

Japan International Cooperation Agency

NO. 2

Ministry of Natural Resources and Tourism
Fisheries Division
The United Republic of Tanzania

THE MASTER PLAN STUDY ON FISHERIES DEVELOPMENT IN THE UNITED REPUBLIC OF TANZANIA

DATA BOOK

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SYSTEM SCIENCE CONSULTANTS INC.

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FISHERIES DEVELOPMENT IN
THE UNITED REPUBLIC OF TANZANIA**

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Composition of Final Report

Final Report consists of 3 volumes listed below.

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Abbreviation

ALCOM	Aquaculture for Local Community Development Programme
BMU	Beach Management Unit
CIDA	Canadian International Development Agency
CRDB	Credit Rural and Development Bank
CPUE	Catch Per Unit Effort
DC	District Commissioner
DED	District Executive Director
FD	Fisheries Division
DFO	District Fisheries Officer
DSM	Dar es Salaam
EAC	East African Communities
EEZ	Exclusive Economic Zone
EIA	Environmental Impact Assessment
EU	European Union
FAD	Fish Aggregating Device
FAO	Food and Agriculture Organisation of the United Nations
FINNIDA	Finnish International Development Agency
FO	Fisheries Officer
FRP Boat	Fibre Reinforcement Plastic Boat
GDP	Gross Domestic Production
GPS	Global Positioning System
HACCP	Hazard Analysis Critical Control Point
HIPC	Heavily Indebted Poor Countries
IMF	International Monetary Fund
IUCN	International Union for the Conservation of Nature
JICA	Japan International Cooperation Agency
JOCV	Japan Overseas Cooperation Volunteers
LTR	Lake Tanganyika Research
LVEMP	Lake Victoria Environmental Management Project
LVFO	Lake Victoria Fisheries Organisation
LVFRP	Lake Victoria Fisheries Research Project
MNRT	Ministry of Natural Resources and Tourism
NGO	Non-Governmental Organisation
NIGP	National Income Generation Programme
NORAD	Norwegian Agency for Development Cooperation
OA	Office Automation
OJT	On the Job Training
PRSP	Poverty Reduction Strategy Paper
RAS	Regional Administrative Secretary
RIPS	Regional Integrated Project Support
SACCOS	Savings and Credit Cooperative Societies
SADC	South African Development Community
SIDO	Small Industry Development Organization
TAC	Total Allowable Catch
TAFICO	Tanzania Fisheries Cooperation
TAFIRI	Tanzania Fisheries Research Institute
TCZCDP	Tanga Coastal Zone Conservation & Development Programme
THA	Tanzania Harbour Authority
TRA	Tanzania Revenue Authority
UNCDF	United Nations Capital Development Funds
UNDP	United Nations Development Programme
UNIDO	United Nations Industrial Development Organization
UNFPA	United Nations Population Fund
VETA	Vocational Education and Training Authority
WWF	World Wildlife Fund

Currency

Annual currency rate shown below is used in the report.

	1995	1996	1997	1998	1999	2000	2001
1US\$: Tsh.	574.8	580.0	612.1	664.7	744.8	800.44	876.62
1US\$: ¥	94.1	108.8	121.0	130.9	113.9	107.06	118.33
¥1: Tsh.	6.11	5.33	5.06	5.08	6.54	7.48	7.41

Source: The rates between US\$ and Tsh. for 2000 and 2001 are referred from Bank of Tanzania.

The rate between US\$ and ¥ is referred from IMF for 2000 and Bank of Japan for 2001.

The rests are referred from World Development Indicators.

General Socio-economic Information of the United Republic of Tanzania

General Information		
Area	945,087km ² (land: 886,037 km ² , sea: 59,050 km ²)	The World Factbook 2000
Capital City	Dar es Salaam (Capital is now being shifted to Dodoma, yet it is still recognised as Dar es Salaam internationally)	The World Factbook 2000
Population	33.95 million (2000)	UNFPA
Pop. Growth Rate	2.4% (1999)	WDI database, April 2001
Life Expectancy	45 years old (1999)	WDI database, April 2001
Religion	Christianity 45%, Islam 35%, Traditional Religion 20%	The World Factbook 2000
Language	Swahili (mother language), English (official language)	MoFA HP
Illiteracy rate	Male : 16.0%, Female : 34.3% (1999)	WDI database, April 2001
Independence	1961 : the Republic of Tanganyika (Main Land) 1963 : the Republic of Zanzibar 1964 : the United Republic of Tanzania	MoFA HP
Political Information		
Gov. system	Republic	The World Factbook 2000
Head of State	President Benjamin William Mkapa, Re-elected in Dec. 2000	The World Factbook 2000
Parliament	Single-chamber System (5 year term), Parliament member : 295	MoFA HP
Government	1) Prime Minister: Frederick Tluway Sumaye 2) Foreign Minister : Jakaya Mrisho Kikwete	MoFA HP
Economic Information		
GDP	US\$ 9.0 billion (2000)	WDI database, April 2001
Major Industry (GDP%)	Agriculture 44.8%, Manufacturing Industry 15.4%, Service 39.8% (2,000)	WDI database, April 2001
GDP Growth Rate	5.2% (2000)	WDI database, April 2001
Inflation Rate	6.0% (2000)	WDI database, April 2001
GNP per Head	220 (1998)	World Bank
Currency	Tanzania Shillings (Tsh.)	
Economic Cooperation		
Major Donor Countries	UK 20.6%, Germany 14.2%, Japan 10.7%, the Netherlands 10.3%, Denmark 9.0% (1997)	MoFA HP
Aid from Japan	1) Loan assistance (until 1999, EN) 40.3 billion Yen 2) Grant aid (until 1999, EN) 107.9 billion Yen 3) Technical cooperation (until 1999, JICA) 43.2 billion Yen	MoFA HP

A. TERMS OF REFERENCE

**SUB-CONTRACTED SURVEY
SOCIO-ECONOMICS IN FISHERIES COMMUNITIES**

THE MASTER PLAN STUDY ON FISHERIES DEVELOPMENT
Sub-contracted Survey: Socio-economics in Fisheries Communities
TERMS OF REFERENCE

1. Background

The Master Plan Study on Fisheries Development (here after Fisheries master plan project) launched in January 2001. The project is executed and funded by Japan International Cooperation Agency.

The expected outputs of the project are the fisheries development master plan which provide guidance to the government and donors countries for fisheries policy implementation, covering whole Tanzanian mainland. The project will also be expected to emphasize immediate priorities and necessary actions for accelerating growth of the sector and improvement of fishers lives condition in coming decade.

