

**APPENDICES;****APPENDIX I**

Picture for Activities performed by DITEC in 2006 – Rombo district



Tree nursery in Mokala village – Rombo District

## APPENDIX II



The Open University of Tanzania  
University

P.O. Box 23409  
Dar es Salaam, Tanzania



Southern New Hampshire

2500 North River Road  
Manchester, NH 03106

23/12/2005

Project coordinator - DITEC  
P.O.Box 2  
Rombo  
Tanzania

**Ref.Request to work with DITEC Organization on the Research of Assessment  
for Community Based Watershed Management in Kelamfuamokala ward  
Rombo District - Tanzania**

Please refer to the subject mentioned above and our previous discussion in your office.

I'm a student in the Open University of Tanzania (OUT) and the Southern New Hampshire University – USA undertaking MSc in Community Economic Development. As the condition stipulated by the Universities i am supposed to carry out a research studies as a necessary condition so as to fulfill the need of the course before completion.

With this respect i am then requesting your reputable organization to allow me to carry my research study on Assessments of Community Based Watershed Management in Kelamfuamokala ward in Rombo District – Tanzania .This study will take one and half year that is from January 1<sup>st</sup>. 2006 to June 30<sup>th</sup> 2007

I will be very happy if my request will be accepted and approved by your organization so that we can work together in the field of watershed managent

With all regards

.....  
**Adil E.Mwanga**

Open University of Tanzania (OUT) and  
Southern New Hampshire University (SNHU)

**APPENDIX III**  
**DEVELOPMENT INVESTORS THROUGH ENVIRONMENT**  
**CONSERVATION**  
**(DITEC).**

**TANZANIA.**

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Rombo  
 30/12/2005

Adil E.Mwanga  
 P.O.Box 52  
 Rombo  
 Tanzania

**Ref.Request to work with DITEC Organization on the Research of Assessment**  
**for Community Based Watershed Management in Kelamfuamokala ward**  
**Rombo District Tanzania**

Please refer to the head mentioned above

I have received your later with the same title as mentioned above and reference number .AEM/CED/GF.VOL 1/.47 of December 30<sup>th</sup> 2005.

DITEC in its Management Meeting on December 28<sup>th</sup>. 2005 has agreed and approved your request of carrying a research study on Assessment for Community Based Watershed Management in Kelamfuamokala ward – in Rombo District under the host of DITEC organization.

You have been approved to start your research effectively from January 1<sup>st</sup>. 2006 to June 30<sup>th</sup>.2007 as you had requested.

You're sincerely



.....

