

## Appendix 2. Household Questionnaire

The aim of this research is to understand the factors that drive mangrove resource extraction, as well as community perceptions on the effectiveness and enforcement of mangrove management measures in the Pangani River Estuary. Your participation in this study is a source of necessary data that will help to achieve the stated goal. You are kindly asked consent to participate and provide sincere information. Information provided will be treated confidentially and only used for this research.

Name of respondent ..... Questionnaire No.....  
Village/site ..... Date.....

1. Gender of the household head? 1= Male 2= Female
2. Are you the head of the household? 1= Yes 2= No
3. If no, state your relationship to head of household.....
4. Age of household head?.....
5. Marital status of household head? 1= Married 2= Single, 3= Divorced, 4= Widow
6. What is highest level of education (years of study) of the household head?.....
7. What is the main occupation of household head? .....
8. What is the size of your household? .....
9. How long have you been settled/ lived in this area?.....
10. Average household income per month (Tanzania Shillings) .....
11. Does your household livelihood depend on any resources extracted from mangroves for livelihoods? 1=Yes 2=No
12. If yes, which resources does your household collect from the mangroves and why?
13. Who often collect or harvesting above resources in your family?
14. If you could use Oryx/ kerosene/ electricity to replace extraction of mangroves as source of energy for cooking, how much could you pay for one month in Tanzania Shillings?
15. Please give reasons for the stated amount in above .....
16. List mangrove forests conservation initiatives found in your area (past and present) and narrate on their success and failure.
17. From question I- VII, you're required to indicate your feelings /opinions/thought by reading the statement given then decide you answer based on your knowledge of mangrove management and conservation in the study area (1 = strongly disagree, 2= disagree, 3 = neutral, 4 = agree or 5 = strongly agree.
  - I. The establishment of beach management units (BMUs) has improved conditions of mangroves in your area
  - II. BMUs are active in facilitating the enforcement of forests and environment by-laws
  - III. Promotion of collaborative arrangement for mangrove conservation by government fully involved local people

- IV. You are willing to contribute and compensate for the management of mangrove forests in your area due to collaborative
  - V. Government institutions through Tanzania Forest Services Agency and District Forest Office are strong in enforcing regulations related to mangroves.
  - VI. Village governments are capable in solving conflicts related to mangrove uses
  - VII. Establishment of management initiatives like community collaborative management arrangements such as joint forest management in your area has enhanced community awareness about conservation.
18. What do you think should be done to conserve mangroves while improving livelihoods of dependent community?