In order to develop this master plan, the project will conduct socio-economic survey in the early stage of the study by hiring local consultants. This survey is expected to provide both quantitative and qualitative analysis on the sector situation and fishers life which is necessary for the master plan.

2. Activities of local consultants

- (a) To undertake household and marketing survey.
- (b) To prepare the report that will comprise an analysis of findings and recommendation for selected issues as included in the objectives.
- (c) To undertake activities outlined in the methodology section.

3. Objectives of the survey

The followings are main objectives of the survey:

- To provide data for measuring living condition of household in fishing communities and different fisheries groups, with a view of making fisheries policy for some development issues.
- To provide data to be used in investigating saving and credit scheme for fishers group
- To supply data of fishers opinion for fisheries development and government support
- To supply data which are used in identifying poverty line of fishers household
- To provide information of fish consumption characteristics of consumers
- To provide information for forecasting fish demand for consuming market, with a view of quality, price, species, processing type, etc.

4. Methodology

- (a) Review of literature and official documents
- (b) Household survey, Market survey and consumer survey
- (c) Focus group discussion (using leading questions)
- (d) Physical surveys (observation)
- (e) Use of informants

5. Component of survey questionnaire

The questionnaire should include the following elements:

(a) Village inventory questionnaire (community leader, old fishers, etc)

- Population/housing
- Economic activities
- Transportation
- Basic facilities/utilities
- Fisheries facilities
- Major problems of the community

(b) Fisher household questionnaire (fishermen, processors)

- General household information
- Economic activities (taking account into relation with farming business)
- Household assets
- Fisheries and other incomes
- Household expenditure
- Food consumption expenditure
- Opinions on ;
formation of co-operative society (saving and credit)
Building community fisheries facility for common use, basic facilities by community fund
training/education
- Major problems

(c) Fish marketing questionnaire (fish traders)

- Fish trading activity
- Fish pricing
- Fish origin, supply and destination
- Market demands (quality, quantity, species, etc.)
- Opinion on
“same as fishers opinion part”
- Major problems

(d) Fish consumption questionnaire (consumers)

- Incomes
- Household expenditure
- Food consumption expenditure
- Fish consumption habits, preference, its reason, others

6. Site selection

Survey site has been prioritized as shown in appendix 1. But, the consultants could make counter proposal for the survey village, considering:

- Geographical representation
- Accessibility
- Active fishing community

7. Number of samples

- | | |
|----------------------------------|---|
| (a) Village inventory survey | :sampled one from each village or 70-75 respondents each village. |
| (b) Fisher household survey | :sampled about 5% of fishers household from each village |
| (c) Fish marketing questionnaire | :sampled 10-50 from each village/market site (depending on Number of fish traders) |
| (d) Fish consumption survey | :sampled 100 from each consuming town (household, hotels, schools, hospitals, etc.) |

8. Survey period and reporting

Time table of survey and reporting are as follows:

- | | |
|------------------|---|
| 01 April 2001 | Consultant contract signed |
| 01-15 April 2001 | Pre-test and review of questionnaire, training and preparation field trip |
| 16 April 2001 | initiation of interview survey |
| 01 July 2001 | Submission of first draft report |
| 01-30 July 2001 | Review of draft report and feedback comments made by JICA |
| 01 August 2001 | Submission of final report |

In the analysis of their findings it is anticipated that the consultants will take in to account past and present situation through reviewing the key documents including:

- Socio-economic survey carried out by ;
 - Lake Victoria Fisheries Research Project
 - Lake Tanganyika Fisheries Research Project
 - Integrated Fisheries Development in Rural Fishing Village, Kagera Region
- Household Budget Survey 1991/92
- Sample frame survey for Lake Victoria 2000
- Fisheries Division, annual reports
- Others

Report ownership: the report is the property of JICA.

9. Scheduling of payments

The following payments will be made:

40% of full contract fee upon signing

30% of full contract fee upon completion of all field survey

20% of full contract fee upon submission of draft report

10% of full contract fee upon submission of final report

Appendix 1: Tentative survey site expected

Region	District	Village	Village inventory	Fishers household	Marketing	Consumption
Lake Victoria						
Mwanza	1.Ukerewe	Rugezi	X	X		
	2.Sengerema	Nyakalio, Nkome	X	X		
	3.Mwanza	Kirumba market			X	
		Town				X
Mara	4.Tarime	Sota/Nyangombe	X	X		
	5.Musoma	Bwai	X	X		
		Town			X	X
Kagera	6.Muleba	Katunguru/kinagi	X	X		
	7.Biharamulo	Mganza	X	X	X	
	8.Bukoba	Nyamkaji	X	X		
Lake Tanganyika						
Kigoma	9.Kigoma	Bangwe	X	X		
		Town			X	X
Rukuwa	10.Sumbawanga	Kipili	X	X		
Lake Nyasa						
Mbeya	11.Kyela	Kyela	X	X	X	
	12.Mbeya	Mbeya	X			X
Marine Coastal						
Tanga	13.Pangani Muheza	Pangani, Kigombe	X	X	X	
	14.Tanga	Town				X
Coast	15.Bagamoyo	Bagamoyo	X	X		
DSM	16.Kinondini/ Ilala	Kunduchi/ Banda beach	X	X	X	
		Town				X
Lindi	17.Lindi/ Kilwa	Machinga bay/ Kilwa	X	X		
Mtwara	18.Mtwara	Msimbati	X	X	X	
		Mtwara town				X

B. QUESTIONNAIRES

**SUB-CONTRACTED SURVEY
SOCIO-ECONOMICS IN FISHERIES COMMUNITIES**

**Fisheries Development Master Plan Project in the United Republic of Tanzania
The Socio-Economic Survey of Fishing Communities in Tanzania Mainland**

Form 1: FISHER HOUSEHOLD QUESTIONNAIRE

Enumerator's name:

Date:

Starting Time:

SECTION 1: LOCATION AND RESPONDENT'S PERSONAL HISTORY

1.1 Region	1.2 District	1.3 Division	1.4 Ward	1.5 Village

1.6 Name of respondent

1.7 Age.....
(put 99 if he/she doesn't remember)

1.8 Sex

1. M
2. F

1.9 Religious Affiliation

1. Muslim
2. Christian
3. Traditional
4. Atheist
5. Other (specify)

1.10 Level of Education

1. None
2. Primary School (lower) Std.I-IV
3. Primary School Std. VII/VIII
4. Secondary 1 - Form IV
5. Secondary 2 Form VI
6. Post Secondary/Certificate
7. Diploma
8. Degree
9. Functional literacy/ Elimu ya Watu Wazima

1.11 Marital Status

1. Single
2. (a) Married 2.(b) If male, how many wives?
3. Divorced
4. Separated
5. Widowed

- 1.12 (a) Were you born at this place?
 1. Yes 2. No
- 1.12 (b) If no, when did you shift to this place(year).
- 1.12 (c) Where did you shift from?
- 1.13 Household size (number)

1.14 Household Members

Please help us fill this table about your household (enumerator indicate that this information is optional and contended with knowing overall family size and composition).

