

Workshop Report

Developing a Roadmap for Awareness Generation & Segregation of Waste at Household level for Kochi



April 21, 2010

Kerala Chamber of Commerce & Industry Hall
Kochi

Workshop Report

Workshop for developing a Roadmap for Awareness Generation & Segregation of Waste at Household level for Kochi

A. Introduction

In order to develop a Roadmap for Awareness Generation and Segregation of Waste at Household Level for Kochi, a workshop was held in the Kerala Chamber of Commerce & Industry Hall, Kochi on April 21, 2010. The workshop was inaugurated by Mrs. Marcy Williams, Mayor, Corporation of Cochin and the welcome address was given by Dr. Regina Dube, Senior Advisor & Head, Sustainable Urban Habitats, GTZ-ASEM. Given below are the objectives of the workshop, target group and expected outcome at the end of the program.

Objectives

To understand the current system of door-to-door collection of municipal solid waste in Kochi and prepare a plan for interventions from all partners for improvement of current practices of segregation of waste at household level.

Target Group

Officials from the Corporation of Cochin, Officials from Kutumbshree; Officials from JNNURM-PIU and PMU, KSUDP; Consultants, Kochi Environmental Cell, GTZ-ASEM

Expected Outcome

Operational Plan prepared for CoC and GTZ-ASEM interventions covering the following aspects:

1. Door-to-door collection of segregated waste
2. Transportation of segregated waste
3. Awareness generation
4. Complaint redressal system

Agenda for the workshop is included as Annexure I and List of Participants as Annexure II. The points that came up for discussion during the meeting and the internal preparation/ way forward for segregation of waste at household level are given below:

B. Discussion on Current System for Collection and Transportation of Solid Waste in Kochi area

1. System of waste collection:

The CDP area for Kochi comprises of the Corporation of Cochin, 2 Municipalities and 13 panchayats.

System in Kochi:

Kochi is a bin-free city. In Kochi, the municipal solid waste is collected at the household level in bins in segregated form at the household level by the waste collector. This collection of waste from households is carried out by workers belonging to different groups like self help groups under the banner of Kutumbshree (self-help groups Govt. of Kerala program), Resident Welfare Associations and Kerala Builders Forum (KBF), Rotary Club, NGOs, etc. Kutumbshree covers 15 of 73 wards of the city with the help of its 200 workers. The

remaining 53 wards are served by contracted workers of RWA's/ KBF/ Rotary Club/ NGOs, etc.

The Corporation of Cochin has provided 2 colour bins – green and white to all households. Segregated waste is collected by workers in two separate dustbins and brought to the secondary collection points.

The primary collection vehicle is either an auto rickshaw or a cycle rickshaws which belongs to the Corporation and has been given to the various groups for collection of waste. On the vehicle 4 bins are provided in which pre-segregated waste at the household level is collected. Some of the workers also collect wet waste in the cart and dry waste in bags.

After primary collection the waste is brought to the secondary collection points where the garbage is further segregated on the floor, before it is transferred to the Corporation truck. These transfer points have been pre-determined by the Corporation and the time when the vehicle reaches this spot is also defined. In some places the pre-segregated waste from households is directly transferred to the trucks from the large bins.

The level of segregation of waste varies throughout the city – it is best in the Central City while it is worst in Matanjari, where there are slums and the door-to-door collection is not provided by the residents. This difference is also visible between the western and eastern parts of the city – the western being visibly cleaner.

The maintenance of these primary collection vehicles is the responsibility of the various collector groups and the money for the same comes from the user charges.

CoC has provided one vehicle to the Hotels Association for collecting food waste from hotels and from canteens of hospitals. The waste which is not collected from small hotels and commercial establishments by the Hotels Association is collected by either Kutumbshree/ RWA workers/ etc. serving that ward. The large hotels have their own systems and mostly produce biogas from their kitchen waste.

The Corporation takes care of the main road sweeping and drain cleaning for all drains across the city. The collection and transportation of this waste is also done by the CoC. However, the by-lanes are not swept by the Corporation.

Slums within Kochi:

There are a total of 270 identified slums within Kochi and they have been mapped by WAPCOS. Each slum comprises of 100-150 households (approximately 500-1,000 persons). These slums are currently not served by the door-to-door collectors and hence pose a problem in waste collection for CoC.

System in Municipalities and Panchayats in the CDP area:

Kutumbshree is also active in the 2 Municipalities under the CDP area and door-to-door collection of waste is being done there in some wards. The Panchayats are not served by Kutumbshree.

2. Roles, Responsibilities and Reporting

The Corporation Health Officer (CHO) is in-charge of the solid waste management wing in the Corporation. He has under him 2 Health Supervisors (HS); followed by 2 First Grade Health Inspectors (FGHI); 22 Health Inspectors (HI) and 73 Junior Health Inspectors (JHI).

