

CALL FOR QUOTATIONS:

Drilling of 5 New Boreholes and rehabilitation of 4 boreholes in Fangak County, Jonglei State.

Background of Organization

Africa Development Aid (ADA) is a non-governmental and non-profit National Organization which was founded in 2012 as an integrated and sustainable transformation of South Sudan and Africa community.

ADA's service commitment and creed

ADA serves all persons without any discrimination at all but taps the richness from the diversity in knowledge, skills and cultures from the various races, faiths, gender identities, professions and nationalities.

Legal Status

ADA is duly registered in South Sudan by the Registrar of NGOs, in the ministry of Humanitarian Affairs and Relief and Rehabilitation Commission as a National Non-Government Organization or charity.

ADA's Vision: ADA aspires to be exemplary and viable to support: FOOD SECURE- LITERATE-HEALTH COMMUNITY IN SAFE ENVIRONMENTS

ADA's Mission: ADA supports: integrated development among the need to fight conflict, disaster, poverty, ignorance, hunger, ill-health and environmental degradation

Africa Development Aid is a national NGO with headquarters in Juba, South Sudan, working with refugees, IDPs, host communities and other marginalized and vulnerable people.

Based on a financial support from German Foreign Finance Office (GFFO) through Caritas Germany, ADA is implementing a multisectoral project in Fangak County, Jonglei State, South Sudan in 2024. It's against this background and in the pursuit of our programming that we are calling for quotations from reputable bidders for supply of drilling and borehole rehabilitation in Fangak County, Jonglei State as indicated below:





OBJECT OF THE ADVERT / TASK

The contractor is expected to conduct a Hydrogeological and Geophysical survey before the drilling of five (05) Boreholes, and rehabilitation of 4 boreholes, all with flood-resilient platforms, in Fangak County, Jonglei State, South Sudan.

List of proposed sites for the drilling of new boreholes and rehabilitation, based on local request and need.

Payam	Facility/Site
New Fangak	Yet to be determined.
Manajang	Yet to be determined.
Old Fangak	Yet to be determined.
Mareang	Yet to be determined.
Pulita	Yet to be determined.
Paguir	Yet to be determined.
Toch	Yet to be determined.

TECHNICAL SPECIFICATIONS

1. Scope of Work

The work will include:

- (a) drilling of 05 deep boreholes, with flood-resilient platforms, installation of casings and screens; provision of gravel packing; development of the boreholes test pumping; obtaining rock and water samples; water quality analysis; platform casting and hand pump or pump installation; as specified hereinafter and as directed by the Supervisor.
- (b) Rehabilitation of 4 existing boreholes – construction of resilient platforms, installation of GI pipes, connecting rods and any other needed repairs and rehabilitation, on a case-by-case basis.

1. Drilling

The contractor shall drill the borehole(s) at the exact location(s) designated by the contractee or the Supervisor in consultation with local authorities. In case of any dry wells, the contractor will relocate to new sites until the five boreholes have been completed.





Workmanship

For this purpose, the contractor shall use suitable equipment, and supply efficient and experienced staff.

Equipment and Materials

All necessary machinery, equipment and materials to carry out the drilling, test pumping, headwork construction, etc. as specified are to be mobilized for the works. Test pumping equipment should be independent from the drilling rig(s).

Borehole depth and diameter

Diameter that shall allow minimum borehole nominal diameter bore of 4 inches at the completion of the borehole, including casing installation. In any case the minimum drilled depth should be 70 meters and maximum 100 meters, on average of 75 meters' depth

Drilling method

The contractor may use any rotary or mud drilling technique that he feels applicable to achieve the depth and diameter required, provided that the techniques used are those specified in his proposal or are approved by the Supervisor.

Sampling

Cuttings (min. 100 grams) of the strata penetrated shall be collected on site at every 1-meter interval and when required by the Supervisor, by whatever method is standard for the drilling technique in use and approved by the Supervisor

Boreholes Design

The final design of the borehole shall be confirmed by ADA WASH Officer in consultation with the contractor during the drilling process, or immediately after drilling is completed

Casing and screens

The casings shall be minimum 102 mm nominal diameter and shall have a minimum thickness of 6 mm and tensile strength of at least 45MN/m² The PVC pipes shall be joined by threads and the joints shall be water tight

Verticality

All boreholes shall be vertical, shall be drilled and cased straight, and all casings/screens shall be set round, plumb and true to line.





Gravel pack

Suitable gravel pack shall be supplied. Gravel pack should consist of washed, well-rounded particles of a uniform grading of between 2.5 and 4.0 mm, shall comprise 90% siliceous material and must contain no clay, shale, silt, fines, excessive amounts of calcareous material or crushed rock.

Sanitary seal

The upper 3 meters of the annular space between the casing and the borehole wall shall be grouted using cement slurry of 1.85- 2.15 kg cement/liters

Yield estimates during drilling

Yield estimates shall be made during the course of drilling using a method agreed upon by the contractor's and contractee Technicians. Preferably the calibrated bucket or velocity-area method should be used. Average yields shall be read as directed by the technician, and recorded in the Daily Record {ref.