No	A Name Start with respondent	B Sex Male (1) Female (2)	C Relationship with head of household Head of household ..01 Spouse.....02 Son.....03 Daughter04 Brother05 Sister06 Father07 Mother08 Other family09 Housemate (not family) 10 Other (not family)11	D Adult (18 yrs old or more) ..01 Less than 18 years of age02	E Education Under school age....01 None.....02 Primary complete03 Primary incomplete....04 Secondary Complete.....05 Secondary incomplete.....06 University complete.....07 University incomplete.....08 Postgraduate....09	F Occupational status (select only one) Self employed01 Student02 Employed/have permanent work ...03 Retired04 Unemployed05 Casual worker06 None of the above 07 Don't know99 Housewife.....08
1	Respondent					
2						
3						
4						
5						
6						
7						
8						
9						
10						

SECTION 2: HOUSING AND FACILITIES

(Interviewer to make assessment and report the following)

2.1 Floor

1. Earth
2. Concrete, cement, tiles, timber
3. Other (specify)

2.2 Walls

1. Poles (including bamboo), branches, grass
2. Poles and mud, mud and stones
3. Mud only
4. Mud bricks
5. Baked/burnt bricks
6. Concrete, cement, stone
7. Other (specify)

2.3 Roof

1. Grass leaves, bamboo
2. Mud and grass
3. Concrete, cement
4. Metal sheets (GCI)
5. Asbestos Sheets
6. Tiles
7. Other (specify)

2.4 Tenure

1. Owned by household
2. Lived in without paying any rent
3. Rented privately
4. Rented from public real estate company (NHC, NSSF, PPG etc)
5. Rented from employer including Government, Parastatal/private/Religious Organization (excluding NHC, NSSF PPF etc).
6. Rented from employer including Government, Parastatal/Private at a subsidized rent
7. Rented from relative at a subsidized rent
8. Other (specify)

2.5 Electricity

1. Yes
2. No

2.6 Toilet Facilities

1. No toilet
2. Flush Toilet
3. Pit Latrine
4. VIP
5. Other (specify)

2.7 Major fuel used for cooking

1. Electricity
2. Solar
3. Gas (industrial)
4. Gas (biogas)
5. Parafin
6. Coal
7. Charcoal
8. Firewood
9. Other (specify)

2.8 Main Drinking Water Supply

1. Private piped water in housing unit
2. Private piped water outside housing unit
3. Piped water in neighbour's housing unit
4. Piped water on Community supply
5. Rain catchment tank
6. Public well (protected)
7. Public well (un-protected)
8. Private well (protected)
9. Private well (un-protected)
10. Spring (protected)
11. Spring (not protected)
12. River, dam, lake etc.
13. Buying from water vendors
14. Other (specify)

2.9 Does your household own any of the following:

Items/Assets	How many (ITEM) does your household own	If you wanted to sell this/these (ITEM)... today, how much money would you receive for it
	Number	Tshs.
1. Radio and Radio Cassette		
2. Telephone		
3. Refrigerator or freezer		
4. Sewing Machine		
5. Television		
6. Video		
7. Chairs		
8. Tables		
9. Watches		
10. Beds		
11. Cupboards		
12. Lanterns		
13. Computer		
14. Kitchen Utensils		
15. Mosquito net		
16. iron (charcoal or electric)		
17. Electric/gas stove		

18. Other stove		
19. Water-heater		
20. Record/cassette player, tape recorder		
21. Complete music system		
22. Books (not school-books)		
23. Motor Vehicles		
24. Motor cycle		
25. Bicycle		
26. Cart		
27. Wheelbarrow		
28. Livestock		
29. Poultry		
30. Outboard engine		
31. Donkeys		
32. Fields/Land		
33. House(s)		
34. Dish antenna/decoder		
35. Hoes		
36. Spraying machine		
37. Water pumping set		
38. Reapers		
39. Tractor		
40. Trailer for tractors etc.		
41. Plough etc.		
42. Harrow		
43. Milking machine		
44. Harvesting and threshing machine		
45. Hand milling machine		
46. Fertilizer distributor		
47. Beehives		
48. Wells		
49. Other (specify)		
	Total	

SECTION 3 : HOUSEHOLD ECONOMY

- 3.1 Major Economic Activities/Main Source of Income for a household
1. Agriculture/Livestock
 2. Fishing (Employer)
 3. Fishing Employee)
 4. Fishing (Family business)
 5. Fish Processing
 6. Fish Vendors/Traders
 7. Partly agriculture and Fisheries
 8. Fishing and Fish Processing
 9. Employed/Have permanent work
 10. Service Providers (shopkeepers, local pubs, hoteliers)
- 3.2 (Do you have) any other lesser sources of income/complimentary
1. None
 2. Rent
 3. Craftmanship
 4. Trade/Business
 5. Transport
 6. Agricultural-related activities
 7. Market vendor
 8. Other (specify).....
- 3.3a1 How much money/income does your household earn per month (from fishing only).
1. Less than Tshs.10,000/=
 2. 11,000/= - 20,000/=
 3. Tshs.21,000/= - 30,000/=
 4. Tshs.31,000/= - 60,000/=
 5. Tshs.61,000/= - 100,000/=
 6. Tshs.101,000/= - 150,000/=
 7. Tshs.151,000/= - 200,000/=
 8. Tshs.201,000/= - 300,000/=
 9. Tshs. 301,000/= - 500,000/=
 10. Above Tshs.501,000/= -
 11. Reluctant to divulge.
- 3.3a2 How much money/income does your household earn per month (from all other sources apart from fishing)
- | | | | |
|-----|----------------|---|-----------|
| 1. | Less than Tshs | - | 10,000/= |
| 2. | 11,000/= | - | 20,000/= |
| 3. | 21,000/= | - | 30,000/= |
| 4. | 31,000/= | - | 60,000/= |
| 5. | 61,000/= | - | 100,000/= |
| 6. | 101,000/= | - | 150,000/= |
| 7. | 151,000/= | - | 200,000/= |
| 8. | 201,000/= | - | 300,000/= |
| 9. | 301,000/= | - | 500,000/= |
| 10. | Above | - | 501,000/= |