Each ward is assigned to one Junior Health Inspector (there are 73 JHI for 73 wards) while each Health Inspector is in-charge of one circle (there are 22 HI for 22 circles). The JHI's are responsible for the day-to-day monitoring of each ward and are vested with penal powers like transferring of workers from one area to another.

Kutumbshree is managed by 2 Project Officers – one for east zone and the other for west zone within CoC area. There is direct reporting of the 200 workers from Kutumbshree to these project officers. There is also direct reporting of the JHI to the Project Officer, so any anomalies at the ward level in the 15 wards served by Kutumbshree can be mitigated at this level.

For Kutumbshree served areas, there are approximately 13-14 workers per ward and the user charges collected by these workers is deposited in an individual account for each ward. These micro accounts are operated and maintained by each self-help group and are used for salary disbursement, maintenance of vehicles, taking loans for groups activities, etc.

For the RWA/ Rotary Club/ NGOs – the JHI reports any anomaly/ problem in the collection system to the President of the group in-charge, since the workers are contracted by the group.

At the ward level there is a Sanitation Committee in each ward which is headed by the Councillor of that ward and Jr. Health Inspector, Kutumbshree self-help-groups, RWAs, Rotary Clubs, NGOs who are active in solid waste management in the ward are its members. Refer to fig 1 for organisational structure of ward-level solid waste management.

3. Complaint Redressal System/ Monitoring

The complaints flow from the households to the JIH or to the circle office toll free number and the complaints have to be attended within 24 hours. The next level is to the Health Inspector and redressal has to be within 48hrs.

But usually, all complaints reach the Secretary or Mayor directly or the Ward Councillors. The system has been defined but very few persons use the system.

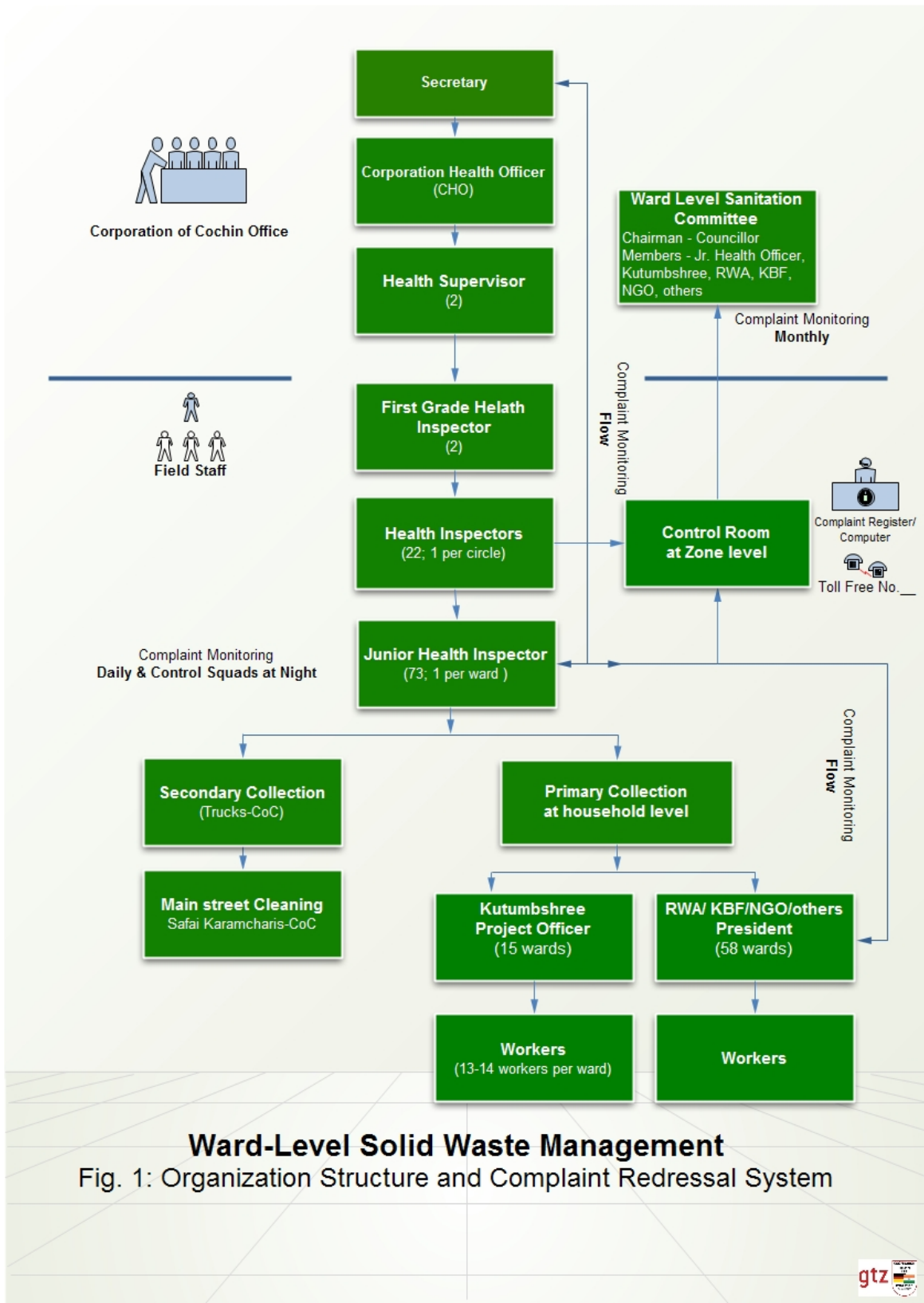
Complaint monitoring is done on a regular basis and all complaints are attended to. The typical complaints are usually drainage blockage or littering. Refer to fig 1 for complaint redressal system of ward-level solid waste management.

