



**Program Support Unit  
Sindh Devolved Social Services Program  
Finance Department, Government of Sindh, Karachi**



**Annexure III**

**QUESTIONNAIRE ON SOLID WASTE MANAGEMENT OF TOWNS/TALUKAs**

*Prepared by: Dr.Mir Nusrat (Program Officer WSS) & Engineer Muhammad Khalid (Consultant on Environment) SDSSP, July 2006*

**General:**

**Name of Town/Taluka (TMA): Hala**

Q.1.What is the population of TMA according to the last census?

Population 161980      Year of Census      1998

Q.2 What is the total area of TMA?

Not Known      Square kilometer

Q.3 How many sanitary workers are working in TMA?

\_\_\_\_\_

Q.4 How many houses are present in TMA?

Total Number of houses \_\_\_\_\_

Houses	Flats

Q.5 Do you hire any contractor for solid waste management in TMA?

Yes

No

If yes, please specify the following and answer question no 6 & 7; if No, please proceed to Q.8:

a. Is the contractor hired for primary collection (door to door collection of waste?)

Yes

No



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b. Is contractor hired for secondary collection (to lift waste from dust bins to disposal area?)

Yes

No

Q.6 What is the period of the contract?

\_\_\_\_\_

Q.7 What is the total amount given per month to the contractor?

\_\_\_\_\_

**Solid Waste Management in your TMA:**

Q.8 What is the total daily generation of waste?

\_\_\_\_\_ 70 \_\_\_\_\_ Tons

Q.9 How much waste is transported daily to the dumping site?

\_\_\_\_\_ 30 \_\_\_\_\_ Tons

Q. 10 Do you have any disposal/dumping site?

Yes

No

Q. 11 Please name and mention the location of the dumping site?

\_\_\_\_\_

Q.12 How far is the dumping site from your TMA?

a. Distance from center of TMA \_\_\_\_\_ Km



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b. Travel Time of solid waste vehicle from center of TMA to final dumping site

\_\_\_\_\_ Minutes

Q.13 What is the condition of your dumping site

- |                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
|                                     | Yes                      | No                       |
| a. Is it a declared by Government?  | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     | Yes                      | No                       |
| b. Is the site developed?           | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     | Yes                      | No                       |
| c. Do you need more disposal sites? | <input type="checkbox"/> | <input type="checkbox"/> |

If Yes: Please suggest the location for the new site

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Q.14 Is the location of your dumping site suitable for the TMA?

- |                          |                          |
|--------------------------|--------------------------|
| Yes                      | No                       |
| <input type="checkbox"/> | <input type="checkbox"/> |

If no: Please give reasons \_\_\_\_\_

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Q.15 Do you have any garbage transfer station? (Garbage transfer station means where the garbage is primarily stored and then transported to landfill/dumping site)

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>

If yes, please specify name and location \_\_\_\_\_

Q.16 Do you have any computerized weighbridge where you can weigh the solid waste per truck in tones?

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>

If yes please specify the name and location \_\_\_\_\_

Q.17 Mechanism of garbage collection system in your TMA

	Yes	No
a. Is there Door to door collection system from houses?	<input type="checkbox"/>	<input type="checkbox"/>

If Yes, Please Specify is there is:

	Yes	No
I. Manual collection of waste by sanitary workers by using Wheel barrows to the communal bins (dustbins)	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No
II. Door to door collection by animal carts to communal bins	<input type="checkbox"/>	<input type="checkbox"/>

	Yes	No
III. Door to door collection by small pickups to communal bins	<input type="checkbox"/>	<input type="checkbox"/>

b. Are there any other collection method from houses please specify.

People usually drop waste at some undesignated collection points, municipal authorities collects waste from their



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Q.18 How many communal bins (dust bins) are present in TMA for the collection of waste?

Please specify the type and number of bins as given in the tables below

**Cement Concrete Bins**

S.NO	Size (LxHxW)	Capacity (Tones)	Total Number	Condition Satisfactory/unsatisfactory

Note: L is the length of bin in feet  
H is the height of bin in feet  
W is the width of bin in feet

**Demountable (Large Moveable Iron Bins)**

S.NO	Size (LxHxW)	Capacity (Tones)	Total Number	Condition (Satisfactory/unsatisfactory)

Note: L is the length of bin in feet  
H is the height of bin in feet  
W is the width of bin in feet

**Demountable (Small Moveable Iron Bins)**

S.NO	Size (LxHxW)	Capacity (Tones)	Total Number	Condition (Satisfactory/unsatisfactory)

Note: L is the length of bin in feet  
H is the height of bin in feet  
W is the width of bin in feet



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Q 19. How many communal bins (dustbins) are attended and lifted by the following mechanism?

