

North-Nyang'oro woodlands Forest Reserve
Iringa,
Tanzania

**Agreement,
Bylaw,
&
Management Plan**

Iringa,
December 2001

Table of contents

CHAPTER ONE: INTRODUCTION	4
CHAPTER TWO: FOREST BACKGROUND.....	13
2.1 THE FOREST HISTORY	13
2.1 SOCIAL AND ECONOMICAL RELATIONSHIP IN THE FOREST.....	14
2.2 VILLAGES.....	14
CHAPTER THREE: AIM OF THE PLAN.....	14
3.1 LONG TERM PLAN.....	14
3.2 SHORT TERM PLAN	14
3.3 STRATEGIES FOR IMPLEMENTATION.....	15
3.3.1 <i>Activities to be done inside and outside the forest for its improvement.</i>	15
(a) Inside the forest.....	15
(b) Outside the forest.....	15
CHAPTER FOUR: MANAGEMENT STRATEGIES.....	15
4.1 BORDERS	15
4.2 ZONATION.....	15
(i) <i>Zone for catchments reserves, mountains peaks, tourist attraction centers and valleys.</i>	
16	
(ii) <i>Wild animal reserve zone</i>	16
(iii) <i>Production zone</i>	16
4.2 FOREST MANAGERS	16
4.3 RESPONSIBILITIES AND IMPLEMENTATION.....	16
(1) <i>Village governments</i>	16
(2) <i>Zonal coordination committee</i>	16
(3) <i>Natural resources committee</i>	17
(4) <i>Villagers</i>	17
(5) <i>District council (natural resource department)</i>	17
4.4 PROTECTION.....	17
4.5 REPORTING.....	17
CHAPTER FIVE: CONSERVATION PROCEDURES	18
5.1 RESOURCES/PROHIBITED SERVICES	18
5.2 RESOURCES/SERVICES AVAILABLE BY PERMIT.....	18
5.3 RESOURCES/SERVICES AVAILABLE WITHOUT PERMIT.....	18
5.2 PROCEDURES AND LAWS.....	19
5.2.1 <i>Permits</i>	19
5.2.2 <i>Offences, which deserve punishment</i>	19
5.2.3 <i>Proposals for amount of fine</i>	19
(a) Things allowed without permit/by permits.....	19
(b) Doing things that are totally prohibited.....	20
5.2.4 <i>Sending trials to court</i>	20
CHAPTER SIX: REVENUE.....	20
CHAPTER SEVEN: REVIEW OF THE MANAGEMENT PLAN.....	21
CHAPTER EIGHT: RELATIONSHIP BETWEEN VILLAGE AND VILLAGE, VILLAGES AND DEPARTMENTS.....	21
CHAPTER NINE: EVALUATION.....	21
CHAPTER TEN	<i>Error! Bookmark not defined.</i>
THE DIRECTOR OF FOREST AND BEES	5
AND.....	5

ROYALTIES FOR PRODUCTS, RESOURCES AND FOREST SERVICES	22
BIRDS	23
APPENDIX 2.....	24
APPENDIX 3.....	25
MAKATAPORA	25
APPENDIX 4.....	26
APPENDIX 5.....	27
APPENDIX 6.....	28
TREE PRESENT ITS AVAILABILITY AND USE.....	28

List of acronyms

VNRC-	Village Natural Resources Committee
DANIDA-	Danish International Development Agency
GN -	Government Notice
NTFP-	Non Timber Forest Products
WEO -	Ward Executive Officer

NORTH NYANG'ORO WOODLANDS FOREST
RESERVE

AGREEMENTS

BETWEEN

THE DIRECTOR OF FOREST AND BEEKEEPING
DIVISION

AND

MAKATAPORA, MIGOLI, IZAZI AND MAKUKA
VILLAGE
GOVERNMENTS, IZAZI YARD, ISIMANI DIVISION,
IRINGA DISTRICT, IRINGA REGION.

December 2001

This agreement is made in regard to the management of North Nyang'oro woodland Forest in collaboration with the villages.

It is hereby agreed that:

1. The Forest in this agreement is North Nyang'oro woodland forest bordering Makatapora, Migoli, Izazi, and Makuka villages as shown on the map attached in this plan.
2. Supervision of North Nyang'oro woodland forest will be under the Makatapora, Izazi, Migoli and Makuka villages. All security activities will be done by those villages.
3. Selected village natural resources committee and villagers from the villages concerned in this plan will be the main supervisors and will be responsible under the concerned village government and village general assemblies.
4. Village natural resources committee will supervise North Nyang'oro forest according to agreed systems in this plan.
5. Concerned village governments will prepare village by-law to help the supervision of North Nyang'oro forest. Recommendations of those laws have been shown in this plan.
6. All the villages will follow the procedures for sustainable use of forest resources as shown in this plan.
7. Workers from department of natural resources in Iringa district have the authority to enter and do inspection any time and to give advise on issues related to forest supervision and natural resources committee will value that advise.
8. Natural resources committee will prepare a quarter a year report and will be combined by zonal coordination committee, those reports will be read in village general assemblies and sent to District natural resources department.
9. District natural resource department will prepare one year report and give it to District executive Director, copy to Director of forestry and beekeeping.
10. This agreement will be legitimit for a period of one year after get signed till when is reviewed. Bee and forest director is authorized to do amendments and changes when there are weakness in implementation of the plan.

