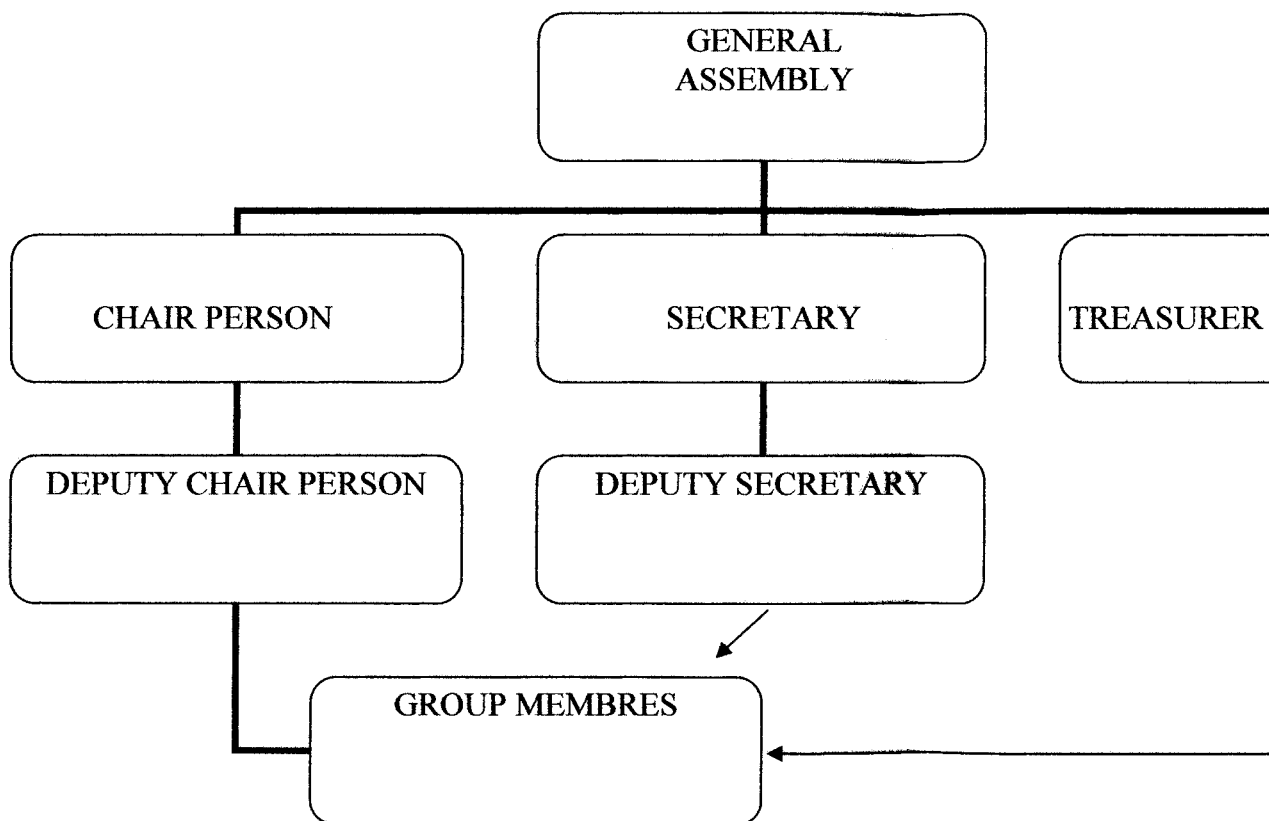


## APPENDICES

### Appendix I: **Organizational structure of MWG organization**

#### **MAZINGIRA WOMEN GROUP ORGANIZATIONAL CHART**



## Appendix ii: **Project Budget**

### **Inputs**

In order to accomplish the set objectives, the following inputs are needed

- Human resource: group members who are instrumental in the running of the day to day activities, extension workers such as the Ward Community Development Officer; Community leaders like the Mtaa Chairpersons, Ward Executive Officer
- Financial resources is also a requisite towards smooth implementation of the project – the project needs 1,410,000/=
- Stationery which will be used during the training of the group members.
- Transport to ferry group members and extension workers during the period of implementation.