**Joseph Chezue**

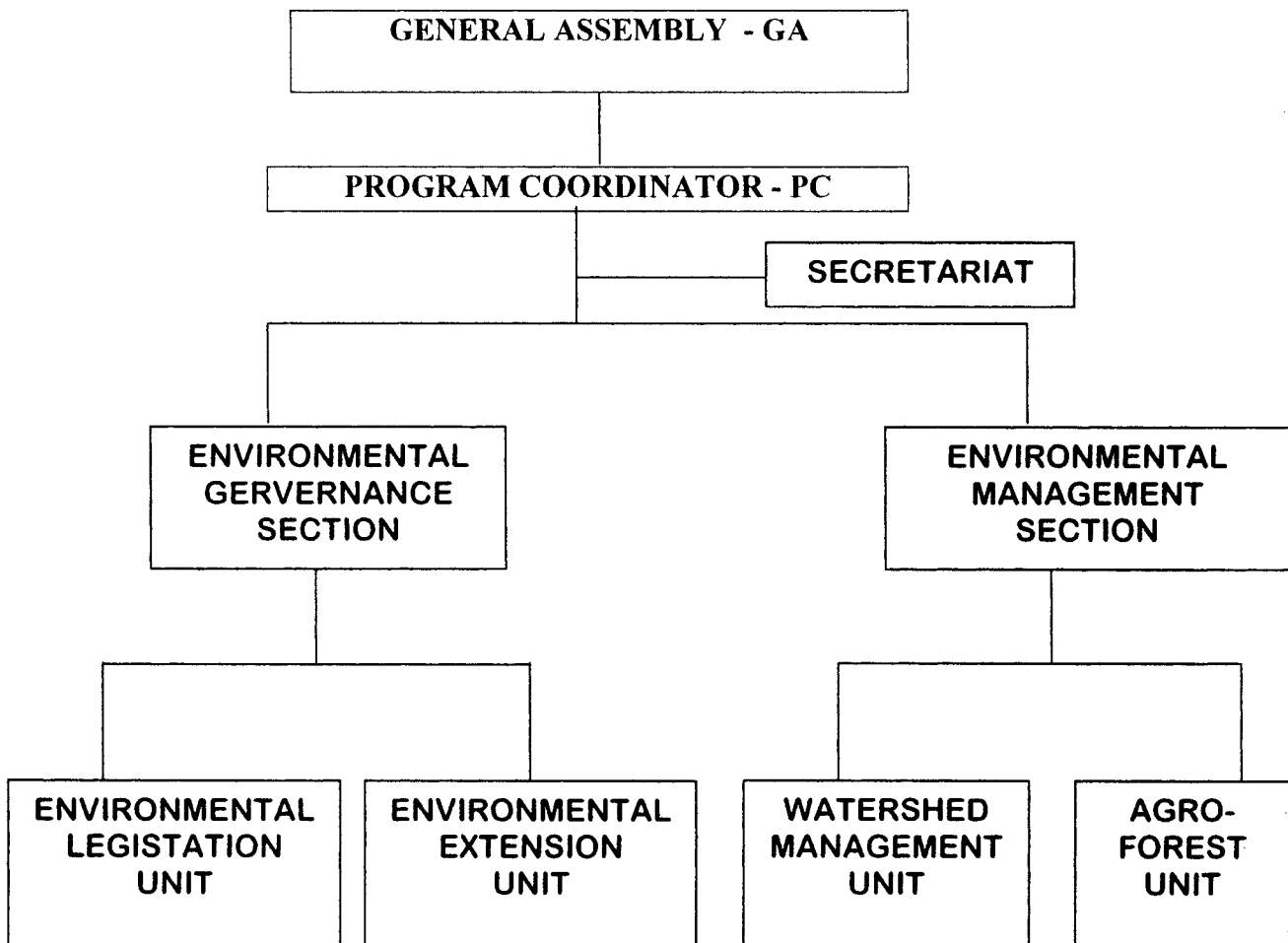
DITEC - Project Coordinator

## APPENDIX IV

**DEVELOPMENT INVESTORS THROUGH ENVIRONMENT  
CONSERVATION  
(DITEC).**

**TANZANIA.**

**ORGANIZATION CHART**



## APPENDIX .V

SN	ACTIVITIES	PROJECT IMPLIMENTATION MONTH JAN 2006 TO MAY 2007																	RESOURCE USED	PERSON RESPONSIBILITY
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5		
1	Management logistics																			
	Confirmation of the acceptance of the research to the organization																		Stationeries	Program Coordinator and CED student
	Meeting with the organization members and staff																		Stationaries,Transport and funds	DITEC staff, Members and CED student
	Community need assessments/PRA																		Stationeries and transport	Staff and Communities
	Compilation of DATA for CNA																		Stationeries	Program Coordinator and CED student
	District/Villages/Schools/Groups/Institutions Meeting and seminars about the project																		Stationaries,transport, technicians and funds	DITEC staff and communities
2	Tree nurseries																			
	Training on nursery technique																		Stationeries	DITEC Staff
	Procurement and collections of nursery equipments																		Equipments and funds	DITEC staff and Communities
	Sawing of tree seed																		Equipments	Communities
	Transplanting and raising of tree seed																		Equipments	Communities
3	On farm forest/Agroforest																			
	Field research about the project																		Technician, transport and funds	CED students DIEC program Coordinator
	Villages/Schools/Groups meetings and trainings & extensions																		Stationaries,transport and funds	DITEC staff and Communities