Director of Forestry & Beekeeping Division.....

Date.....

Iringa District Executive Director

Date

Village Chairpersons:

Makatapora.....Date.....

Migoli.....Date.....

Izazi.....Date.....

Makuka.....Date.....

LOCAL GOVERNMENTS LAWS
DISTRICT AUTHORITY

1982

(No.7 of 1982)

BY LAW

Have been formulated under act no. 67 (That giving a permit/authority/and give directives to each village to formulate it's by law)

(1) These laws will be known as (North-Nyang'oro zone by-laws and will be used by Villages of Makatapora, Migoli, Izazi and Makuka in Izazi wards from year 2002

(2) Title

Participatory forest management plan

Means Participatory forest management for North-Nyang'oro prepared by Zonal Planning committee and approved by villages' governments and villages assemblies of Makatapora, Migoli, Izazi and Makuka.

Forest zone

Means demarcated areas in the forest reserve for the villages of North-Nyang'oro zone for uses and conservation.

Village government

Means the village government of Makatapora, Migoli, Izazi and Makuka with 25 members.

Village assembly

Means a meeting that involving all villagers and has a final resolution in the implementation of the management plan

Village Natural resources

Means sub committees consist of members between 9 and 11 elected by village assemblies for forest management.

Zonal Coordination Committee

Means a committee represented by two (2) members from each village of North-Nyang'oro Zone.

Forest Guards

Means appointed for forest guarding activities in the village, these guards have undergone military training.

Court

Means primary court, District, region and high court

Permit

Means a permit of village government.

Forest produce includes:

Timber, Fuel wood, mushrooms, Arabic gum, roots, grass, sand, stones, soil, fruits, tree barks, poles, withes, ropes, leafs, logs and charcoal

Forest services include:

Rituals, scientific research, tourism, Beekeeping and water.

(3) This by-law has been formulated in accordance with the participatory forest management plan of NorthNyang'oro zone by the villages of and will be used by Makatapora, Migoli, Izazi and Makuka villages in Izazi ward.

(4) The following Rules and Procedures have been stipulated in Participatory forest management plan of North-Nyang;oro as follows:

Rules and Procedures of the plan**(a) Management zones****(i) Management zone includes; Catchments forest, mountain peaks, tourism attractive sites and valleys:**

This zone will include all water sources (catchments) areas and steep slopes and tourists attraction sites, such as caves and campsites areas. There is no any harvesting activities except for activities which will not be harmful to the environment such as mushrooms collection, medicine, beekeeping and grass cutting. Harvesting activities will not be done within 100m. from the valleys edges, rivers and water sources.

(ii) Production zone:

This zone will include all areas, which were not mentioned in the above zones. Harvesting areas will be allocated in a proper manner (rotation harvesting). Forest resources in accordance with specification and as stated in a plan will be available in those areas.

Various signs will be marked in order to separate the zones e.g. Posters and natural features e.g. Mountains etc.

(iii) Closed zone, for regeneration:

This zone will involve all areas affected with uncontrolled harvesting and forest fires. These areas will be closed for a while in order to allow regenerations.

The only activities allowed in the forest include: Medicine and mushrooms collection, beekeeping and grass cutting

(b) Resources/Services/banned activities

- ? *Pterocarpus angolensis* harvesting
- ? Agriculture inside the forest
- ? Human settlements/ building new houses inside the forest
- ? Hunting animals which are nationally prohibited
- ? Honey collection in the rocks and tree caves
- ? To change or to remove boundaries signs or warning signs in the forest.
- ? To start fire

(c) Resources/services by permits:

- ? Dry fire wood –commercial
- ? Mushrooms collection-commercial
- ? Medicines digging by traditional practitioners
- ? Tourism
- ? Scientific research
- ? Cutting of poles, yokes for various uses
- ? Grass cutting for sale
- ? Charcoaling
- ? Fuel wood cutting for bricks burning
- ? Lumbering
- ? Collection of sands, soil and stones
- ? Cutting of trees for canoe, beehives and traditional stools
- ? Ropes for sale
- ? Illegal hunting
- ? Pastures
- ? Beehives hanging
- ? Rituals/custom and taboos
- ? Fishing
- ? Gum collection

(d) Resources/services without permits:

- ? Dry fire wood for domestic uses for all villagers of all villages which are in this management plans
- ? To pass in afoot paths/vehicle on allowed roads or paths
- ? Fetching water
- ? Wild vegetables, mushrooms and wild fruits collections
- ? Ropes for household uses-residents only
- ? Grass cutting for household uses-residents only
- ? Digging of Medicines for individual use-residents only