The activities costed 1,410,000/=. The distribution was as follows:

#### **Objective one Tshs. 590,000/=**

|                        |                                   |                       |
|------------------------|-----------------------------------|-----------------------|
| Lunch allowance        | 31 participants x 3000 x 4 days = | 372,000               |
| Stationery             | lumpsum =                         | 150,000               |
| Venue and refreshments |                                   | <u>68,000</u>         |
|                        | Total                             | <u><b>590,000</b></u> |

**Objective two Tshs 820,000/=**

Par Diem for the trainers from Iringa 2 x 30,000 x 7 days = 420,000

Transport and lunch allowance 20 x 2000 x 5 days = 200,000

Stationery (lump sum) = 100,000

Training materials = 100,000

Total = **820,000**

**Grand Total = 1,149,000**

Appendix iii: **Interview guide for *mitaa* leaders**

1. Name.....  
Age.....Sex.....Education.....
2. What methods are being used to mobilize people on the issues of solid waste
3. Do you conduct meetings in your mtaa to talk about solid waste management issues?  
a) Yes ( )  
b) No ( )
4. Are there any private sector (NGO, CBO) engaged in solid waste management in your mtaa?  
a) Yes ( )  
b) No ( )
5. If yes, how many? .....
6. How do you find the relationship between the service provider and the community?  
a) Very good ( )  
b) Good ( )  
c) Satisfactory ( )  
d) Poor ( )
7. Do these CBOs provide regular and required services in your area?
8. Are the services adequate?  
a) Yes ( )  
b) No ( )

9. If no, what do you think should be done to improve the services of the CBO on solid waste management?.....

.....

.....

10. What do you propose on the issue of community participation in solid waste management?

.....

.....

.....

.....

.....

.....

Appendix iv: **Interview guide for Community Based Organization**

- 1 When did the Community-based organization start?
- 2 What are your objectives as a CBO/NGO
- 3 When did your organization start dealing with solid waste management?
- 4 Was your CBO formed as a response to the waste problem or did it just integrate waste management into its activities?
- 5 How many members do you have today?
- 6 Do you think your relationship with the community (the fact that you know people and people know you is important in your success of running the business?
- 7 How do you get information on contracts on waste collection from the municipality?.....
- 8 How are your services provided?
  - a) Free of charge ( )
  - b) Charge a collection fee ( )
- 9 How many people do you employ in total for waste collection?.....
- 10 Do you work together with the Municipal Council in solid waste management?
  - a) Yes ( )
  - b) No ( )

11 If yes, what activities do you perform with the council.....

.....

12 What assistance if any do you get from the Council?.....

.....

.....

13 How would you consider your relationship with the Council?

a) Very good ( )

b) Good ( )

c) Satisfactory ( )

d) Poor ( )

14 Apart from your organization, are there any other CBOs that are engaged in solid waste management in the ward

a) Yes ( )

b) No ( )

If yes, name them .....

.....

.....

.....

15 How would you consider your relationship with the other CBOs

a) Very good ( )

b) Good ( )

c) Satisfactory ( )

d) Poor ( )

16 You started on a voluntary basis. Today does the income from the waste permit you to earn a living from it?

17 How often do the waste collectors go from house to house to collect waste?

18 How do you collect and transport the garbage

19 Where do you dispose of the collected garbage?

20 Who supervises your activities? Do you have regular contact with the municipality?

21 Who collects the waste fees?

22 Who is in charge of awareness-raising in this ward and how often is it done?

23 How many tons of waste is generated in your area of operation daily?

24 You have worked on waste in this community for 6 years. How would you qualify the level of the people's knowledge on waste?

25 What percentage of people pay waste management fees to you and how has this percentage changed over the years?

26 How would you rate the participation of the communities in solid waste management?

a) Very good ( )

b) Good ( )

c) Satisfactory ( ) d) Poor ( )



Appendix v: **Questionnaire for commercial traders**

Name..... Age.....

Sex..... Education.....

1. How long have you been doing your business in this area?.....  
.....
2. Where do you dispose of the garbage that you generate
3. Are there any private sector (CBO, NGO) that are engaged in Solid waste management in this area
  - a) Yes ( )
  - b) No ( )
4. If yes how many?
5. Do you pay for the services
  - a) Yes ( )
  - b) No ( )
6. How would you rate the relationship between you and the service provider?
  - a) Very good ( )
  - b) Good ( )
  - c) Satisfactory ( )
  - d) Poor ( )
7. How many days in a week do they collect the garbage?