## APPENDIX. VI

## DEVELOPED LOGICAL FRAMEWORK FOR DITEC

	INTERVENSION LOGIC	VERIFIABLE INDICATOR	SOURCE OF VERIFICATION	ASSUMPTION
<b>OVERALL OBJECTIVE</b>	1. To promote awareness among people through activities such as watershed management, agroforest, tree planting and environmental sanitation programmes which contribute to the maintenance and balance the environment and community development.	-To raise number of tree planting from 120,000 per year in 2005 to 150,000 per year in 2010 -Increase number of contour bands for soil erosion control from 1,110,000 m in 2006 to 2,700,000 in 2010 -Raise Environmental awareness by sensitizing community in 27 villages.	Progress report from the VEOs (Village Executive Officers) Report from DITEC staff.	Villagers to attend the planned seminars and participate in the implementation of the project activities.
<b>PROJECT PURPOSE</b>	DITEC in collaboration with other stakeholders in creating environmental awareness to the community through improving environmental and Agro forest activities in order to balance ecosystem and	About 121,000 people in villages to be involved in these activities up to 2010. About 1, 5000 households to practice agro forest and land use management by 2010. 27 villages adopted land use planning by	- Participatory Rural Appraisal (PRA) -Field visits - Reports from village leaders.	Supply of inputs assured.

	improve the life standard of the people.	2010.		
<b>OUTPUT 1</b>	<p><b>Tree Nurseries and Tree planting</b></p> <ul style="list-style-type: none"> <li>- Establishing 19 private tree nurseries and 5 village tree nurseries</li> <li>- Establishing 30 primary school nurseries</li> <li>- Provide seminars in 27 villages</li> </ul> <p><b>Inputs</b></p> <ul style="list-style-type: none"> <li>- Transport</li> <li>- Tree seed</li> <li>- Stationeries</li> <li>- Field allowances to 5 Facilitators</li> <li>- Bites/ refreshments to 300 villages</li> </ul>	<p>About 15,000 households sensitized on tree nurseries and tree planting by 2010.</p> <ul style="list-style-type: none"> <li>- Seminars in 27 villages</li> </ul>	<p>Report from village villages extension workers</p> <ul style="list-style-type: none"> <li>- Village council</li> </ul>	Timely supply of inputs assured.
<b>OUTPUT 2</b>	<p><b>Agroforest ,water source rehabilitation and Land use plan</b></p> <ul style="list-style-type: none"> <li>- Sensitization of the community on contour bands making.</li> <li>- Establishment of land use plan in 27 villages</li> <li>- Establishment of nurseries at</li> </ul>	<p>About 200,000 farmers to be sensitized on Agro forest and land use by 2010.</p> <ul style="list-style-type: none"> <li>- Established Land use plan in 27 villages by 2010</li> </ul>	<ul style="list-style-type: none"> <li>- Field visit</li> <li>- Reports from village leaders</li> </ul>	<ul style="list-style-type: none"> <li>- Supply of inputs assured</li> <li>- Enough rainfall</li> </ul>



	household level. - Tree planting day. <b>Inputs.</b> - Transport hi - Stationeries. - Bites / Refreshments - Seeds, polythene tube. -Spirit level for contour bands making -Allowances to 5 Facilitator -Purchase of 3 motorcycle	Rehabilitation of 49 ha in watershed management areas by 2010. - 3motorcycles purchased and distributed to extension staff by 2010		
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## APPENDIX VII