(e) Resources, which will be available without permits, will be collected by following special procedure:

- ? Dry fire wood for household uses- **Monday, Wednesday and Saturday**
- ? Foot path/by vehicle- **everyday**
- ? Fetching water- **everyday**
- ? Wild vegetables, fruits and mushrooms collections-**Monday, Wednesday and Saturday**
- ? Ropes, grass cutting, digging of medicine for individual uses-**Monday, Wednesday and Saturday**

(f) All services and Resources allowed without permit for residents will be taken with permit by the visitors from outside the villages that are under this management plan

(5) Any member of the village government, Village Natural Resources Committee, or a forest guard may apprehend an offender suspected to break the rules and procedures laid down or possesses resources obtained illegally and will be sent to the Village government

(6) Should an offender not satisfied with a penalty/fine given by the village government his/her issue will be heard by ward council or primary court and decision can be made by following the District Council by-laws or Ward council by-laws or court has a right to refer to the village by-laws and it reserves the right together with other penalty to force an offender to compensate on what have been destructed and compensation of case running costs to the village if found guilty.

(7) Anybody who will do against rules and procedures stipulated in section (a), (b), (c), and (d) of North-Nyang'oro Participatory forest management plan will be guilty

(8) If an offender did a crime that will not be decided at village level, such as being caught with government trophy, to posses a weapon illegally etc an offender will be sent to court as soon as possible.

(9) Penalty

Anybody who will break one of the rules and procedures laid down in the Participatory Forest Management plan for North-Nyang'oro forest reserve, he/she

may be fined not less than fifty thousand shillings (50,000/=). Also his/her tools used for destruction may be confiscated and will compensate the destruction he/she did in the forest. All the resources apprehended will be confiscated and auctioned publicly. An offender might be forced to remove a building, livestock, cattle “boma”, or any thing inside a forest area if break the rules and procedures laid

(10) These by- laws will be in use officially after being approved by Iringa District Council and signed by Chairman and District Executive Director of Iringa District Council.

A village stamp of.....stamped in these by- laws following resolution of village assembly of this village that passed these by- laws done on:

Date.....Month.....Year.....

VILLAGE EXECUTIVE OFFICER

VILLAGE CHAIRPERSON

VILLAGE _____

A stamp of Iringa District Council was stamped following resolution that passed these by- laws in a full council meeting of.....2002 and endorsed by

**DISTRICT EXECUTIVE DIRECTOR
IRINGA DISTRICT COUNCIL**

**HON.PETER SIYOVELWA
CHAIRMAN
IRINGA DISTRICT COUNCIL**

CHAPTER ONE: INTRODUCTION

This plan has been prepared by representative members of forest management plan committee of North Nyang'oro zone of Makatapora, Migoli, Izazi and Makuka villages helped by Isimani Division forest specialists. This plan shows procedures, which are going to be used by the community in management North Nyang'oro woodland forest. This forest is an important resource in all the villages concerned with this plan. In general those villages have great motive to conserve that forest so as to be under the control of the village concerned.

In this plan villages have decided together not to allow that area to be used for other uses against the conservation of the forest.

Village rules and procedures for forest conservation will guide all plans for conservation, ownership and sustainable use of crops and resources in the forest.

CHAPTER TWO: FOREST BACKGROUND

2.1 The forest History

North Nyang'oro forest concerned in this plan is part of natural woodland forest that is inside the borders of Makatapora, Migoli, Izazi and Makuka villages in Izazi Ward, Isimani Division, Iringa District in Iringa Region. The main resources present are trees for firewood, timber and other uses, wild animals, birds, insects and stones. This forest faces the following problems: -

- ? Fire outbreak
- ? Farming inside the forest
- ? Residence inside the forest
- ? Pastures inside the forest
- ? Uncontrolled cut of trees for timber, firewood/charcoal, poles and canoe building and other materials
- ? Illegal hunting of wild animals
- ? Honey harvesting in stone and tree caves
- ? Mining
- ? Border conflict between Izazi and Nyang'oro, Makuka and Chamdindi villages and Izazi village in Pawaga Division.
- ? Destruction of catchments areas.

This forest is found in Nyang'oro mountains ranges in lowland zone with high temperature. This area receives rainfall below 500mm annually. Vegetation in this forest is found in two areas, lowland is dominated by Acacia tree species and in highland 'miombo' trees are found

2.2 Social and economical relationship in the forest.

2.2.1 Villages

VILLAGE NAME	NUMBER OF PEOPLE	SIZE OF FARMS (ACRE)	SOCIAL SERVICES	MAIN ECONOMIC ACTIVITIES
MAKATAPORA	2469	0.5-3	School	Fishing Livestock keeping
MIGOLI	3714	0.5 – 3	School, Health Centre, Dispensary, Court, Police station	Fishing, Livestock keeping
IZAZI	3560	0.5 – 3	School, Dispensary	Fishing, Livestock keeping
MAKUKA	2745	0.5 – 3	School	Fishing, Livestock keeping
TOTAL	12488			

2.4 Services the community depends from the forest

Firewood for home use and for drying fishes, trees for making canoes, poles, medicines, fruits, sticks, mushrooms, honey, stones, rituals, timber, pastures, meat, water, charcoal, tree for craft, handles etc.