8. How would you rate their services?

a) Very good ( )

b) Good ( )

c) Satisfactory ( )

d) Poor ( )

9. How do you find the situation of solid waste as compared to when there were no private operators engaged in solid waste

management?.....

.....

Appendix vi    **Questionnaire for Ward Executive Officer**

1. What methods are being used to mobilize people on the issue of solid waste?.....  
.....  
.....
2. Do you conduct meetings in your ward to talk about solid waste management issues?
3. Do you have any private companies or groups that are engaged in solid waste management?
  - a) Yes            (    )
  - b) No            (    )If yes, name them .....  
.....  
.....
4. What are the ward's strategies in the improvement of solid waste management?.....  
.....  
.....
5. What are the opportunities and constraints facing the ward in the whole issue of solid waste management?.....  
.....

.....  
.....

6. Do you think there is a need for improvement in the management of solid waste?

a) Yes ( )

a) No ( )

7. If yes, what changes do you propose.....

.....  
.....  
.....  
.....

Appendix vii: **Questionnaire for household**

1. Name of respondent.....
2. Age of respondent.....
3. Sex.....Female/Male
4. Occupation.....
5. How much money do you get in a month.....
  - a) Between 10,000/= - 30,000/=
  - b) Between 31,000/= - 50,000/=
  - c) Between 51,000/= - 70,000/=
  - d) 71,000/= and above
6. Marital status
  - a) Single ( )
  - b) Married ( )
  - c) Widowed ( )
7. Have you ever attended any meeting of awareness creation on the problem of solid waste in your area?
  - a) Yes ( )
  - b) No ( )
8. If yes, how many times in a year?
  - a) Once ( )
  - b) Twice ( )

c) Thrice ( )

d) Non ( )

9. Who convened the meeting(s)

a) NGO/CBO ( )

b) Municipal Council ( )

c) Others ( )

10. Have the meetings helped you in solving the problem of solid waste?

a) Yes ( )

b) No ( )

If yes, how?.....

.....

11. Where do you dump your waste?

a) Collection points ( )

b) At home ( )

c) Elsewhere ( )

12. Are the collection points for waste near your home?

a. Yes ( )

b. No ( )

If no, what is the distance from your home to the collection points?.....

.....

13. Who do you think is responsible for collecting solid waste?

- a. Municipal Council ( )
- b. Individuals ( )
- c. Private sector ( )

14. Do you know any NGO/CBO involved in solid waste management in your area?

- a) Yes ( )
- b) No ( )

If yes name them.....

.....

15. Do you think there is any need for the CBOs /NGO to be engaged in management of solid waste?

16. Do you think solid waste is a major problem in your area?

- a. Yes ( )
- b. No ( )

If yes, explain.....

.....

.....

17. What has caused the problem of solid waste management in your area?.....

.....

18. What do you think would help you in the storage, collection and disposal of solid waste?

19. Do you think there is a relationship between participation and sustainability?

# AN ASSESSMENT OF THE CONTRIBUTION OF CBO's TOWARDS SUSTAINABLE SOLID WASTE MANAGEMENT

MAJENGO WARD – DODOMA  
MUNICIPAL

MADENGE R.S      JANUARY,2007

## OUTLINE

- Introduction
- Background of the CBO
- Needs assessment
- Research questions
- Problem statement
- Justification for the survey
- Objective of the survey
- Methodology
- Findings
- Recommendations
- Implementation
- Monitoring and Evaluation

## INTRODUCTION

- Poor Solid Waste Management has been one of the major environmental problems that exist in Cities, Municipalities and District Councils in many Countries, especially developing countries like Tanzania. Experience has shown that not all generated solid waste is collected, disposed or recycled.

### Introduction cont.....

- In the recent past, most councils have resorted to privatization of the solid waste management as one of the solutions to solid waste management crisis.
- The Dodoma Municipal Council is one of the Municipalities which have contracted the solid waste collection to community based organizations (CBOs). Among which is the Mazingira Women Group.

## Background of the CBO

- The Mazingira women group comprises of 20 members of which 7 are men.
- It started its activities in 1999 on a self help basis .
- It operates in Majengo ward which has four mitaa, 660 households, an average household size of 3.9, a population of 6901 of which 3,308 – male and 3,593 – female.(2002 census)

### Vision:

- Dodoma Municipality with clean streets free from accumulation of garbage and all solid wastes.

## Background cont...

### Mission:

- To promote environmental sanitation through community participation by the year 2015.

