

TERMS OF REFERENCE (TOR) FOR DRILLING OF BOREHOLE, INSTALLING A WATER PUMP AND ELEVATED TANK FOR COMMUNITY IN OLDERKESI, NAROK WEST SUB COUNTY, NAROK COUNTY.

1. BACKGROUND AND CONTEXT

About the Task

AAH-I is seeking for a competent company to provide the services of drilling a borehole in Olderkesi, Narok west in Kenya.

1.0: Introduction

Action Africa Help International (AAH-I) is a regional not for profit humanitarian and development organization with a mission of improving the quality of life of livelihood challenged communities. AAH-I has country Programs in Kenya, Somalia, South Sudan, Uganda, Zambia, Djibouti and Ethiopia. AAH-Kenya, an affiliate Country Program of AAH-I, addresses development challenges in partnership with marginalized communities in Arid and Semi-arid areas (ASALs) and low income urban and rural settings. AAH-Kenya supports pastoral communities in Narok West Sub County to sustainably improve their social and economic livelihoods.

AAH-I Kenya over the last 7 years have been working with communities in the Narok west and south sub-counties to sustainably improve their livelihoods by building their resilience to adapt to climate change through supporting climate related interventions e.g. construction of sand dams, promote use of energy saving stoves/jikos and biogas, tree planting, fodder development, building the capacity of community structures i.e. cooperatives, women entrepreneurship skills etc., women social and economic activities, and building capacities of right holders to hold duty bearers accountable to their manifestos.

2.0: Background

As severe drought grips most parts of Narok West, lack of access to safe drinking water has contributed to staggering levels of diseases including diarrhea particularly among the young, the immune-compromised and the poor. Unsafe water sources complimented by poor sanitary environment are a major cause of malnutrition rampantly experienced in selected parts of Narok County.

The water supply situation in Olderkesi, Naikarra ward is very poor, it's a rural area where women and children cover long distances during the dry seasons to collect water for domestic and livestock use. Surface water resources are generally scarce because of its dependency on seasonal climatic variations that leave traditional surface water storage facilities either partially filled or empty.

In its different projects, AAHI intends to fully achieve improved livelihoods and resilience through adaptation to climate change. It is for this reason that AAHI is looking for a competent company to drill the borehole that will supply water to Olderkesi communities.

3. Objectives of the Service and Scope of work

The Contract to be established is for the drilling, construction, and development of one borehole in Olderkesi, Narok west Kenya. The borehole, will be up to 130m deep, achieving a full penetration of the A7/B2 aquifer. Additionally, a pumping test (step-drawdown and constant-rate pumping test) is to be carried out and analyzed to determine the safe yield together with water quality analyses together with geophysical logging.

The location of the borehole is about 95km from Narok town, through the Narok-Sekenani road. The drilling contractor shall be responsible for drilling, installation of casings, sanitary seal, borehole development, pumping tests, water quality testing required, installation of solar pump and construction of water collection point.

The specific tasks are indicated on the **detailed BOQ** and will include but not limited to the following:

- Mobilization to the project area of all plant, materials, equipment and personnel.
- Drilling one borehole with finished internal diameter 8" to the required maximum depth of 130 meters.
- Supply and installation of plain steel 6" (152mm) Class B steel casing - 4.5 mm thickness
- Supply and installation of slotted steel casings 6" (152mm) Class B diameter - 4.5 mm thickness
- Grout between the casing and the borehole for top ten meters
- Installation of gravel pack (2-4mm) (not laterite) to at least 3m above top screen.
- Borehole development by airlifting and/or surging for minimum of 4hrs, with estimate of discharge and static water level measurement.
- Test Pumping for 24 hours, draw-down, yield recovery and data analysis
- Bentonite sealing compound
- Cement seal
- Supply and Installation of surface casing (To be Retained)
- Install 6" well head steel cap and cement slab of dimensions 1.0mx1.0mx10m
- Collect water samples and carry out full water quality analysis (chemical and bacteriological analysis) for in a reputable laboratory acceptable to the Project Manager and submit water quality test report
- Demobilizing all equipment, including site cleanup, restoration, and wellhead completion.
- Make water reach the watering point from the borehole

- Installation of a steel 1.m x1m x1m borehole lockable cover
- Construction of steel covered valve chambers
- Install a smart meter as recommended by the supervising consultant. This a WRA requirement.
- Provide, install and commission a submersible pump capable of delivering 5m³/hr against a head of 125m or as directed by the Project Manager. Complete equipping, Make...EMPOWER 5-33, Country of Origin: INDIA, Make of Motor: EMPOWER 3KW.