CHAPTER THREE: GOALS OF THE PLAN

3.1 Long term plan

- ? To raise community income by having sustainable use of resources coming from natural resources.
- ? To improve biodiversity condition in the forest (animal, birds and other living organism)

3.2 Short term plan.

- ? To make sure that present resources are being used wisely so that it will be useful for the present and future generation.
- ? To make sure that the community concerned value that forest and are contributing in providing security conserving and to have sustainable use.

3.3 Strategies for implementation

3.3.1 Activities to be done inside and outside the forest for its improvement.

(a) Inside the forest

1. Patrols and protection
2. Planting of natural trees in open areas(enrichments planting)
3. To clean fire outbreaks
4. To hang warning sign posters.
5. To improve forest roads
6. Modern bee keeping

(b) Outside the forest

1. Forest conservation education to the community
2. Keeping of small animals
3. Starting of small economic projects
4. Starting of tree nursery and tree planting
5. To provide education on economical charcoal stoves for cooking and drying fishes.
6. To start vegetable and fruit gardens
7. Education on harvesting and use of resources from natural resources
8. Education on the use of alternative source of energy.
9. Education on building of permanent houses and better toilets.
10. Education on modern agriculture for food and commercial crops.
11. Improvement of forest resources markets.
12. Preparation of by-laws and enforcement.

CHAPTER FOUR: MANAGEMENT STRATEGIES

4.1 Borders

Inside borders will be identified by using natural features like valleys, rivers, mountains and rocks. Outside borders have been marked with colors to help the community to identify those borders easily.

Every village will supervise the forest area found inside its borders but services and procedures will be provided equally to all the villages concerned in this plan.

4.2 Zonation.

North Nyang'oro forest will be having three major zones.

- (i) Areas for catchments, mountain peaks, tourist attraction sites and valleys.
- (ii) Wild animals (game) reserves
- (iii) Production areas.

(i) Zone for catchments, reserves, mountains peaks, tourism attraction centers and valleys.

This zone will include all catchments area mountain slopes and tourist attraction areas like caves and camping areas. No any harvesting activities but only activities which will not affect in large scale like mushroom harvesting digging of medicine, bee keeping and cutting of grasses.

(ii) Wild animal reserve zone

This zone will include all areas with big numbers of wild animals. No activities will be allowed in these areas except fetching of water, collection of wild fruits, use of forest roads, harvesting of natural vegetables, hanging of beehives, digging of medicine, scientific research and tourism.

(iii) Production zone

This zone will include all areas that are not found in zones mentioned above. Harvesting areas will be arranged in special procedures (harvesting while alternating). Forest products according to standards and as it was classified in the plan will be available in those areas.

Different marks will be placed for zones separation like billboards, paints and natural features like mountains etc.

4.2 Forest managers

Village natural resource committee will be the main forest managers and will be accountable to the concerned village governments.

4.3 Responsibilities and implementation

(1) Village governments

- ? To prepare village by-laws for conservation and enforcement
- ? Signing of different agreements
- ? To approve permits for getting forest resources.

(2) Zonal coordination committee

- ? To compile implementation and management reports.
- ? To give advise on forest management
- ? To do evaluation on forest management.
- ? To co-operate with the village leadership to prepare procedures on the use of resources found in natural forest in villages, together with searching for markets to raise the village income.
- ? To identify all resources found in natural forest in villages and to keep its records (Plants, wild animals, bees, fish, minerals)

(3) Natural resources committee

? Implementation of forest management plan.

(4) Villagers

? To receive and give final decision on implementation of participatory forest management plan.

(5) District council (natural resource department)

? To sign legal agreement concerning natural resource between the villages and the council.

? To approve and authorize natural resources by-laws brought from the villages

? To provide technical advise on implementation of participatory forest management plan.

? To prepare and conduct various trainings on natural resources to the community.

4.4 Protection.

? All the villagers will be responsible on the forest protection and are responsible to arrest or report to concerned authority on any criminal act.

? Natural resources committee and village security guards will patrol once in a week. Also patrol will be done any time when sign for criminal activity are seen inside the forest.

? All the villages concerned in this plan will cooperate in providing security to the forest. When security guards from one village discover criminal activity in an area in another village it will need them to arrest or report to the authority of that village.

? All criminals will be sent to village offices and concerned authority.

4.5 Reporting

Implementation reports will be prepared by village natural resource committee and combined by zonal coordination committee.

Zonal coordination committee will compile a quarter a year reports for implementation of forest management and give it to the district natural resources department after reviewing it to the village general assembly.

Natural resource department will prepare a year report on development of implementation of participatory plan and give it to the district council and copy send to the director of forest and bee keeping Division.