## DITEC – STAFF JOB DESCRIPTION

SN	JOB TITLE	JOB DESCRIPTION
1	Program Coordinator	<ul style="list-style-type: none"> <li>i. Planner of all project activities</li> <li>ii. Plan for monitoring and evaluation of the projects</li> <li>iii. Preparation of all organization report</li> </ul>
2	Project Secretary	<ul style="list-style-type: none"> <li>i. Perform secretarial work of the project</li> </ul>
3	Environmental Governance – Section Head.	<ul style="list-style-type: none"> <li>i. Practice capacity building related to environmental laws and legislation to the community</li> <li>ii. Advice on the villages by laws on environment</li> <li>iii. Conduct seminars and workshop on the Governance and environment in the villages, ward and district level</li> </ul>
3.1	Environmental extension - Unit	<ul style="list-style-type: none"> <li>i. Perform extension work of the organization</li> </ul>
4	Environmental Management – Section Head	<ul style="list-style-type: none"> <li>i. Perform environmental management work of the project</li> </ul>
4.1	Watershed Management – Unit Head	<ul style="list-style-type: none"> <li>i. Plan the management of watershed areas</li> <li>ii. Conduct seminars at the villages, ward, district level</li> <li>iii. Prepare reports of the unit</li> <li>iv. Liaison officer with other organizations</li> </ul>
4.2	Agro forest – Unit Head	<ul style="list-style-type: none"> <li>i. Perform all agro forest work of the project</li> </ul>
5	CED - Student	<ul style="list-style-type: none"> <li>i. Attached to watershed management unit</li> <li>ii. Perform a research work</li> <li>iii. Plan and execution of watershed management work</li> <li>iv. Liaison officer with other research institution</li> </ul>

**APENDIX. VIII. Percentage distribution of population by board age group:  
Rombo district 2005**

Range of age	Number			Percentage	
	Both Sexes	Male	Female	Male	Female
0-4	36760	18523	18237	50	50
5-9	40749	20662	20087	51	49
10-14	40228	20167	20061	50	20
15-19	21544	10292	11252	48	52
20-24	14015	5656	8359	40	60
25-29	13659	5570	8089	41	59
30-34	13770	5924	7846	43	57
35-39	11998	5278	6720	44	56
40-44	10387	4711	5676	45	55
45-49	8784	3959	4825	45	55
50-54	7623	3588	4035	47	53
55-59	4861	2263	2598	47	53
60-64	2505	2418	2787	46	54
65-69	4065	1895	2170	47	53
70-74	4086	1807	2279	44	56
75-79	2787	1371	1416	49	51
80	5195	2254	2941	43	57
TOTAL	245,716	116,338	129,378	47	53

**Source:** Tanzania Population and Housing Census (2002)



+++	INTERNATIONAL BOUNDARY
---	DISTRICT BOUNDARY
---	DIVISION BOUNDARY
---	FOREST RESERVE BOUNDARY
---	NATIONAL PARK BOUNDARY
---+	TARMAC ROAD
→	MURUM ROAD
+	LOOSE SURFACE ROAD
---	WARD BOUNDARY

DISTRICT  
MAP

VILLAGE  
LOCATION

Prepared by:  
Maika E.S.  
(Town planner)

## QUESTIONNAIRE FORM.

### 1. Basic information

1. Name of enumerator .....

2. Gender Male ☐ Female ☐

2. Date.....

3. Village ..... Ward.....Division.....

4. (a) Name of Farmer.....Sex.....Age.....

(b) Marital Status I. Single ☐

II.Maried ☐

(c) Education

I. Informal ☐

II.Adult Education ☐

III.Primary Education ☐

IV.Secondary Education ☐

V.Other specify ☐

(d) How many people are in your Household? ..... (Number)

**2. Watershed management practices**

I. What is the method used to own land in the villages

- a) Communal ☐
- b) Private ☐
- c) Clan ☐
- d) Others specify ☐

II. Are there participatory Land Use Plan established in the villages

Yes ☐

No ☐

III. Are there water source areas in your village?

Yes ☐

No ☐

IV. How many water source areas existing in your villages, Specify numbers.....

V. What is the status of water availability in the village

Good ☐

Fair ☐

Not Good ☐

VI.What is the status of water source areas

Good ☐

Fair ☐

Not Good ☐

VII.What was the status of water availability in 10 years past

Good ☐

Fair ☐

Not good ☐

VIII.What was the Status of water source areas in last 10 years

Good ☐

Fair ☐

Not good ☐

IX.If the availability of water currently is not good what is the reason?