4. Results

- End of drilling phase report with the updated borehole design.
- Fully finished, developed, and certified borehole as per final design
- Pumping test and interpretation report with a declaration of safe yield.
- Borehole completion report.

5. Indicative Schedule of Activities

The prospective contractor shall submit a comprehensive work schedule

The work schedule shall include setting up the base camp, and moving the drilling units and support equipment to the drill site and actual drilling exercise. It shall also include the construction of elevated tank, installation of solar pump, construction of water collection points and site restoration and demobilization.

This schedule shall be checked and approved by the Supervisor.

6. Qualifications, Experience and Skills

The following skills are expected in the team at a minimum:

The project Manager/drilling engineer

The project Manager/drilling engineer should have civil/water engineer or equivalent technical qualification. The Project Manager should have at least 10 years of experience in Borehole drilling, construction, management, and operation of water projects. Registration with relevant professional body including NCA as site agent/supervisor.

Foreman

The foreman should have relevant technical qualification such as at least Diploma in water and/or Civil engineering or related qualification. At least five years of experience in the operation of BH drilling and day-to-day quality check, control and provide technical support. Registration with relevant professional body including NCA as site agent/supervisor.

8. Terms of Payment

Payments to the drilling contractor will be made in milestone as follows:

- 25% will paid after mobilization of equipment, technical staff and signing of the contract.

- 50 % after satisfactory completion of drilling casing and test-pumping which will be confirmed and approved by the supervisor.
- 15% upon completion of all the tasks as per this TOR, testing and project completion.
- 10% to be held as retention for a period of 3 months to take care of any defects.

9. Application Criteria

Interested drilling contractors should submit a detailed proposal capturing the following:

Mandatory requirements:

1. copy of Certificate of Incorporation/Registration,
2. copy of Current Tax Compliance certificate from Kenya Revenue Authority, certified
3. Copy of Valid and current Business Permit,
4. Articles of Association/Memorandum of Understanding (the 1st, 2nd and the signed page with share distribution) disclosure of business ownership (Directors/ Partners /Sole Proprietor),
5. Bid Bond

Technical Requirements:

6. copy of CR12 Form and copy of National Construction Authority (NCA) registration Certificate for at least Class 8 which must be in water works Category. They should be attached as Annexes.
7. Company Experience: Evidence of Company proven experience with details of contracts and references for works undertaken similar in drilling and BH operation (Attach at least 2 completed contracts with certificate of completion)
8. Demonstration of having technical experts. Give an overview of how the candidate meets the qualifications, experience, and skills requirements. Attached CVs of the project manager and foreman as annexes.
9. A 3 months bank statement up to July 2024.
10. A costed BOQ on company letterhead
11. Detailed work schedule

Submission of Quotes

The Bids shall be submitted in both hard copies and soft copies: Soft copy will be through the following email address: procurement@actionafricahelp.org. While **Hard copies will be sent in sealed envelopes** to the address indicated below.

Submission Address

bids shall be submitted to:

AAH-I Head Office, Nachu Plaza

17th Floor, Kiambere Road, Upper Hill.

Title on the envelope: **OLDERKESI BOREHOLE DRILLING**

Site visit/Inspection

The bidder is strongly advised to visit and examine the site of works and its surrounding and obtain for himself, at his own expense, all information that may be necessary for preparing the tender and entering into contract. The bidder shall be fully responsible for the reliability and accuracy of all information so obtained. Bidders should contact AAHI Narok Office on **0713257709** for direction to the site.

Registration for submission:

Please ensure that, you register your hand delivered bid on bid submission form which will be available at the Head Office and drop it in the bid box yourself, before you leave the office. Unregistered bid will not be considered even if it is dropped in the tender box.

Request for clarifications

All queries and additional information regarding the bid to be channeled through procurement@actionafricahelp.org strictly and must be received not later than **Monday the 26th August, 2024** at **12:00 pm Local Time**.

Deadline for submission of the quotation

The technical and financial proposals must be received not later than **Wednesday, 4th September, 2024** at 3:00 pm, East African Time.

Evaluation criteria

Evaluation will be based on administrative, technical and financial requirements. Failure to submit any of the documents requested at administrative level will result to disqualification.

Notification of the results

Only the successful and competitive bidder will be notified, and if you do not receive email communication within two weeks after the expiry of the deadline, consider your bid not successful.

Language for the bids

The language for the bids shall be **English** only.

Disclaimer

This is only an invitation to bid and AAH-I reserves the right to either amend or cancel it at any time with or without notice. In such cases, AAH-I shall accept no liability whatsoever. The prospective bidder is wholly responsible for any and all costs related to the preparation and submission of their quotations.

AAH-I is not bound to accept the lowest or the highest bidder and the decision of the AAH-I Procurement Review Committee shall be final.