

TERMS OF REFERENCE: SERVICE PROVIDER TO UNDERTAKE REHABILITATION WORKS OF THREE (3) BOREHOLES IN BIKITA AND CHIREDDI DISTRICTS, MASVINGO PROVINCE

PROJECT Title	Resilience through ‘Accelerating New Community-based Holistic Outcomes for Resource Sustainability (Resilience ANCHORS) Activity
Services provided	To undertake rehabilitation works of three (3) boreholes in Bikita and Chiredzi districts, Masvingo province
Type of Contract	Consultancy
Location	Ward 23, Chiredzi and Wards 25, 26 Bikita
Language required	English, Shona
Application deadline	28 February 2022

I. Introduction

On July 20, 2020, USAID awarded African Wildlife Foundation (AWF) to implement the Resilience through ‘Accelerating New Community-based Holistic Outcomes for Resource Sustainability (Resilience ANCHORS)’ Activity. The overarching purpose of the Resilience ANCHORS Activity is to increase the capacity of communities to sustainably protect and manage community-based natural resources and the wildlife economy (based on the conviction that nature is an economic asset) in anticipation of future shocks and stresses. The activity has three main objectives:

1. Improve economic benefits from strengthened community-level governance and oversight of conservation enterprises;
2. Increase sustainable access to supplies of water of sufficient quantity and quality to meet human, economic, and ecosystem needs; and
3. Strengthen locally led development and private sector engagement

2. DESCRIPTION OF SERVICES REQUESTED

Resilience ANCHORS Project intends to, under its Approved Annual Work Plan FY22, and sub activity 2.4.5 which entails to support/facilitate rehabilitation, maintenance, and climate proofing (with appropriate technologies) of water supply sources of three (3) boreholes in both Devure and Nyangambe communities for multipurpose uses (water for food production, water for livestock, and water for domestic use). The development of water sources thus contributes to food security, expanding opportunities for income generation, and conserving soil and water. In total this activity will directly benefit close to 1 600 beneficiaries registered to access safe water of sufficient quantity and quality for productive and domestic purposes.

Development of sustainable water sources will be coupled with capacity building for improved asset management. Water point committees will be trained in operation and maintenance of supply sources developed. This training will ensure sustained access to water to achieve long term resilience building

against anticipated economic and climatic shocks and stresses.

3.2 MAIN OBJECTIVE

The main objective of the requested works will be to improve access to water for multipurpose use (including livestock watering) for resilience building targeting villages in ward 23 (Nyangambe) of Chiredzi District and wards 25 & 26 (Dewure) of Bikita district in Masvingo Province. The selected contractor will provide services for the supply and installation of three (3) integrated solar powered borehole water supply systems including fencing. More information on the scope and specifications of the works are summarized in the table below.

3.3 SCOPE & SPECIFICATION OF PROPOSED WORKS PROPOSED DESIGN STANDARDS

Below is a list of minimum design criteria required for the rehabilitation of the three (3) boreholes:

- a) A maximum of 25 No. Households or 100 people should be served by a single standpipe.
- b) The flow rate should not be less than 10 litres/minute.
- c) The maximum static pressure should be 90 m.
- d) The minimum pressure should be 5/6 m when 80% of the standpipes in the system are open.
- e) An isolating valve should be provided at each standpipe.
- f) The tap should be high enough for a container to fit underneath.
- g) A stand should preferably be provided for the container, with the tap higher up.
- h) A concrete plinth should be provided to drain the water into a soak-away sump with crushed stone.
- i) Storage tanks should provide at least 1-day storage
- j) Water quality should conform to Ministry of Health Standards
- k) Borehole yield tests should be carried out to confirm capacity and sustainability of borehole.
- l) All pipework, concrete and masonry work, woodwork, ironmongery and steel works, earthworks, etc should be to standard civil engineering best practice and should be clearly specified in Bill of Quantities and Specifications.
- m) All solar stands should have an anti-theft mechanism
- n) Solarization- Solar panels to provide adequate power to run 1 horsepower (hp) pump and two 100w lights with a day light switch (for security), with solar modules and anti-theft mounting brackets
- o) Tank stands- Design, construct, supply and fix a tank stand for 1x10 000 litres tanks, firmly secured to the stand
- p) Livestock drinking troughs- Supply all materials and construct a concrete water drinking trough following GoZ standards