11. Reluctant to divulge

3.3b Please give us your minimum and maximum monthly income:

3.3.b1. Minimum - Tshs _____

3.3.b2. Maximum - Tshs _____

3.4 How much did your household spend on the following items in the past month?

Item	Tshs.
1. Food	
2. House/rent	
3. Furnitures	
4. Clothing	
5. School Fees and related expenses	
6. Medical bills	
7. Alms-worship places/poor etc	
8. Alcoholic beverages	
9. Tobacco/cigarettes	
10. Entertainments/sports	
11. Remittance at home	
12. Transport	
13. Kerosene	
14. Fuel motor/Boat engine oil	
15. Rent for fishing gears	
16. Levies	
17. Savings	
18. Other Incidentals	

3.5 Do members of this household operate saving or current accounts?

3.5a Members with saving account

3.5b Members with current account

3.6a Has any member of the household taken a loan during the last 12 month?

1. YES

2. NO

3.6b If yes, amount in Tshs.....

3.6c If yes, where did He/She get the loan from?

.....

3.7a Does any member participate in an informal savings group systems?

1. YES

2. NO

3.7b If yes, amount after each round Tshs.....

3.8 How do you compare the overall economic situation of the HOUSEHOLD today with one year ago?

1. Much worse now
2. A little worse now
3. Same
4. A little better now
5. Much better now
6. Don't know

3.9 How does this household compare with the others in this COMMUNITY now?

1. Much worse
2. A little worse
3. Same
4. A little better
5. Much better
6. Don't know

3.10 (a) Do you expect any changes for the future

1. Yes
2. No (go to 3.11)

3.10 (b) If yes, what changes?

.....

3.11 Given the future prospects, what do you feel will be your position in the next three years?

1. Much worse
2. A little worse
3. Same
4. A little better
5. Much better
6. Don't know

4.5 (e) 2. About 5 years ago hours.

B. Sale/use of catch after a fishing trip/night

4.6a How do you sell your catch/share of catch?

1. Beach traders
2. Family members to sell
3. Local market
4. Consumer direct
5. Fishing company
6. Other (specify)

4.6b Most sales to (as in 4.6a)

4.7 How do you rely on traders?

1. For boat/gear
2. For loans
3. None

4.8a Do you generally sell to the same trader?

1. Yes
2. No

4.8 b Why/why not? (specify)

.....

4.9 Do you/your household members ever process fish caught?

1. Yes
2. No (go to section C)

4.10 Specify the three most important types of fish processed:

	Name	Used home	Used home and sale	Sale
Type 1				
Type 2				
Type 3				

C : Income estimates, other work and land ownership

4.11 What other work/business do you have besides fishing?

1. Farming for food only
2. Farming for food and cash
3. Salary job
4. Business
5. None
6. Other (specify)

4.12 Thinking over the past year, about how much money did you earn from fishing during:

- 4.12 a 1 good months (Tshs)
 4.12 a 2 Indicate good months.....(1 = Jan, 2 = Feb...)
 4.12 b 1 poor months (Tshs)
 4.12 b 2 Indicate bad months.....(1 = Jan, 2 = Feb...)

4.13a Do you own any land?

1. Yes
2. No (go to section 5)

4.13b If yes, where is the land (name the place)

4.15c How many acres do you own.....acres.

SECTION 5 :FOOD SECURITY

5.1 How many meals does your household usually have per day?

Number

5.2 In the past week, how many days and how much did the household consume the followings?

	days	kg	Tsh.
Beef			
Goat			
Pork			
Chicken			
Egg			
Fresh fish			
Dagaa			
Other Fish			

5.3a Within this 24 hours, which of the following items did you consume.....
For Lunch

Item	0 = NO 1 = Yes
Beef	
Goat	
Pork	
Chicken	
Egg	
Fresh Fish	
Dagaa	
Other Fish	
Others	

5.3b For Supper?

Item	0 = No 1 = Yes
Beef	
Goat	
Pork	
Chicken	
Egg	
Fresh Fish	
Dagaa	
Other Fish	
Others	

SECTION 6 : ENVIRONMENTAL AND HEALTH CONDITION

6.1 Environmental Sanitation and Personal Hygiene:

(a) Interviewer to assess general cleanliness situation and rank as:

1. very good
2. good
3. satisfactory
4. bad
5. very bad

6.2 What are the major health problems/diseases in your household?

1. STDs
2. Cholera
3. Dysentery
4. Diphtheria
5. Typhoid
6. Other abdominal problems
7. Colds/coughs
8. Respiratory problems
9. TB
10. Malaria
11. HIV/AIDS
12. Schistomiasis
13. Elephantiasis
14. Leprosy
15. Others name.....

6.3 Has any member of your household family contracted any of these in the last one month?

1. STDs
2. Cholera
3. Dysentery
4. Diphtheria
5. Typhoid
6. Other abdominal problems
7. Colds/coughs
8. Respiratory problems
9. TB
10. Malaria
11. HIV/AIDS
12. Schistomiasis
13. Elephantiasis
14. Leprosy
15. None
16. Others (specify)

6.4 Has any member from your household family died of any of following disease in the last one month or six months - one year (state number)

	One month	Six months	One year
STDs			
Cholera			
Dysentery			
Typhoid			
Other abdominal problems			
Cold/Coughs			
Respiratory problems			
TB			
Malaria			
HIV/AIDS			
Schistosomiasis			
Leprosy			
Other (name)			

6.5 Have you heard or are you aware of HIV/AIDS

1. YES
2. NO
3. Reluctant to answer

6.6 If ever heard about HIV/AIDS from whom or where did you hear about it:

1. spouse
2. parents
3. peers
4. worship place
5. press/mass media
6. family planning NGOs/institution
7. special national campaign
8. Political leaders
9. Others
10. Can't remember

6.7 Do you know how HIV/AIDS is transmitted?

1. Does not know
2. Sharing/unsterilized syringes
3. Contact with patient/sick person
4. Kissing
5. Sexual intercourse
6. Bad omen
7. God's curse
8. Sharing cigarettes with patient
9. Reluctant to answer
10. Other (name them).....