CHAPTER FIVE: CONSERVATION PROCEDURES

5.1 Resources/Prohibited services

- ? Agriculture or new farms inside the forest
- ? Residence/building inside the forest
- ? Hunting prohibited animal/nationwide
- ? Harvesting honey in stone and tree caves
- ? To change and remove border marks or caution marks inside the forest.

5.2 Resources/Services available by permit.

- ? Dry firewood for business and visitors from outside the village.
- ? Picking of mushroom for business
- ? Digging of medicine by witch doctor
- ? Tourism
- ? Scientific research.
- ? Cutting of poles, wood beams and yoke harness for any use.
- ? Cutting of grasses for business.
- ? Charcoal burning.
- ? Cutting of firewood for brick burning.
- ? Lumbering.
- ? Collection of soil and stones.
- ? Cutting of trees for canoes, beehives and traditional stools.
- ? Picking of ropes for business.
- ? Hunting.
- ? Pasture for livestock.
- ? Hanging of beehives.
- ? Prayers to gods/customs and norms.
- ? Fishing.
- ? Collection of Arabic gums and tree fluids.
- ? Camping.
- ? Digging of limestone.
- ? Digging of water potholes/wells.
- ? Cutting of trees for livestock “Boma” and fences.

5.3 Resources/Services available without permit

- ? Dry firewood for home use among residents of the village concerned in this plan
- ? Using of planned forest roads by foot or using vehicles
- ? Fetching of water
- ? Picking of vegetables, mushrooms, fruits for home use by residents
- ? Picking of ropes for home use by residents.
- ? Cutting of grasses for home use by villagers
- ? Digging of medicines for private use by villagers

Resources available without permit will be collected in special arrangement

Dry firewood for home use – Mondays, Wednesdays and Saturdays.

Using of forest roads - everyday

Fetching of water - everyday

Picking of vegetables, fruits, and mushrooms – Monday, Wednesday and Saturday.

Peeling of ropes, cutting of grasses, digging of medicine for private use – Monday, Wednesday and Saturday.

List of resources and all services that will be charged royalties and their amount are attached in this plan.

5.2 Procedures and laws

5.2.1 Permits

Village natural resource committee will be responsible for issuing the permit for using forest resources or any other services. Village government will review all the permits given out in a village following agreed procedures in this plan.

5.2.2 Offences, which deserve punishment.

Anything done by any person against rules and procedures agreed in this plan.

5.2.3 Proposals for amount of fine.

(a) Things allowed without permit/by permits

1. Entering the forest to collect resources allowed on unauthorized day-fine Shs.2000/=
2. Taking firewood for business without permit – fine for residents Shs.15, 000/= for visitors fine Shs.25, 000/= and holding the firewood.
3. Cutting of new firewood for any use without permit fine for resident Shs.25, 000/= fine for visitors Shs.30, 000/= and taking hold of firewood.
4. Cutting of trees for lumbering, building of canoes and stools, the fine is Shs.50, 000/= and taking hold of resources.
5. Fine for picking mushrooms for business without permit for residents Shs.500/=, for visitors Shs.1000/= and taking hold of resources.
6. Digging of medicine by witch doctors without permit fine for residents Shs.2000/= visitors Shs.5000/=
7. Fine for tourism without permit Shs.50, 000/=.
8. Fine for scientific research without permit Shs.50, 000/=.
9. Cutting of poles, rocks and yoke harness without permit fine for residents Shs.5, 000/= for visitors Shs.15, 000/=
10. Charcoal burning without a permit fine for residents Shs.50, 000/= , visitors Shs.50,000/= and taking hold of resources.
11. Cutting of grasses for business without a permit fine for residents Shs.1000/= for visitors Shs.3, 000/=
12. Fine for feeding livestock without a permit Shs.50,000/= and removal of livestock from that area.
13. Fine for hunting without a permit Shs.50, 000/= and taking hold of meat.

14. Fine for conducting rituals without a permit Shs.5,000/= .
15. Fine for collection of Arabic gum and tree fluids without a permit Shs.50,000/= and taking hold of resources.
16. Fine for hanging beehives without a permit Shs.15,000/= and get forces to remove the beehives.
17. Fine for picking of ropes for business Shs.5,000/= and taking hold of the property.

(b) Doing things that are totally prohibited.

1. Fine for farming inside the forest Shs.50, 000/= and getting shifted from an area.
2. Fine for new residence inside the forest Shs.50, 000/= and getting shifted from the area.
3. Hunting animals prohibited nationwide – send to court.
4. Fine for honey harvesting in stone and tree caves Shs.50, 000/= and taking hold of honey and comb.
5. Fine for changing or removing forest mark Shs.50, 000/= and paying back the cost.
6. Fine for starting of fire Shs.50,000/=.
7. Fine for destruction of catchments areas Shs.50,000/= .

Any property caught will be taken hold by the concerned authority and get sold in an auction.

5.2.4 Sending trials to court

A trial will be send to the court incase;

1. Suspect refuses to acknowledge his mistakes.
2. Suspect refuses to agree the given punishment.
3. Incase the suspect's trial can not be judged at this level for example hunting an animal reserved by the nation.