### Objective :

To collect garbage around the streets and dispose in strategic centers ready for shipment to designated disposal areas



### Community needs assessment

- The community needs assessment was carried out in October 2006 to determine the capacity building needs for the CBO and the general public to ensure improved solid waste management in Dodoma town
- According to the group, the following are the critical issues

### Community needs assessment cont.....

- **Need for back up from the Municipal leadership to assist them during sensitization meetings**
- **Support from the Mitaa leadership in convening community meetings**
- **Resources for the operation of the project. These can be obtained through selling of recyclable materials like plastics but also by producing and selling compost manure.**

### Problem statement

- Although there is a growing emphasis on the need to privatize some of the former public services like solid waste management, the private operators need government support to enable them deliver effectively.
- During the needs assessment on improving solid waste management in Dodoma Municipality, it was found that
  - generally poor collection of solid waste generated as well as disposal of the same
  - Shortage of the needed tools, equipment and machinery
  - weak coordination mechanism,
  - limited community mobilization skills.

### Justification of the study

- One of the current development agenda in Tanzania is encouragement of private sector to champion development process and the participation of community in all aspects that affect their development.
- Mazingira Women Group has emerged as one of critical initiatives in Dodoma by the community to address one of the environmental problems. The group has been working with the community for more than five years now, and there are issues to be learned for future improvement of its own activities as well as other similar organizations.
- This study reveals the successes and failures, and the underlying reasons with the view to come up with better strategies for the future.

### Research questions

1. Is there any difference on the management of solid waste between now and when there were no private organizations?
2. Is there a relationship between private sector participation and sustainability in the management of solid waste?
3. What opportunities exist for further improvement of the involvement of communities in solid waste management?

### OBJECTIVE OF THE STUDY

- **The objective of the study was to assess the performance of the CBO in relation to solid waste management and find out what can be done in order to improve the performance of CBOs so as to bring about sustainability in the whole question of solid waste management.**

## Methodology

- Interviews using structured questionnaires were conducted to heads of households on their views on the effectiveness of the group in collecting solid waste, participation of the community in the solid waste collection and contribution to the cost in terms of payment of prescribed fees and the role of Municipal Authority in facilitating the group.
- Formal and/or informal discussion was also used to solicit views from other stakeholders.

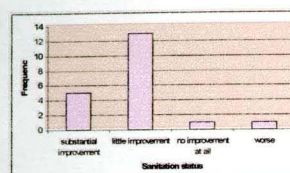
## Sample size

- A sample of 212 respondents was drawn. The distribution was such that, there were 200 heads of households and commercial traders (community members), 4 officials from CBOs, 3 staff of Dodoma Municipal Council, 1 Ward Executive Officer, 4 Mtaa chairpersons. Structured questionnaire were used for household survey, a check list for key informants, interviews and focus group discussions.

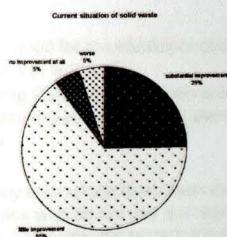
## Data analysis and presentation of findings

- Data analysis was done using statistical package for social science (SPSS) and results are presented in form of tables and graphs.

Graph 1.. Respondents response on the situation of solid waste in the ward



## The situation of solid waste in Majengo ward



## Research question 2

- Is there a relationship between private sector participation and sustainability in the management of solid waste?
- Yes, because if you involve the people then chances are that they will own the process (this is what is happening in Majengo currently)

### Relationship between private sector participation and sustainability

Need for NGO/CBO involvement in solid waste management



### Research question 3

- What opportunities exist for further improvement of the involvement of communities in solid waste management  
95.% of the respondents said that there is a need for intensive mobilization meetings so as to enhance community participation.

### CONCLUSION

- The involvement of private sector (CBO) contributes positively towards sustainable solid waste management in municipalities. However, these CBOs need to be capacitated in order to effectively render their services
- Full community participation in terms of paying collection fee is a crucial factor in bringing about sustainability in terms of enabling the CBO to meet running costs.