.....

.....

X.Are you satisfied with the village effort of water source management

Satisfied ☐

Not satisfied ☐

XI. (a) If not satisfied with the effort of water source management give your reason

Lack of extension services ☐

Lack of knowledge ☐

Lack of environment committee ☐

(b) Are there any impacts of mismanagement of water source areas in your village

For last 5 years.....

.....

(c) Are there necessity of establishing land use management plan in you're village?

Yes ☐

No ☐

XII. Are there any organization work to improve watershed management in your village

Yes ☐

No ☐



XIII. Can you suggest an approach of extension services to any organization which is interested to practice good watershed management practice in your village.

.....  
 .....

XIV. Do you have an interest of contributions towards effort of watershed management in your village.

.....

### **3. Measures to reduce watershed mismanagement practices.**

XV. What type of contribution you think you can give

- |  |                          |
|--|--------------------------|
| Participate in any established project | <input type="checkbox"/> |
| Financial contribution                 | <input type="checkbox"/> |
| Labour contribution                    | <input type="checkbox"/> |

XVI. What measure do you think can be taken to reduce the problem of improper watershed management in your village.

- |  |                          |
|--|--------------------------|
| Proper enforcement of by laws and principle legislation laws | <input type="checkbox"/> |
| Proper sensitization of community on watershed management    | <input type="checkbox"/> |
| Government to work hard on improving watershed areas         | <input type="checkbox"/> |

**4. Specific activities to be undertaken**

XVII. What specific activities can you suggest to be undertaken in your village on improving watershed management practices.

I. Tree planting in the water source areas ☐

II. Grass planting ☐

III. Establishment of watershed boundaries ☐

IV. Establishing watershed management team ☐

V. Amendment of existing by laws ☐

VI. Prohibit grazing ☐

VII. Prohibit cutting of grass ☐

VIII. Prohibit collection of wood ☐

IX. Reducing of eucalyptus and other harmful tree species in water source point ☐

**IX.Reducing of eucalyptus and other harmful tree species in water source  
point□**

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OPEN UNIVERSITY OF TANZANIA

&  
SOUTHERN NEW HAMPSHIRE UNIVERSITY

**ASSESSMENT OF A COMMUNITY  
BASED WATERSHED MANAGEMENT PROJECT A  
CASE STUDY IN KELAMFUAMOKALA WARD  
IN ROMBO DISTRICT - TANZANIA**

PRESENTATION 2007

ASSESSMENT OF A COMMUNITY BASED WATERSHED MANAGEMENT PROJECT IN  
KELAMFUAMOKALA WARD  
IN ROMBO DISTRICT - TANZANIA

BY ADIL E. MWANGA – MSC CED

ID# ;0618696

LOCATION – ROMBO DISTRICT  
KILIMANJARO REGION – TANZANIA

YEAR – 2007

NAME OF ORGANISATION:

HOST ORGANISATION:  
DEVELOPMENT INVESTORS THROUGH  
ENVIRONMENTAL CONSERVATION  
(DITEC)

### Sponsors of the Research

- DITEC - Development Investors Through Environment Conservation
- RDC - Rombo District Council
- GF - Jubilee Georg Fischer Foundation (Switzerland)

### Introduction

The degradation of water sources and increasing water scarcity are the major threats to the welfare of community in Kelamfuamokala ward in Rombo Districts.

(DITEC) initiated project to facilitates sustainable watershed management.

Watershed Management is an iterative process of integrating decision-making regarding uses and modifications of lands and water within watershed areas

### PROBLEM TO BE SOLVED

POOR LAND MANAGEMENT PRACTICES IN THE UPPER WATERSHED AREAS OF MOUNT KILIMANJARO AND ITS ADJACENT VILLAGES HAVE LEAD INTO ENVIRONMENTAL DEGRADATION INCLUDING DECREASING WATER QUANTITY AND QUALITY IN KELAMFUAMOKALA WARD IN ROMBO DISTRICT

## Overall Objective of the Research

- The overall objectives of the study was to raise awareness of the community on the intergrated watershed management skills and conserving water source areas in Kelamfuamokala ward by the year 2010.