CHAPTER SIX: REVENUE.

Every village will monitor the income from resources and various fines in the forest area found in its borders. Incomes from forest resources and various fines will be colleted by natural resource committee accountant.

All the incomes from different royalties and fines will be send to special forest account. Income from resources and various fines will be used in the improvement of village forests. The extra income remaining will be used for other village development activities. Report for income and uses will be read to the village government meetings and village assemblies.

The village will pay royalties of twenty five percent (25%) to Iringa District Council for all the income from forest resources.

CHAPTER SEVEN: REVIEW OF THE MANAGEMENT PLAN

This plan for the management of village forest will continue to be used and all the villagers are supposed to follow it as it was planned. This plan will be reviewed after one year and changes or amendments will be done by zonal coordination committee regarding opinions from village general meetings/assemblies and other stakeholders.

CHAPTER EIGHT: RELATIONSHIP BETWEEN VILLAGE AND VILLAGE, VILLAGES AND DEPARTMENTS

- ? Department of natural resources will represent Iringa District Council and receive reports on implementation of the plan from zonal coordination committee.
- ? Department of natural resources will co-operate with villages to do evaluation on implementation of participatory plan.
- ? Department of natural resources will cooperate with other departments in order to improve villagers economic status concerned in this plan.
- ? Any villager from any village concerned with this plan can get equal services from another village by following regulations put in this plan as a villager from village concerned.
- ? There will be all together meeting zonal coordination committee twice in a year to discuss problems concerning the forest and ways to solve those problems.

CHAPTER NINE: EVALUATION

Evaluation and follow up will be done by cooperating with the villages and experts from forest department regarding the following signs: -

- ? Decrease in fire outbreak events.
- ? Decrease in new farms inside the forest
- ? New residence inside the forest gets controlled.
- ? Supervision of pastures inside the forest
- ? Decrease in uncontrolled tree cutting events
- ? Decrease in illegal hunting events
- ? Decrease of honey harvesting events of in tree and stone caves
- ? Mining activities get controlled
- ? Ends of borders conflicts
- ? Decrease in destruction of catchments areas.

Appendix no.1

ROYALTIES FOR PRODUCTS, RESOURCES AND FOREST SERVICES

NO	SERVICES/RESOURCES	UNIT/NUMBERS/AMOUNT	PRICE
1.	Charcoal	1 bag	500/=
2.	Poles	1 one	50/=
3.	Dry firewood for business	- Lorry	12,000/=
		- Cart	1000/=
4.	Mushroom for business	1 Tin	50/=
5.	Fruits	1 Baobab bag	500/=
		1 Tamarinds fruits bag	2000/=
		Other fruits a tin	100/=
6.	Witch Doctors	In a year	1000/=
7.	Tourism	Per day	20,000/=
8.	Visitors (Tour)	Per day	10,000/=
9.	Scientific research – own benefit		
	Cutting of grasses for business	Per day	10,000/=
10			
	Firewood for brick burning/raw firewood		50/=
11.		- Lorry	10,000/=
		- Cart	2000/=
		- Tractor	7000/=
	Sand, Stones	- (Meter) ³	3500/=
12		- Lorry	3000/=
		- Cart	200/=
		- Tractor	2000/=

13.	Soil	- 1 tin	50/=
14	Trees for	- Cart	200/=
		- Canoes	5000/=
		- Beehives	3000/=
		- Traditional stools for each tree	3000/=
15	Ropes for business	Per day	
16.	Trees for timber	1 'Muwondo'	200/=
		1 'Mtelela'	50,000/=
		1 'Mkora'	15,000/=
		1 Dalbegia species	40,000/=
17.	Trees for craft	Stick	2000/=
18.	Hunting	1	100/=
	- Hare/Rabbit	1	10
	- Tandara	1	00/=
	- Leopard	1	50,000/=
	- Lion	1	500,000/=
	- Gazelle	1	500,000/=
	- Dik dik	1	10,000/=
	- Hippopotamus	1	3,000/=
	- Crocodile	1	100,000/=
	- 'Paa'	1	50,000/=
	- Hyranx	1	3000/=
	- Python	1	500/=
	- 'Funo'	1	10,000/=
	- Parcupine	1	3,000/=
	- Warthog	1	5,000/=
	- bush pig	1	7,000/=
	- 'Mbawala	1	7,000/=
	- Baboon	1	7,000/=
	- Wild goat	1	1000/=
	- Monkey	1	3,000/=
	- Hyena	1	1,500/=
	- 'Fungo'		3,000/=
			3,000/=
17	BIRDS		
	- Guinea fowl	1	1000/=
	- Kwale	1	1000/=
	- Pigeon	1	1000/=
	- 'Ng'wenzi'	1	1000/=
	- 'Hondohondo'	1	1000/=
	- 'Bata Maji'	1	1000/=
	- Owl	1	1000/=
	- Hawk	1	1000/=
	- 'Mwakapinda'	1	1000/=
	- Crow	1	1000/=
	- Eagle	1	10,000/=
	Livestock pasture (goat cow)	Per year	5,000/=