6.8 Do you use any family planning methods?

1. YES
2. NO
3. Reluctant to answer
4. Does not/has never had any sexual intercourse

6.9 Which methods do you use?

1. Contraceptive
2. Protective
3. Other s (specify).....
4. Reluctant to answer

6.10 Are there any health or Family Planning Education providers in your community?

1. YES
2. NO
3. Don't know

6.11a Have you ever experienced deaths of your own children who died under age 5 ?

1. Yes
2. No

6.11b If yes, how many?.....

SECTION 7 :PROBLEMS AND OPINIONS

7.1 Can you name/list any major problems that this community faces:

1. Transport means *not reliable*
2. Transport - roads *not reliable/poor and only seasonal*
3. Lack of medical/health facilities
4. Lack of primary school
5. Lack of secondary school
6. Lack of *reliable market for our products*
7. High level of inflation
8. Security Problem
9. Conflict with big/commercial fishermen
10. Lack of cooperation from fisheries officials]
11. Poor sanitation at fish landing sites
12. Too much taxes for our produce
13. Not involved in decisions about our businesses and other activities
14. Confiscation of our fishing/working gear by government officials
15. Confiscation/destruction of gear by big fishermen
16. Thefts of our working gears
17. Lack of cooperative institution
18. General Poverty
19. Lack of credit facilities
20. Very high prices of our various gears and/or other working equipment
21. Periodic epidemics e.g. malaria, cholera, typhoid, dysentery, HIV/AIDS/STDs.
22. Cheating practices by buyers
23. Lack of safe water
24. Other problems (name them)

.....
.....

7.2 Opinions on:

1. Formation of Cooperative Society (saving and credit)
.....
.....
2. Building of Community fisheries facilities for common use, basic facilities by common fund.
.....
.....
3. Training and Education
.....
.....

4. Relationship of Fisheries Officers and the Community and other fisheries stakeholders
.....
.....
5. Relationship between big fishing firms/industries and artisanal fishermen
.....
.....
6. Management of the Lakes/Marine ecosystem and resources
.....
.....

SECTION 8: PROBLEMS AND OPINIONS

(For the wife to respond; if not head of household)

- 8.1 Can you name/list any major problems that this community faces:
1. Transport means not reliable
 2. Transport - roads not reliable/poor and only seasonal
 3. Lack of medical/health facilities
 4. Lack of primary school
 5. Lack of secondary school
 6. Lack of reliable market for our products
 7. High level of inflation
 8. Security Problem
 9. Conflict with big/commercial fishermen
 10. Lack of cooperation from fisheries officials]
 11. Poor sanitation at fish landing sites
 12. Too much taxes for our produce
 13. Not involved in decisions about our businesses and other activities
 14. Confiscation of our fishing/working gear by government officials
 15. Confiscation/destruction of gear by big fishermen
 16. Thefts of our working gears
 17. Lack of cooperative institution
 18. General Poverty
 19. Lack of credit facilities
 20. Very high prices of our various gears and/or other working equipment
 21. Periodic epidemics e.g. malaria, cholera, typhoid, dysentery, HIV/AIDS/STDs.
 22. Cheating practices by buyers
 23. Lack of safe water
 24. Other problems (name them)
.....
.....

8.2 Opinions on:

1. Formation of Cooperative Society (saving and credit)
.....
.....
2. Building of Community fisheries facilities for common use, basic facilities by common fund.
.....
.....
3. Training and Education
.....
.....
4. Relationship of Fisheries Officers and the Community and other fisheries stakeholders
.....
.....
5. Relationship between big fishing firms/industries and artisanal fishermen
.....
.....
6. Management of the Lakes/Marine ecosystem and resources
.....
.....

8.3 How do you compare the overall economic situation of the HOUSEHOLD today with one year ago?

1. Much worse now
2. A little worse now
3. Same
4. A little better now
5. Much better now
6. Don't know

8.4 How does this household compare with the others in this COMMUNITY now?

1. Much worse
2. A little worse
3. Same
4. A little better
5. Much better
6. Don't know

Ending time:

**Fisheries Development Master Plan Project in the United Republic of Tanzania
The Socio-Economic Survey of Fishing Communities in Tanzania Mainland**

Form 2: CONSUMER SURVEY

Enumerator's name:

Date:

Starting Time:

SECTION 1: LOCATION AND RESPONDENT'S PERSONAL HISTORY

1.1 Region	1.2 District	1.3 Division	1.4 Ward	1.5 Village

1.6 Name of respondent

1.7 Age.....
(put 99 if he/she doesn't remember)

1.8 Sex

1. M
2. F

1.9 Religion Affiliation

1. Muslim
2. Christian
3. Traditional
4. Atheist
5. Other (specify).....

1.1 Level of Education

1. None'
2. Primary School (lower) Std.I-IV
3. Primary School Std. VII/VIII
4. Secondary 1 - Form IV
5. Secondary 2 Form VI
6. Post Secondary/Certificate
7. Diploma
8. Degree
9. Functional literacy/Elimu ya Watu Wazima

1.2 Marital Status

1. Single
2. (a) Married 2 (b) If male, how many wives?.....
3. Divorced
4. Separated
5. Widowed

1.3 Household size (number)

1.4 Household Members

Please help us fill this table about your household (enumerator indicate that this information is optional and contended with knowing overall family size and composition).

No	A Name	B Sex	C Relationship with head of household	D Age	E Education	F Occupational status (select only one)
	Start with respondent	Male (1) Female (2)	Head of household ..01 Spouse.....02 Son.....03 Daughter04 Brother05 Sister06 Father07 Mother08 Other family09 Housemate (not family) 10 Other (not family)11	0 - 5 ...01 6-18 ...02 18-64.. 03 over 64 04	Under school age....01 None.....02 Primary complete03 Primary incomplete....04 Secondary Complete.....05 Secondary incomplete.....06 University complete.....07 University incomplete.....08 Postgraduate....09	Self employed01 Student02 Employed/have permanent work ...03 Retired04 Unemployed05 Casual worker06 None of the above 07 Don't know99 Housewife.....08
1	Respondent					
2						
3						
4						
5						
6						
7						
8						
9						
10						

SECTION 2 :FISH PREFERENCE

2.1 Do you eat fish?

- 1. YES
- 3. NO

2.2 If YES, which type of fish do you like?

List up the top 3 preference.

- 1. (most preferred)
- 2. (second preferred).....
- 3. (third preferred).....