## Research Questions To Be Answered

- ☐ Causes of Poor watershed management practices
- ☐ Impact of improper/poor watershed management practices
- ☐ Measures to mitigate problem of Poor watershed management
- ☐ Specific activities to be undertaken

## Literature Review

### 1.THEORETICAL LITERATURE REVIEW

- Watershed Management is an iterative process of integrated decision-making regarding uses and **modifications of lands and water** within watershed areas. Donald, S.R 197, Kowero, G.S. 1990 & Saleth, R. M. 1999.

### THE EFFECT OF MISMANAGEMENT OF WATERSHED AREAS

## Literature Review Cont.

- increasingly of water shortage in rural and urban centers in Kilimanjaro region and other parties of the Tanzania country (Kulindwa, K. 2005).
- As a form of ecosystem management, watershed management encompasses the entire watershed system, from uplands and headwater, to floodplain wetlands and river channels, all these needs to be protected (Emerton, L. and Bos, E.2004).

## Literature Review Cont.

### EFFECT OF DEFFORESTATION ON WATERSHED MANAGEMENT

Deforestation Fire and overgrazing (Vudzijena, V.1998).

#### Groundwater Flow Recharge

Discharge is continuous, as long as sufficient water is present above the discharge point. Discharge points typically occur as seepage into wet-lands, lakes and streams. Springs are visible discharge points at the land surface

## Literature Review Cont.

### 2. THE EMPIRICAL LITERATURE

Local Communities Participation in watershed management

The approaches of other watershed management projects

### 3. THE POLICY LITERATURE REVIEW

## Literature Review Cont.

- Inadequate education and awareness on watershed management issues and watershed values
- Decision-making powers of communities in practicing of environmental protection issues and watershed management projects.

## Methodology & Survey Design

- The descriptive survey designed for this project was mainly done by collecting information's from the community through Participatory Rural Appraisal (PRA), interviewing the selected groups of individuals, using designed surveying questionnaires and observation methods.

## Sample

- The survey population were selected randomly. In sample random sampling people were selected randomly by using random numbers, groups like primary school and other CBO.S were also selected for interview by using random sampling methods.
- 21 people were interviewed from each village in Kelamfuamokala ward in order of getting information concerning watershed management. Selected sample of 61 people were picked to represent 3 villages in Kelamfua Mokala ward.
- The total number of the population sample selected as 61 individuals represent 5% of the households. Among the respondents 68.9% were males and 31.1% females.

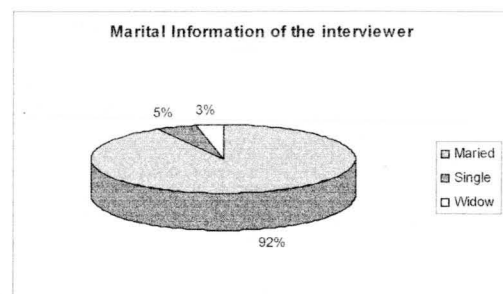
## Analysis

- The information collected was analyzed using computerized data analysis system (SPSS package was used)
- In analyzing the data, tables, charts and statistical illustration were applied as appropriate.
- The data collected was both qualitative and quantitative descriptions in nature .

## Results & Discussion

- The total number of the population sample selected as 61 individuals were represented 5% of the households. Among the respondents 31.1% were female and 68.9 % female.

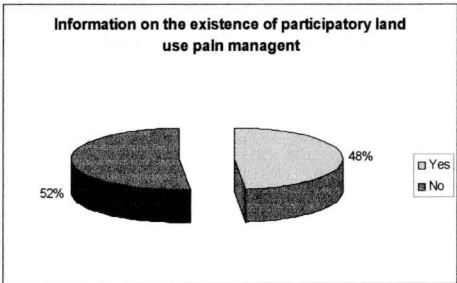
## Basic Information –Marital status.