APPENDIX 2

ACTIVITIES FOUND IN THE FOREST ONLY

- **Tree for canoe timber**
- Caves/tourism areas
- Catchments area
- Arabic gum.
- 'Milulu'
- Sharpening stones

Appendix 3

PROBLEMS PRESENT IN THE FOREST VILLAGE BASED

NO	PROBLEM	MAKATAPOR A	MIGO LI	IZA ZI	MAKU KA
1	Fire outbreak		?	?	?
2.	Farming inside the forest	?	?	?	?
3.	Residence inside the forest	?	?	?	?
4.	Pastures inside the forest	?	?	?	?
5.	Uncontrolled tree cutting	?	?	?	?
6.	Illegal hunting	?	?	?	?
7.	Borders	?	?	?	?
8.	Timber harvesting without following regulation	?	?	?	?
9.	Charcoal burning without regulation	?	?	?	
10.	Uncontrolled practicing of art and craft	?	?	?	?
11.	Uncontrolled use of forest roads	?	?	?	?
12.	Destruction of catchments (people, livestock)	?	?	?	
13.	Shifting cultivation	?	?	?	?
14.	Cutting of trees for fencing and area	?	?	?	?
15.	Honey harvesting in tree and stone caves	?	?	?	?

Appendix 4

EVENTS/NEEDS SEEN ON A TOUR TO THE FOREST

NO.	EVENTS	MAKATAP ORA	MIGO LI	IZAZ I	MAKU KA
1.	Charcoal burning	?	?	?	?
2.	Cut of fire wood	?	?	?	?
3.	Cutting of poles	?	?	?	?
4.	Lumbering	?	?	?	?
5.	Canoe building			?	
6.	Collection of sand	?	?	?	
7.	Collection of stones	?	?	?	?
8.	Digging of local medicines	?	?	?	?
9.	Honey harvesting	?	?	?	?
10.	Picking of ropes	?	?	?	?
11.	Beehives making	?	?	?	?
12.	Stools making	?	?	?	?
13.	Yoke harness making	?	?	?	?
14.	Slashing of grasses	?	?	?	?
15.	Illegal hunting	?	?	?	?
16.	Pastures inside the forest (livestock)	?	?	?	?
17.	Building/Animal keeping inside the forest	?	?	?	?
18.	Limestone burning		?		
19.	Farming inside the forest	?	?	?	?
20.	Collection of dry firewood	?	?	?	?
21.	Use of forest roads	?	?	?	?
22.	Catchments area	?	?	?	
23.	Collection of Arabic gum	?	?		
24.	Fruits	?	?	?	?
25.	Vegetables	?	?	?	?
26.	Wild animals	?	?	?	?
27.	Mushrooms	?	?	?	?
28.	Birds	?	?	?	?
29.	Starting of fire	?	?		

Appendix 5

RESOURCES FOUND IN THE FOREST AND IT'S AVAILABILITY CONDITION

NO	NAME OF RESOURCES	MAKATAPO RA	MIGOL I	IZAZI	MAKUK A
1.	Tree for canoe	L.F	S.F	L.F	L.F
2.	Tree for timber	L.F	S.F	L.F	S.F
3.	Dry firewood	A.F	S.F	A.F	A.F
4.	Tree for beehives	L.F	L.F	L.F	L.F
5.	Tree for charcoal	L.F	L.F	A.F	L.F
6.	Sharpening stones	A.F	S.F	S.F	S.F
7.	Trees for poles	A.F	S.F	A.F	A.F
8.	Arabic gum	A.F	L.F	S.F	S.F
9.	Honey	L	L	L	L
10.	Mushrooms	S	S	S	S
11.	Limestone	L	L		
12.	Animals	L	L	L	L
13.	Birds	A	A	A	A
14.	Sand	A	A	A	A
15.	Stones	A	A	A	A
16.	Trees for local medicines	A.F	A.F	A.F	A.F
17.	Local vegetables	A	A	A	A
18.	Grasses for building	L.F	L.F	L.F	L.F
19.	Catchments areas	A	A	L	
20.	Trees for ropes	A.F	A.F	A.F	A.F
21.	Local fruit	A	A	A	A
22.	Trees for yoke harness	L.F	L.F	L.F	L.F
23.	Trees for stools	L.F	L.F	L.F	L.F