### Conclusion cont...

- These findings are not different from other surveys done on the same topic elsewhere

### RECOMMENDATIONS

- There is a need for the Municipal council to assist such groups in terms of
  - a) Capacitating CBOs that deal with solid waste in terms of training so as to enable them to perform effectively
  - b) Effecting by laws which have been enacted in order to task those who do not pay garbage collection fee as well as those who throw garbage in the streets

### Implementation

- **Name of project:** enhancing CBOs capacity in the collection and disposal of solid waste in Municipalities – the case of mazingira women group- Dodoma municipality
- **Objective:**
  - To train the CBO members on how to produce compost manure

20 members of the group were trained on how to produce compost manure. The training was facilitated by the Ward Community Development Officer for Majengo ward. The training was undertaken in November 2006.

## Monitoring

Monitoring had been an ongoing exercise from the initial stages of the project.

- a meeting was convened in which 7 steps were developed as the methodology to be followed in the monitoring process;
- The purpose of monitoring was reviewed to see whether monitoring will help the group members.

## Monitoring cont...

- review the objectives and activities
- Development of monitoring questions,
- Establishment of indicators
- Deciding on information gathering tools
- deciding who will do the monitoring
- Analyze and present results

## Monitoring cont...

- During implementation monitoring was done on a daily basis. The Community Development Officer, two group members and the Ward Executive Officer collected data
- The data was collected using the attendance register, Other tools used include observation

## Monitoring cont...

- The monitoring team was appointed by a community meeting which was convened earlier to decide who will be monitoring the implemented activities.

## Evaluation

- Evaluation will be carried out in May 2007 as was planned. The evaluation will focus on impact of the training in terms of how has the training assisted the members.

The project advisor discussed through a focus group discussion the benefits of participatory evaluation which are:

## Evaluation

- Helps in making better decisions
- Develop evaluation skills for group members
- Develop mutual understanding among the group members and advisor
- Provide useful information for ongoing management of the project

### Evaluation cont...

- The general meeting of the group members and key stakeholders will appoint the evaluation team. The composition of the evaluation team will include group members and outsiders. The members will not be paid because it is part of their duty.
- The results of the evaluation team will be presented to a meeting within a week after evaluation to allow timely decision.

Rehema S. Madenge,  
TAMISEMI,  
S.L.P. 1923,  
**DODOMA,**  
11/11/05.

Mwenyekiti  
Mazingira Women Group  
S.L.P. 633  
**DODOMA.**

**Yah: MAOMBI YA KUFANYA KAZI KATIKA KIKUNDI  
CHA MAZINGIRA WOMEN GROUP**

Tafadhali rejea kichwa cha habari hapo juu.

Mimi ni mwanafunzi ninayosomea Shahada ya Uzamili katika "Community Economic Development" inayotolewa na Chuo Kikuu Huria cha Tanzania kwa kushirikiana na Chuo kikuu cha Southern New Hampshire kilichopo Marekani.

Moja ya matakwa ya shahada hiyo ni kufanya kazi ya kijamii na kikundi chochote kile chenye mtazamo wa kijamii kwa kipindi cha miezi 18.

Kwa utashi wangu mwenyewe, nimependelea kufanya kazi na kikundi hiki ili tuweze kusaidiana katika kukijengea uwezo ikiwa ni katika kuinufaisha jamii tunayoihudumia.

Kwa barua hii, ninatuma maombi rasmi ya kupatiwa ridhaa ya kujumuika nanyi.  
Natanguliza shukrani za dhati,

  
Madenge, R.S.

**Mchumi**



MAZINGIRA WOMEN GROUP

S.L.B. 633

DODOMA

12.11.2005

REGHENA S. MADENGE

TAMUSEMI

S.L.B. 1923

DODOMA

KUKUBALI MAOMBI YAKO YA KUFANYA  
KATIKA KIKUNDI CHA MAZINGIRA GROUP

Tafadhali redia mchuo<sup>u</sup> habari hapo ili  
kwanza kikundi wa mazingira tumekubali  
kufanya kazi na wewe na tumepokea  
maombi yako kwa furaha kubwa sana  
tutazite kusaichiana kabila kuhijengea  
kwenye pamoja na kuionyaisha Jamii  
inayotunzunguka na ile tunayoihudi  
mia kata ya majengo.

Kwa barua hii tunajua kuwa kuuwiba  
rasmi kuwa tumekubali kuhijumua  
na wewe kabila kikundi.

Matangulizi shukurani za dhati

Kablu wa Kikundi

Hamida - mlanda

hulanda

KATIKA

MAZINGIRA WOMEN GROUP

P.O. BOX MAJENGO

DODOMA