Development and cleaning of boreholes

The contractor shall clean the boreholes upon completion of the drilling and installation of casing, screens, grouting and filter pack are installed, in order to remove native silts, clays, loose. The minimum requirement is the "air-lift" method until the ground water runs clean and turbidity free, but in any case, for a minimum of 3 hours. If this condition is not achieved after 6 hours, airlift will be carried-out until the water becomes limpid (clear), but up to a maximum of 12 hours with any extra hours on top of 6 hours to be invoiced accordingly. Upon completion of development, any accumulation of material shall be removed from the bottom of the borehole by airlifting.

Pump Testing

Test pumping will be undertaken in each productive borehole, as assessed by the Supervisor from the yields indicated during drilling. The minimum daily sustainable yield from each borehole must be at least 5000 litres per day

Borehole disinfection

All boreholes shall be disinfected after completion. This can be achieved by placing a chlorine solution into the well so that a concentration of at least 50 mg/l (0.005%) of available chlorine exists in all parts of the well at static conditions. The solution shall remain in the well a minimum of 12 hours before pumping the well to waste. 21 Water level observation





Records and reporting

The contractor shall keep daily activity records for each borehole. The records shall contain the information as specified below. In addition, separate records should be supplied for each borehole upon completion.

Water sampling and quality testing

The contractor shall take water samples for testing the physio-chemical and bacteriological quality at the end of the test pumping.

Capping of the boreholes

During borehole construction, installation, development and test pumping, the contractor shall use all reasonable measures to prevent entry of foreign matter into the borehole. The contractor shall be responsible for any objectionable materials that may fall into the borehole and any effect it may have on the water quality or quantity until completion of the Works and acceptance by the WASH technician

Acceptance of boreholes

The borehole shall only be acceptable by the WASH Technician upon satisfactory completion of all drilling operations, installation of casing and screens, development works, and test pumping.

Clearing the site

On completion of each borehole the site shall be left clean and free from all debris, hydrocarbons and waste, and all pits filled to the satisfaction of the Supervisor

Environmental guidelines and code of conduct

Groundwater exploration and development work should be conducted in an environmentally and socially sensitive and responsible manner. These guidelines are intended to ensure that all parties are aware of the potential impacts of their activities, and carry out the work in an appropriate way.

Drillings Sites

Each drilling site should be completely cleared of all waste after use. Drilling waste (chippings and mud) should be buried. Rubbish, waste oil and chemicals should be returned to the main camp for disposal as outlined in one (1) above. • No spillage of oils or fuels should occur. • On completion of each borehole the site must be left clean and free from all debris, hydrocarbons and waste, and all pits filled to the satisfaction of the Supervisor





2. Rehabilitation and repairs

The platform must be flood resilient, at least one meter height above the ground level.

Includes installation of new GI pipes, connecting rods, disinfection of boreholes.

Legality

All the legal documents of the bidding company must be attached to verify their capacity and they must be valid. The drilling company must show proof of registration from the Ministry of Water resource and irrigation of South Sudan.

The tenderer must attach the following documents to the tender:

- VAT registration certificate
- Latest tax compliance certificate
- Memorandum & Articles of Association
- Copy of Certificate of Registration by Ministry of Commerce, Industry and Investment as a water contractor and /or Registration by Ministry of Water and Irrigation for borehole drilling, equipment and servicing.
- Proof of financial status and liquidity
- Qualification of personnel and attached CVs/certificates
- Previous similar contracts- Purchase orders and/or delivery notes
- References - completion certificates for works done
- Details for key staff members
- Tax Exempt Certificate (if applicable)
- Work plan/time of delivery
- Proof of possession of relevant plant and equipment BQQ

Delivery instruction:

All quotations must be delivered to ADA Office, Plot 379, Teo Road, 600 m off Mission Aviation Fellowship, Tonging, Juba City.

Price and currency policy:

The prices shall be free of VAT and other public charges. Which you may thought of, the prices shall be quoted in United State Dollars (USD). The quoted price shall be valid for 30 days from date of closure of submission of quotes.

Submission of quotations:

All quotations must be delivered to ADA Office, Plot 379, Teo Road, 600 m off Mission Aviation Fellowship (MAF) office, Tonging, Juba City.

Registration for submission:

Please make sure, you register your hand delivered quotation with the procurement department and drop it in the Tender box yourself.



Request for clarifications:

Any request for clarification must be made in writing through the email: [<johnyiek.ada@gmail.com>](mailto:johnyiek.ada@gmail.com), with a copy to [<bilok@adadevelopment.org>](mailto:bilok@adadevelopment.org). This enquires must be send within **48 hours** before the tender closing date.

Dateline for the submission of the quotation:

Submission of the quotation will be strictly from **26 January to 09 February 2024 (4:00 PM)**

Evaluation of quotes and award of supply contract:

The quotes will be evaluated and the supply contract will be awarded based existing legal requirements of South Sudan and existing ADA Procurement Policies concerning price, delivery terms, brand, quality assurances and any other factor which the procurement committee shall deem necessary.

Notification of the results:

Only the successful bidder will be notified, and if you do not receive an order in writing from ADA within two weeks after the expiry of the dateline, consider your bid unsuccessful.

The language to be used when applying shall be English only.

Disclaimer:

This is call for quotations only Africa Development Aid may cancel the process without notice and shall accept no liability whatsoever, arising out of such action. ADA is under no obligation whatsoever to award to the supply contract to the lowest or any bidder, the decision of the procurement committee shall be final.