2.3 If NO, explain the reasons behind (including) if you do not eat only certain types of fish)

Socio-cultural reasons:

.....

Religious reasons:

.....

Economic reasons:

.....

Other reasons

.....

2.4 The ranking of the preference of the animal food.

Type of Food	Rank
Beef	
Goat	
Pork	
Chicken	
Egg	
Fresh Fish	
Dagaa	
Other Fish	

SECTION 3: FISH CONSUMPTION

3.1 How often does your household buy fish?

	Per week	OR	Per month
Fresh fish			
Dagaa			
Salted/Dried fish			
Fried Fish			

3.2 How much fish does your household buy per shopping?

	kg	Tshs.
Fresh Fish		
Dagaa		
Salted/Dried Fish		
Fried Fish		

3.3 How do you get your fish?

			How far from your house
1.	Fishing by ourselves	Km	
2.	At the market	Km	
3.	From Peddler	Km	
4.	Others	Km	

3.4 In the past week, how many days and how much did the household consume the followings?

	Days	Kg/pcs	Tshs
Beef			
Goat			
Pork			
Chicken			
Egg			
Fresh Fish			
Dagaa			
Other Fish			

3.5 Within the last 24 hours, which of the following items did you consume....
For Lunch?

Item	1 = Yes 2 = No
Beef	
Goat	
Pork	
Chicken	
Egg	
Fresh Fish	
Dagaa	
Other Fish	
Others	

For Supper

Item	1 = Yes 2 = No
Beef	
Goat	
Pork	
Chicken	
Egg	
Fresh Fish	
Dagaa	
Other Fish	
Others	

3.6 How much did your household spend on food last month?
Tshs.....

SECTION 4 :ECONOMIC ACTIVITIES AND INCOMES

4.1 What are the main income sources of the household?

Which is the household's main source of cash income?

(Enter Code)

1. Sales of food crops
2. Sales of livestock
3. Sales of livestock products
4. Sales of cash crops
5. Business income.....
6. Salaries in cash
7. Other casual cash earning
8. Fishing
9. Cash remittances
10. Other (specify).....

4.2(a) How much money/income do you earn per month.

1. Less than Tshs.10,000/=
2. About 11,000/= - 20,000/=
3. About Tshs.21,000/= - 30,000/=
4. About Tshs. 31,000/= - 60,000/=
5. About Tshs.61,000/= - 100,000/=
6. About Tshs.101,000/= - 150,000/=
7. About Tshs.151,000/= - 200,000/=
8. About Tshs.201,000/= - 300,000/=
9. About Tshs.301,000/= - 500,000/=
10. Above Tshs.501,000/=
11. Reluctant to divulge
12. Varied.

4.2b Please give us your minimum and maximum monthly income:

4.2b1 Minimum Tshs.....

4.2b 2 Maximum Tshs.....

SECTION 5 :PROBLEMS AND OPINIONS

5.1 If you income increases, will you consume more fish?

.....
.....

5.2 What are the major hindrances for eating fish?

.....
.....

5.3 What is your opinion on the fish quality that you obtain?

.....
.....

5.4 Have you ever thought about nutritious value of fish?

.....
.....

5.5 Dagaa is known as the most economically efficient source for the nutrition.
Do you think you will eat Dagaa more?

.....
.....

Ending time:.....

FISHERIES DEVELOPMENT MASTER PLAN PROJECT
In the United Republic of Tanzania
The Socio-Economic Survey of Fishing Communities in Tanzania Mainland

Form 3: MARKETING SURVEY

Enumerator's Name

Dare:

Starting Time:

SECTION 1: LOCATION AND RESPONDENT'S PERSONAL HISTORY

1.1 Region	1.2 District	1.3 Division	1.4 Ward	1.5 Village

1.6 Name of respondent

1.7 Age.....
 (put 99 if he/she does not remember)

1.8 Sex
 1. M
 2. F

1.9 Religion Affiliation
 1. Muslim
 2. Christian
 3. Traditional
 4. Atheist
 5. Other (specify)

1.10 Level of Education
 1. None
 2. Primary school (lower) Std I-IV
 3. Primary School Std. VII/VIII
 4. Secondary 1- Form IV
 5. Secondary 2-Form VI
 6. Post Secondary/Certificate
 7. Diploma
 8. Degree
 9. Functional Literacy/Elimu ya Watu Wazima

1.11 Marital Status

1. Single
2. (a) Married-How many wives
(b) If male, how many wives?
3. Divorced
4. Separated
5. Widowed

1.12 (a) Were you born at this place?

1. YES
2. NO

1.12 (b) If No, when did you shift to this place (year) ?

1.12 (c) Where did you shift from?..... (name the place)

1.13 Household size (number)

1.14 Household Members

- 1.14a Members aged 0 - 5
- 1.14b Members aged 6 - 18
- 1.14c Members aged 18 - 64
- 1.14d Members aged over 64

SECTION 2: RESPONDENT/UNIT IDENTIFICATION

2.1 What is your usual occupation?

1. Processing
2. Processing and trading
3. Trading
4. Fisher/trader
5. Others (specify)

2.2 Type of product dealt with

1. Fresh fish
2. Dried fish
3. Smoked fish
4. Other type (specify).....

2.3 What are the top three most frequent species handled:

1. Most
2. Second most.....
3. Third most.....

B. Supply sources/sales:

3.5a Where/from whom do you usually get your supplies of fish from?

1. Own family/fishing unit
2. Buy from fishers
3. Buy from processors
4. Buy from another trader
5. Buy from a fishing company
6. Other (specify)

3.5(b) Most supplies is from _____ (as in 3.5(a))

3.6(a) Do you mostly buy your fish from particular fishers or processors?

1. Yes
2. No

3.6(b) Why/Why not? Specify _____

3.7 (a) How often do you conduct fish trading per month?

..... (number of transactions)

3.7 (b) How much fish on average do you handle per transaction?.....kg.

3.8 When you get supplies, do you buy:

1. By cash
2. On credit

3.9(a) Do you ever help those you buy from with things like equipment (boat/gear, kilns etc) or loans?

YES 2, NO (go to 3.10)

3.9(b) If yes, specify your help:

3.10(a) Where/to whom do you usually sell your consignment of fish?

1. Local traders
2. Non-local traders
3. Direct to consumers
4. Local retail market
5. Fishing company
6. Other (specify) _____

D. Land and productive assets

3.15(a) Do you own any land?