S =Scarce

A = Abundant

L = Little

F = Fit for harvesting

N = Not fit for harvesting

Appendix 6

TREE PRESENT ITS AVAILABILITY AND USE

NO.	TREE SPECIES	USES	MAKATAP ORA	MIGOLI	IZAZ I	MAKU KA
1.	'MDAWI'	Medicines and fruit	A.F	A.F	A.F	A.F
2.	'MKAMBALA ,	Charcoal and for building	A.F	A.F	A.F	A.F
3.	'MKINDE'	Canoe and fruits				S.F
4.	'MKOLE'	Fruits sticks & medicine	A.F	A.F	A.F	A.F
5.	'MSAFWE'	Fruits	L.F	L.F	L.F	L.F
6.	'MSELE'	Medicine & color for local dishes	S.F	S.F	S.F	S.F
7.	'MSENA'	Medicine & for building	S.F	S.F	S.F	S.F
8.	'MTUMBA'	Medicine and fruit	L.F	L.F	L.F	L.F
9.	'MTANGATA NGA'	Fruits	S.F	S.F	S.F	S.F
10.	'MIYOMBO'	Firewood & charcoal	S.F	S.F	S.F	
11.	'MKALALA'	Frame and poles	L.F	L.F	L.F	L.F
12.	'MKWATA'	Firewood and fruits	A.F	A.F	A.F	A.F
13.	MHEMI'	Canoes, beehives and timber	S.F	S.F	S.F	S.F
14.	'MSASA'	Firewood and fencing	A.F	A.F	A.F	A.F
15.	'MGONIVINDI ,	Poles				
16.	'MGIHA'	Handles clubs	A.F	A.F	A.F	A.F
17.	'MHAVAVA'	Poles and charcoal	A.F	A.F	A.F	A.F
18.	'MLUNGULU NGU'	Poles medicine	S.F	S.F	S.F	S.F
19.	'MPINGO'	Arts and crafts			S.F	S.F
20.	'MNINGA'	Timber	S.N	S.N	S.N	S.N
21.	'MOTAPONZI'	Medicine	L.F	L.F	L.F	L.F
22.	'MKONGORO'	Canoes, beehive	A.F	A.F	A.F	A.F
23.	'MLANGALI'	Beehives	S.F	S.F	S.F	S.F
24.	'MTELELA'	Firewood, timber	S.F	S.F	S.F	S.F
25.	'MKAPO'	Fruits, sticks	S.F	S.F	S.F	S.F
26.	'MKOLA'	Timber	S.F	S.F	S.F	S.F
27.	'MGANDU'	Fruits, handles	L.F	L.F	L.F	L.F
28.	'MKUNGUGU ,	Firewood, food to animals, hut	A.F	A.F	A.F	A.F
29.	'MTOSI'	Vegetable, sticks, poles	L.F	L.F	L.F	L.F
30.	'MPALULA'	Firewood, for building	A.F	A.F	A.F	A.F
31.	'MFUGALA'	Animal huts, for building	A.F	A.F	A.F	A.F
32.	'MUWONDO'	Timber	L.F	L.F	L.F	L.F
33.	MMUMULI	Medicine	A.F	A.F	A.F	A.F
34.	MNGULUKAN	For building	L.F	L.F	L.F	L.F

	ZIVA					
35.	MVEMBADA NDA	Medicine	S.F	S.F	S.F	S.F
36.	MHWISA	medicine	L.F	L.F	L.F	L.F
37.	MGEGELE	Medicine, pasture	L.F	L.F	L.F	L.F
38.	MSUMAMEL A	Animal feeds	L.F	L.F	L.F	L.F
39.	MSUSU	Beehives and canoes	L.F	L.F	L.F	L.F
40.	BAOBAB	fruits	A.F	A.F	A.F	A.F
41.	MPELEMEH	Fruits	A.F	A.F	A.	A.F
42.	MKWAJU	Fruits	L.F	S.F	L.F	L.F
43.	MBWEGELE	Canoes, stools, fruits,mortars	L.F	L.F	L.F	L.F
44.	MLAMA	Poles, posts, wooden beams	A.F	A.F	A.F	A.F
45.	MTAFUTA	Fruits	A.F	A.F	A.F	A.F

PROPOSALS FOR AMOUNT OF FOREST RESOURCES TO BE TAKEN/HARVESTED

NO	TYPE OF CROP/RESOURCE	MAKATAP ORA	MIGOLI	IZAZI	MAKUK A
1.	Dry firewood for business	Available amount	Available amount	Available amount	Available amount
2.	Raw firewood for brick burning	1875	1875	651	500
3.	Charcoal	1050	1050	391	300
4.	Trees for canoes, beehives, stools	10	10	10	10
5.	Poles	375	375	130	100
6.	Trees for timber	2	2	2	2
7.	Fruits and mushrooms for business	Available amount	available amount	Available amount	Available amount
8.	Sand and stones				
9.	Ropes for business	Available amount	Available amount	Available amount	Available amount
10.	Trees for art crafts	187	187	65	50
11.	Tourism	Available amount	Available amount	Available amount	Available amount
12.	Grasses for business	Available amount	Available amount	Available amount	Available amount
13.	Trees for witch doctors	Available amount	Available amount	Available amount	Available amount
14.	Scientific research	Any number	Any number	Any number	Any number
15.	Visitors (tour)	Any number	Any number	Any number	Any number
16.	Shaperning stones.	Available amount	Available amount	Available amount	Available amount