The Corporation maintains a Control Squad and the corporation staff patrols around the city in groups of 4 in the night. This monitoring is done in shifts and a spot fine ranging from Rs.250 to 10,000 is charged, depending on the quantity of waste. This has been made possible because the bye-law for penalty has been amended. This is applicable only in CoC area and is based on government ratification. This amendment has been endorsed by the local self govt. department and put into action by the CoC.

4. Charges for collection of waste

There is a solid waste charge which is ___% of the property tax and it is collected along with the property tax.

There are user charges which are collected @Rs. 30/household and @Rs.50/commercial establishment. These user charges are collected directly by the door-to-door waste collectors and are used for funding the salary and insurance charges of the workers and also for maintenance and diesel charges of the vehicles used for collection of waste.



C. Internal Preparation/ Road map for Segregation of Waste at Household level for Kochi

S.No.	Steps	Responsibility
1.	Submission for Approval of Council	CoC
2.	Awareness for segregation <ul style="list-style-type: none"> • Media, TV, newspaper, • Follow-up flyers (Malyalam and English) – old flyers that were circulated by the CoC need to be collected • CoC is looking for variety in flyers and other media 	GTZ CoC
3.	City Award for Best Segregation at ward level <ul style="list-style-type: none"> • Rating of the wards for best segregation in the city – extent of segregation to be judged, award should be according to zones – east and west since both zones have different characteristics, the award can be announced on June 5 • Copy of the document and criteria that was submitted for the award for solid waste management, as a basis for ward level awards which Kochi received recently • Ward level data is being generated in the city for waste collection. Data will need to be analysed for improvements at ward level. 	GTZ JNNURM PIU & GTZ Env. Cell
4.	School awareness program running in 6 Municipal Schools – campaign has been started, school marshals, guest lectures. The program can be further refined - add on to the School Program	GTZ
5.	Primary collection and placing of bins in slums for collection needs to be initiated	GTZ, CoC
6.	Develop a financially sustainable model for SWM for low income areas	GTZ, CoC
7.	Need for exploring what KBF does with its rejects from the compost unit	GTZ Env. Cell
8.	Complaint redressal system - Nature of complaints to be analyzed for improvement. Plan prepared for improvement.	GTZ & CoC
9.	Capacity building <ul style="list-style-type: none"> • Health related issues and occupational safety training is required for all workers • Kutumbshree, RWA, NGOs and any other players in segregation of waste • Activities to be worked out for slum areas and any other missing links 	GTZ

Photos from the workshop





Agenda

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Venue: Kerala Chamber of Commerce & Industry Hall, Kochi
Date: 21-4-2010

Time	Agenda
10:00 am – 10:30 am	Welcome to the participants by Dr. Regina Dube Welcome by Mayor, Mrs Marcy Williams, CoC Introduction of participants
10:30 am – 11:15 am	Presentation on current best practices in India in segregation of waste – Mr. K.P. Pravinjith Discussion
11:15 am	Tea on the table
11:15 am - 1:00 pm	Discussion on the current system of Solid waste management in Kochi: <ul style="list-style-type: none"> • Door-to-door collection of waste • Methodology for transportation of waste • Complaint redressal system
1:00 pm – 2:00 pm	Lunch
2:00 pm – 3:30 pm	Discussion Need for segregation of waste and awareness generation Steps to be adopted
3:30 pm	Tea on the table
3:30 pm – 4:30 pm	Discussion continued
4:30 pm – 5:00 pm	Road map for awareness generation and segregation of waste for CoC

REGISTRATION SHEET

**Workshop for developing a Roadmap
for Awareness Generation & Segregation of Waste at
Household level**

**Date: April 21, 2010
Venue: Kerala Chamber of Commerce and
Industry Hall, Kochi**

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