1. Yes 2. No (go to 3.16)

3.15(b) If yes, how many acres? _____ acres

3.16 Do you own or have part share in any of the following items?

Owned/shared equipment:	No	Owned %	Item age Yrs	Item present total value	Cash purchase		Credit purchase		Credit type code
					All	Part	All	Part	
Car/vehicles									
Boats (specify type)									
Freezers									
Cooling boxes									
Drying items									
Frying items									
Diving gear									
Bicycle									
Other (specify)									
Owned/shared gear:									

SECTION 4: INCOME AND EXPENDITURE

4.1a How much money/income do you earn per month (from all sources)

1. Less than T shs 10,000/=
2. About 11,000 - 20,000/=
3. About T shs 21,000/= - 30,000/=
4. About T shs 31,000/= - 60,000/=
5. About Tshs 61,000/= - 100,000/=
5. About 101,000/= - 150,000/=
6. About 151,000/= - 200,000/=
7. About 201,000/= - 300,000/=

8. About T shs 301,000/= - 500,000/=

9. Above T shs 501,000/=

10. Reluctant to divulge

11. Varies

4.1b Please give us your minimum and maximum monthly income

4.1.b 1 Minimum Tshs.....

4.1.b 2 Maximum Tshs.....

4.2. (a)What is the main source of seed capital for this business?

1. Loan from formal bank
2. Loan from informal bank
3. Loan from relatives
4. Loan from friends
5. Loan from Traders
6. Own saving
7. Grant from relatives
8. Grant from others

4.2 (b) If you need credit where can you solicit for funds?

9. Loan from formal bank
10. Loan from informal bank
11. Loan from relatives
12. Loan from friends
13. Loan from Traders
1. I don't know

4.3 List the five most important intermediate inputs needed in fish processing and their costs.

Item	Cost	Unit	Remarks

4.4 From the point where you get fish to the selling place what type of transport do you use?

1. Air
2. Bicycles
3. Road (vehicles)
4. Cart
5. Railway
6. Head

4.5 Source, Buying and selling
On your latest trading, please fill the following

Product	Origin	BUY				SELL			
		From	Place	Qty	Price	Place	Qty	Price	Destination

Processing	BUY				SELL			
	From	Place	Qty	Price	Place	Qty	Price	Destination

4.6 How do you get fish marketing information (fish price)?

1. Radio
2. Newspaper
3. Peers' information
4. Government officials
5. Traders
6. Other (specify)

SECTION 5: RESPONDENTS' OPINION

5.1 How much post harvest loss do you incur during storage and transportation? Suggest in percentage of total volume.

5.2 What benefits, if any do you get from traders/processors group?
.....
.....

5.3 What are the three biggest problems you face in your occupation?

Ending time:.....

FISHING VILLAGES INVENTORY

(For official use only)

I.

1. Name of Village: _____
2. Name of Ward: _____
3. Name of Division _____
4. Name of District _____
5. Name of Region _____
6. Name/Code of Interviewer _____
7. Date of Interview _____
8. Time of Interview _____

II. POPULATION AND HOUSING/SETTLEMENT

A. Population Size

1. Total Number of people to date _____
2. Gender: Male _____ (Adults)
Female _____ (Adults)
3. Age: 0-5 _____ 6-18 _____ 18-64 _____
64+ _____
4. Estimated Population 5 years ago _____
5. Reasons for Increase/Decrease of Population (Specify):

B: Households/Structures:

1. Number of buildings/structures _____
2. Number of households _____
3. Type of Structures
 - (i) Shacks (grass, paperboard, etc.): No. _____
 - (ii) Mud walls and grass thatched: No. _____
 - (iii) Polls and grass thatched. No. _____
 - (iv) Polls and corrugated iron sheets. No. _____
 - (v) Mud bricks and grass thatched. No. _____
 - (vi) Mud bricks and corrugated iron sheets. No. _____
 - (vii) Cement bricks and grass thatched. No. _____
 - (viii) Cement bricks with corrugated iron sheets. No. _____
 - (ix) Other types (name them) _____

III. MAJOR ECONOMIC ACTIVITIES/MEANS OF LIVELIHOOD FOR MOST MEMBERS OF THE COMMUNITY

A. The community's major source of income and means of livelihood (Indicate number or percentage of people involved)

1. Fishing _____
2. Other fisheries related activities _____
 - (i) Fish Processing _____
 - (ii) Fish Smoking/Drying _____
 - (iii) Fish Packaging _____
 - (iv) Fish Vending _____
 - (v) Servicing the Fishing Communities _____
 - (vi) Others (name them) _____
3. Agricultural Activities _____
4. Other activities (specify them if possible)
 - (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____

IV: ACCESS/TRANSPORTATION

A. Access by land (Put a tick to the right response)

- (i) Foot path
- (ii) By road

1. If access is by path, how far to nearest road with connections to major town

- (i) Name of town _____
- (ii) Distance to town _____

2. Type of access road (Put a tick to the right response)

- (i) Dirt Track
- (ii) Murray/Gravel
- (iii) Tarmac/Paved

3. Reliability/Seasonality of Road

- (i) Is the road always passable (Put a tick to the right response)

Yes	
No - Seasonal	

(ii) If road is seasonal indicate month(s) when it is usually impossible: (Put a tick to the right response)

J	F	M	A	M	J	J	A	S	O	N	D

4. Availability of Land Transport serving community
 (i) Is there land transport serving the community?

Yes	
No	

(ii) If YES (above) indicate Types of Transport, Service (to and from where) and frequency of service as follows:

5. Type of transport frequency destination to and from

Type of Transport	Service to/from where	1/Day	2/Week	1/Week	C1/Week
Large Bus(over land)					
Large Truck/Lorry					
Pick-up Truck					
Taxi-Mini Bus					
Motor Bicycle					
Bicycle/Wheel barrow porter					

B: Access by Water

(i) Is there any water transport serving the community (Put a tick to the right response)

Yes	
No	

(ii) If Yes, please indicate the following information

Type of Transport	Services to/from where	Number of services at least			
		1/Day	2/WK	1/WK	C1/WK
Steamer/Cargo ship					
Water taxi/Transporter					

