

**REPUBLIC OF UGANDA EUROPEAN UNION**

**MINISTRY OF AGRICULTURE,**

**ANIMAL INDUSTRY & FISHERIES (MAAIF)**

**DEVELOPING A MARKET – ORIENTED AND ENVIRONMENTALLY SUSTAINABLE BEEF MEAT INDUSTRY IN UGANDA PROJECT (MOBIP)**

**UG/FED 2018/ 397425**

**TERMS OF REFERENCE FOR A CONSULTANT IDENTIFY LOCATIONS AND DEVELOP DESIGNS FOR REHABILITATION /CONSTRUCTION OF WATER HARVESTING FACILITIES FOR LIVESTOCK**

**Role:** Water For Production (livestock) Expert

**Report to:**

Functional Reporting: National Project Coordinator (MOBIP)

Administrative Reporting: National Project Coordinator (MOBIP)

**Salary:**

**Job Type:** Contract

**Duration:** 98 working days

**Location**: Directorate of Animal Resources (DAR), Ministry of Agriculture, Animal Industry and Fisheries (MAAIF), Entebbe, Uganda

**Role Definition:**

The consultant (recruited by MOPIB/MAAIF under the Multi Annual Programme Estimate (MAPE)), will assist MOBIP in achieving its stated indicator, through the construction of water harvesting infrastructure, “To improve the performance of at least 51,000 heads of beef cattle through facilitating convenient and year-round access to water within DCZ 1&2 by the end of the project period”.

The overall objectives of the assignment are: (1) Identify suitable locations (within the 17 target districts[[1]](#footnote-1)) for the development of water facilities where they represent value-for-money and positive outcome, with a direct relationship to the beef value chain, (2) Carry out detailed engineering designs of the selected water for production facilities, and prepare tender documents

The consultant will provide a range of services required for the execution and management of the water facility development. These will include, but are not limited to:

1. Map out the locations and requirements of water harvesting infrastructure to be renovated/constructed, including justification for these selections.
2. Undertake studies to assess the impact of the recommended water for production facilities on the economics of the beef production sector in the area, soil factors, and social and environmental aspects.
3. Detailed BoQs and management advice for the water harvesting structures provided

**Key Result Areas:**

1. **Technical studies**

The detailed technical study shall comprise; field investigations and comprehensive technical, economic/financial, environmental as well as social, legal and management options analysis to determine the feasibility of the options identified, including but not limited to the following activities:

1. Hydrological analysis
2. Water demand assessment
3. Topographical Survey
4. Preparation of Topographic Plans
5. Ground /Geotechnical Investigations
6. Socio – economic / cultural assessments
7. Environmental Impact Assessment
8. Operation and maintenance framework
9. Cost estimates
10. Final Design Report
11. **Detailed Design**

The detailed design will include:

1. Engineering design
2. Drawing, bills of quantities (BOQ) and other tender documents (including cost estimates)
3. Specifications for workmanship and materials
4. Special conditions of undertaking the supervision of construction works.
5. **Sustainable Utilization and Operation and maintenance of the Water for Production facilities.**

Sustainability considerations will include; optimal use of the water for production facilities, its impact on production and productivity, main production constraints, water allocation strategy, total water productivity, user fees against costs, social values related to community priorities, and environmental impact considerations.

**Key Outputs:**

1. An Inception report outlining data gathered and examined.
2. Technical Appraisal Report outlining possible locations and design options for the water for production facilities, and comments on the other proposed options, including preliminary designs and cost estimates.
3. The technical Appraisal Report will be discussed, and its recommendations confirmed, during a one day workshop of key stakeholders.
4. Final design report on the most appropriate option(s), bills of quantities, drawings and tender documents for each of the selected areas.
5. Sustainable post-construction operation and maintenance manual.

**Required Educational Qualifications (of team leader):**

1. University degree in Civil Engineering, Water Engineering or similar.
2. A relevant master’s degree will be an added advantage.

**Experience:**

1. At least 10 years proven experience in the design and development of water for production facilities.
2. Experience with livestock infrastructure design is an advantage.
3. Expr5ience of the consultant team should include; Civil/Hydraulic Engineering, Geotechnical design, Land Surveying, Environmental Management and Socio Economics
4. Knowledge of the management of community level water for production facilities.
5. A strong background in monitoring and evaluation of community based water for production supply projects.
6. Demonstrable knowledge of environmental and social impact assessment (ESIA) skills.
7. Knowledge and skills in the analysis of information management and institutional arrangements in water for production for livestock projects
8. Demonstrated experience of carrying out participatory assessments. Previous work with local government is an advantage.
9. Experience of similar tasks in Uganda/East Africa.
10. Good knowledge of Uganda and socio-political context.

**Character:**

1. High level of integrity
2. Proven track record of outstanding performance
3. Ability to work as part of a team
4. Critical and strategic problem solving
5. Fluent in English with excellent oral and written communication skills
6. Ability to deliver accurate results in a timely manner and in an environment with multiple and challenging tasks

Signed of:

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Dr Mary Concepta Mbabazi

National Project Coordinator - MOBIP

1. List the districts from the writeshop map [↑](#footnote-ref-1)