- q) Washing basins – supply all materials and construct washing basins that conform to GoZ standards

PROJECT DELIVERABLES

- a) All project deliverables (e.g. drawings, reports, specifications) must be checked and approved
- b) Any revision shall be clearly identified on the drawing or any other document.
- c) A drawings/documents register shall be maintained to control revision status and circulation lists of all project deliverables.

Drawings, Specifications and Bills of Quantities

Minimum requirements for project documents

- A site plan- Preferably georeferenced and showing the location and boundaries of the project. Tracing on 1:5000 1:50000 maps from the surveyor general's office should suffice.
- Water supply network layout drawing- The drawing should be to scale and showing all the major features of the proposals and on an acceptable title block and showing all necessary construction notes and method statements.
- Standard construction details drawing-
- Drawing(s) of Project specific construction details as designed and detailed to acceptable design standards. All drawings to follow acceptable engineering drawing office standards and to be to visible scales and adequately dimensioned.
- Bills of Quantities to be measured and detailed as per Standard Methods of Measurements in Civil Engineering.

Tender/Contract documents

Tender/Contract Documents to include the following as a minimum:

- Condition that 10% of Contractor's claims for approved work will be withheld as security for defective work. The retained money to be released at the end of the defect's liability period.
- All works should be insured during construction periods
- The contractor should take out a third-party liability insurance to protect workers and any third parties
- The defects liability period for works done should be clearly defined.

3.4 Deliverables

The service provider is expected to prepare the following deliverables:

- Three (3) x boreholes rehabilitated, and tested for both quality and quantity yield
- Three (3) x Solar pumping systems installed (one for each borehole site)
- Three (3) x 10,000-liter storage tanks installed (one for each borehole site)
- Three (3) drinking troughs for livestock constructed (one for each water source developed)
- Three washing basins constructed (one for each water source developed)
- Training of Asset management committee on Operation & Maintenance of all articles installed.

Time frame for deliverables

All works specified above are expected to be completed by **Friday, March 25, 2022**. The selected offeror is expected to treat this as one lot of work with the same deliverable timeline.

Warranty

Warranty service and repair is required for the fitted materials under this RFQ. The warranty coverage must be valid on the works for a minimum of 6 months after completion and handing over of works. Bidders shall describe their warranty and demonstrate how they will provide the repair services covered under the warranty plan period.

Special Considerations

- i. The Contractor shall provide detailed specifications on materials to be supplied as well as back up for the materials supplied
- ii. The contractor to undertake the proposed works in the presence of an engineer from the District Development Fund (DDF) and overall supervision by AWF
- iii. Certification of completed works to be done by the District Development Fund (DDF).

SECTION 4 – ELIGIBILITY CRITERIA

The following types of organizations are eligible under this RFQ:

- Locally registered private companies in Zimbabwe
- Category B or higher Civil Engineering Registration with Construction Industry Federation of Zimbabwe, Public Works or Zimbabwe Building Contractors Association
- Companies holding a valid Tax Clearance Certificate

SECTION 5 - EVALUATION CRITERIA

All quotations received in response to this solicitation will be evaluated by the AWF bid review committee. The Subcontract/ Purchase Order shall be awarded based on the best value for work.

Applications to reach lmundembe@awf.org copying eoeri@awf.org on or before 28 February 2022 at 5pm Harare time. Technical and contractual questions concerning this assignment should be submitted to Olivia Mufute on omufute@awf.org.