V: BASIC SOCIAL INFRASTRUCTURE AND FACILITIES

Facility service	Tally column	Total no.	Remarks	If none nearest (Kms)
Retail goods/services				
Roofed permanent market stalls				
Open, temporary market vendor display				
General retail shops (food, clothes, HH goods, etc.)				
Retail drug/medicine shops				
Food/soda kiosks				
Tea rooms/restaurants				
Bars				
Maize mills				
Hardware shops				
Fuel supply (petrol, kerosene, paraffin)				
Fishing gear supply				
Out board engine mechanic				
Carpenter/boat building & repair				
Public services/utilities				
Water supply (<i>Tick the appropriate response</i>)	1. Piped 2. Well 3. Pond 4. Running river 5. Lake			
Electricity (<i>Tick the appropriate response</i>)	6. Yes 7. No			
Hospital/clinic/dispensary				
If any MEDICAL FACILITY ask staff about the three most serious local health problems encountered. Rank first, second & third	(a)			
	(b)			
	(c)			

<p>Education facilities (if any education facilities ask staff or community leadership about three most serious inadequacies and/or problems encountered by rank in terms of seriousness)</p> <ul style="list-style-type: none"> ◆ Pre-school ◆ Primary-school ◆ Secondary school ◆ Post-secondary school ◆ Tertiary ◆ Functional literacy ◆ Others (name) <p>Inadequacies/problems</p>	<p>(a)</p> <p>(b)</p> <p>(c)</p>
Police station	
Primary court	
Worship places (Tick the appropriate response)	1. Mosque(s)
	2. Church(es)

VI. (a) Are there any credit facilities at the village/community?

(i) Yes _____ Please, mention them

(ii) No _____

(b) Are there any preserved fish breeding grounds?

(i) Yes _____

(ii) No _____

(c) If yes, who protects them

(i) Local Community (Beach Management Units)

(ii) Fisheries Officials

(iii) NGOs

(d) If NGOs which ones (name them)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

VII. (a) What are the Fishing Methods and Technologies currently in use by members of community your fishing

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____
- (vi) _____
- (vii) _____
- (viii) _____
- (ix) _____

(b) Do some of your members use illegal fishing methods/practices

- (i) Yes _____
- (ii) No _____

(c) If yes, what are the practices/methods used (Probe on the statistics of people convicted on such practices)

- (i) _____
- (ii) _____
- (iii) _____
- (iv) _____
- (v) _____

VIII. Availability of different fish species throughout the year/seasons (mention major/common species)

Type/species of fish	Seasonality
i.	
ii.	
iii.	
iv.	
v.	
vi.	
vii.	
viii.	
ix.	
x.	
xi.	

xii.	
xiii.	
xiv.	
xv.	
xvi.	

IX. FISHERIES FACILITIES

Number of fisheries facilities provided/present at the village/community

e.g.

Fisheries facilities	Yes/No	Number
Landing Sites		
Weighing Scales		
Extension services/Fisheries officers		
Health officers		
Boats		
Outboat engines		
Fishing lamps		

X. FISH PROCESSING / TRADING

1. Forms of processing practiced	Rank order of occurrence(Put a tick on the appropriate form practiced)
Sun drying	
Salt/sun drying	
Scotch/sun drying	
Smoking	
Other (Specify)	
2. Smoking methods used/	Rank order of occurrence (Put a tick on the appropriate method used)
Raised Kilns	
Pit Kilns	
'Chorkor' kilns	
Other (Specify)	
3. Dry methods used	Rank order of occurrence(Put a tick on the appropriate method used)
On Sand	
On Bare Ground	
On gravel Layer	
On Clay Plaster Surface	
On Grass Mats	
On Concrete Platform	
On Elevated Racks	
Other (Specify)	

XI. MAJOR ACHIEVEMENTS OF THE COMMUNITY (By Rank)

Major achievements	Rank

XII. MAJOR PROBLEMS OF THE COMMUNITY

Name any problems perceived by the community through Focus Group Discussions may be in relations to:

1. Prices for their produce

2. Environment, Sanitation and Health issues

3. Relationship with fisheries/govt. officials

4. Relationship with big fishermen and traders

5. Credit Facilities

6. Cheating Practices

7. Fish gear - Prices, type and availability

8. Management of the Lake's ecosystem

9. Basic social services

10. Issues related to sexuality and HIV/AIDS

11. Common diseases and other epidemics and these
Seasonality/frequency

12. Other problems and as perceived by the communities themselves

XIII. OPINIONS ON:

(i.) Policies, By laws, list of offenses/crimes - Statistics on illegal fishing methods

(ii.) Rules and regulations governing the fisheries sector and the extent to which they are complied with

(iii.) What should be done to rectify the situation

(iv.) Education Status:

- ◆ Quality of education

- ◆ Non – formal education

(v) Ideas and dreams of the future

- ◆ On levy collected – whether the 20 % is ploughed back

- ◆ Equipment and raw materials for building boats, fish processing, smoking and packaging

- ◆ Community participation issues

(vi) Others (Specify)

**CHECKLIST OF ISSUES TO BE DISCUSSED BY VARIOUS STAKEHOLDERS
(NGO - YOUTH, WOMEN, SAVING & CREDIT, ENVIRONMENT GROUPS,
TRADERS, ETC.)**

I: Name of Group/Organization/Institution _____
Region _____
District _____
Ward _____
Name of Community/Village _____
Starting time of the interview _____

**II: RESPONSES, COMMENTS AND OPINIONS ON THE FOLLOWING
ISSUES:**

1. Nature of group (Youth, Women, Environmentally oriented, Traders, Savings and Credit, etc. _____

2. What are your objectives

3. What type of activities are you involved in

4. Year of inception/formation _____
5. What do you want to achieve

6. What are the people's perceptions of your group/business

7. Awareness of the importance of the lake/marine ecosystem to the community, group and/or state. _____

8. (If traders)

(i) Do you lend money _____

(ii) Do you fish _____

(iii) Do you do both _____

(iv) Others (name) _____

9. Specific activities related to the management of the surrounding ecosystem/fisheries

10. How were/are you involved

11. What are the specific mandate or terms of reference that inform and guide your institution/organization in its various activities _____

12. Have you been successful in implementing what you were assigned or intended to achieve? (Give reasons for your responses)

13. What do you think are the major problems facing the lake/marine ecosystem and especially the Fisheries Sector. _____

Opinions on:

- (i) Formation of Cooperative Society (saving and credit)
- (ii) Building of Community fisheries facilities for common use, basic facilities by common fund
- (iii) Training

- ◆ Training needs

- (iv) Education

- ◆ Education needs

(iv) Relationship of Fisheries Officers and the community and other fisheries stakeholders

(v) Relationship between big fishing firms/industries and artisanal fishermen

(vi) Management of the Lakes ecosystem and resources.

Ending Time for the interview _____