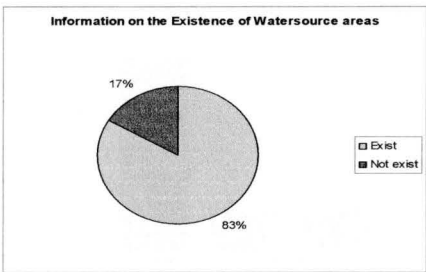
Basic Information- Education

- Education background of the respondents, out of 61 .51(84%) primary school,5(8%) have adult education,4 (7%) secondary schools while only 1(1%) college education
- People with higher education have a high spirit of community economic development contribution compared to people with low standard of education.

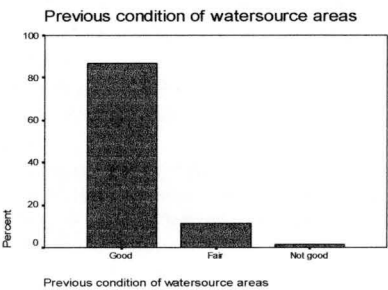
Watershed management Practices.



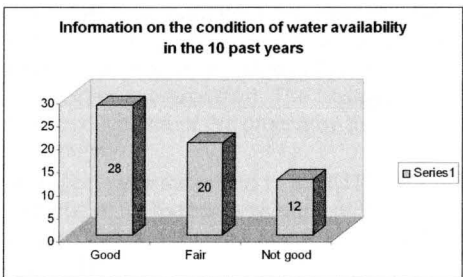
Watershed management Practices cont.



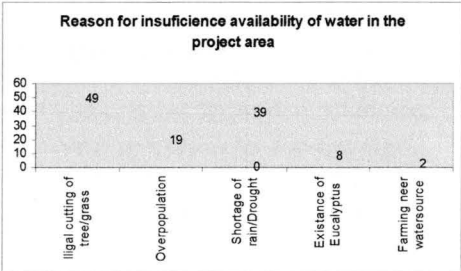
Watershed management Practices.



Watershed management Practices.



Watershed management Practices.



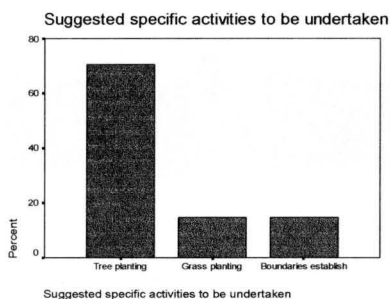
## Mitigate the problem of watershed management

- 49 respondents rank sensitization/awareness raising in the community as the first measure to be undertaken by the project in order to reduce the problem, while 35 respondents rank enforcement of principles legislation laws and by laws as the second measure to be instituted

## Community contribution

- The result indicates that 42 respondents were interested on labour contribution, 15 were interested on just participation and 3 were interested in giving financial contribution.

## Suggested project activities



## Implementation

- Rehabilitation of 11 watersource areas
- Fixed permanent boundaries for 5 watersource /streams
- 7 Private/Individuals tree nurseries
- 13,245 Tree seedlings planted in watersource areas
- Training/establishment of participatory land use management plan for 1 village and capacity building on watershed management skills(17 Meeting/Seminars).

## Monitoring & Evaluation

- This was done through assessments forms, evaluation checklist, visit and involvement of local community at all stages of the project (Participatory evaluation). The findings indicates high acceptance of the project by the community.
- All report were submitted to the DITEC secretariat for further evaluation of the project(Mid term Review and End of year two Evaluation) .

## Sustainability of the project

- The community were involved right from the beginning of the project and therefore this assure the sustainability of the project after phasing out of the donor funding,
- Technical and financial support from DITEC contributions will continue to assure a good sustainability of the project.

#### Conclusion and Recommendations

To distribute results of the study to other organization working in similar objective within the District so as to wide the implementation of the project

Involves Other stakeholders in interpreting and implementation of the findings, these will includes; political leaders, religion leaders, government officials, district councilors and other NGO/CBO.



END

Thank you