITUTIONAL ARRANGEMENTS	
.1		SWM services provided in the city/town by	Health Department
.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/ labourers/ Mukadam/ Jathedars/ Daffedars, <i>etc</i> .	220 workers
.4		Organisational structure	-
•		PRIVATISATION	
.1		Whether any of the following service is privatised?	
	•	Sweeping	Yes
	•	Door-to-door collection	Yes
	•	Community collection	Yes
	•	Transportation	Yes
	•	Processing of MAW	-
	•	Sanitary landfilling	-
		If yes, provide details	In Virar Municipal council sweeping, collection & transfer is privatised. Expendicular per month is Rs. 5,02,451 and per year is 61,48,900
		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)	63,66,100

•	Total cost of SWM services under various heads	63,66,100
•	Establishment including salaries, uniforms, etc	-
•	Tools, equipment, and consumables including disinfectant	-
•	Operation and maintenance of garbage vehicles including fuel, oil, spare parts, tyres, batteries, <i>etc</i>	-
•	Hiring charges for contractors' vehicle & machinery, bulldozers, JCBs, <i>etc</i>	-
•	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, <i>etc.</i> (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 (Hospital Medical Waste)	At present no special arrangement for Bio Medical waste
•	Diary related activities	Nil
•	Slaughter house and unauthorised slaughtering	Nil
•	Construction, demolition, debris and silt	Nil
•	Encroachments on footpaths, in parks	-
•	How many slums have been identified and whether there are provided with sanitation facilities?	-
•	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 INITIATIVE	S 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)		
٠		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: 24-01-05		Signature of the Municipal Commissioner / The Health Officer/ The Chief Engineer (SWM)
				Stamp
	Note	 Please provide small note on the geographic 	al and h	istorical background of the city tourist places

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*.