- a. Number of communal bins (dustbins) cleared daily by animal carts \_\_\_\_\_
- b. Number of communal bins cleared daily by tractor-trolley \_\_\_\_\_
- c. Number of communal bins cleared daily by other vehicles \_\_\_\_\_
- d. Number of communal bins cleared daily by mechanically (skip loader, loaders etc) \_\_\_\_\_
- e. Number of communal bins left unattended daily \_\_\_\_\_

Q.20 How many hauling vehicles (which lift and transport garbage to dumping site) does your TMA have and what type of hauling vehicles are present in TMA for lifting Waste?

Please specify the type, model and conditions of vehicles as given in the table below

**Dumpers**

S.NO	Company (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance

**Loaders**

S.NO	Company (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance



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**Skip Loaders (Multi-loaders) which carries moveable bins**

S.NO	Company (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance

**Roll on and Roll off container loaders**

S.NO	Company (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance

**Container Trucks**

S.NO	Company (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance

**Trucks**

S.NO	Company (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance



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**Tractor-trolley**

S.NO	Company (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance
1	1980		3.5	3	Very old vehicle needs repair work
2	2005		3.5	3	In good condition

**Other Vehicles**

S.NO	Vehicle Name (Model)	Year of purchase	Capacity (Tones)	Number of trips per day to dumping site	Please mention the condition/requirement for the maintenance

**TMA's Machinery and Equipment Details**

S.NO	Machinery name	Year of purchase	Company (Model)	Capacity (Tones)	Purpose/ Operation	Please mention the condition/requirement for the maintenance
	<b>NO MACHINERY AVAILABLE</b>					



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**Other Machinery**

S.NO	Machinery name	Year of purchase	Company (Model)	Capacity (Tones)	Purpose/ Operation	Please mention the condition/requirement for the maintenance

Q.21 What is the composition of your waste? (Optional)

- a) Percentage of organic material \_\_\_\_\_
- b) Percentage of inorganic material \_\_\_\_\_
- c) Percentage of Paper & Cardboards \_\_\_\_\_
- d) Percentage of other waste \_\_\_\_\_

**Human resources engaged in Solid Waste Management:**

Q.22 What are the weaknesses of your Solid Waste Management System?

	Yes	No
Is the Staff Sufficient?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If no then please give reasons

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Q.23 Do you have Civil/Mechanical/Environmental Engineers and Diploma Holders in your Town/Taluka? If yes, then please fill the table below:

S.NO	Name	Qualification	Experience (years)
1	Atta Mohammad	B.E (Civil Engg)	20 years
2	Abid Ansari	Diploma	13
3	Rashid Qadir	Diploma	10
4	Suhail Ahmed	B. Tech	13
5	Qamar Zaman	B. Tech	10
6			
7			

Q.24 Total Staff working in Sanitation department

Administration	Inspector	Sub-Inspector	Mukadam/Jamadar	Motor Collis

Collection Vehicles Driver	Sweepers	Workshop Staff (Vehicles)		
		Engineers + Graduate +Diploma	Mechanics	Total staff for Maintenance

Total Sanitary Workers	Male	Female

Actual Sanitary Workers Strength	Sanctioned Strength	Working Strength



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Working hours of sanitary workers	Morning	Evening

Weekly holidays of sanitation staff	Friday	Sunday

Q.25 How do you attend emergencies during the holidays (Bakra-Eid & others)? Is there any special arrangement

\_\_\_\_\_

\_\_\_\_\_

Q.26 Do you want to change duty hours and schedule of holidays for sanitation staff?

Yes                       No

If yes please give suggestions \_\_\_\_\_

\_\_\_\_\_

Q.27 What is the arrangement for removing the backlog (backlog means the garbage which remains unattended) in your TMA?

No such arrangements

Q.28 Do you have any workshop facility in your Town/Taluka?

No

\_\_\_\_\_

\_\_\_\_\_



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**Financial:**

Q.29 What is the total expenditures of TMA for the year 2005/2006?

\_\_\_\_\_

Q.30 What is the total expenditures on solid waste management?

\_\_\_\_\_

Q.31 What is the amount of waste management budget for salaries, construction and buying of new dustbins, maintenance and others?

Please Specify amount in Rupees:

Total solid waste management budget	Total Salaries to solid waste workers	Total salaries to solid waste supervisors	Budget for construction & buying of dustbins	Budget for maintenance of vehicles & Equipments	Fueling	Purchase

Q.32 Is your Solid Waste Management Budget sufficient?

Yes

No

No: Please specify the amount needed for Solid Waste Management

\_\_\_\_\_

**Improvement Possibilities**



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Q.33 What should be done to improve the solid waste management system? also specify the machinery and equipments required for the improvement of your Solid Waste Management System?

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