



## REQUEST FOR QUOTATION FORM FOR GOODS AND SERVICES

### AGRICULTURAL RESEARCH COUNCIL (ARC)

**RFQ-016835000**

**Enquiries: Supply Chain Management**

**Tel: 012 672 9371**

**E Mail: [khosan@arc.agric.za](mailto:khosan@arc.agric.za)**

**RFQ Closing Date: 14 March 2024 before 10:00 am**

**Compulsory briefing session: 11 March 2024 @ 10:00 am**

1. You are kindly requested to submit a written quotation to Agricultural Research Council as per below or attached specification.

### **INSTALLATION OF BOREHOLE, FOUR WATER TANKS AND GALVANISED STANDS.**

The final siting of the boreholes is the responsibility of the Geohydrologist and will be done in consultation with the appointed driller. The boreholes may have to be drilled to a depth of up to 200m at certain areas, but the final depth drilled will be at the discretion of the project Geohydrologist. A Geohydrologist should indicate where the boreholes should be drilled.

#### **Requirements when boreholes are drilled**

##### **4.1.1 Geohydrological Study by a certified person - Geohydrologist**

- (i) Desktop review
- (ii) Site Walkover and Hydrocensus - Identify structural features etc.
- (iii) Geophysical Survey - Locate priority drilling positions and mark in field.
- (iv) Feasibility Report - Potential drilling sites will be presented and

recommendations made to conduct exploratory drilling.

### **Borehole drilling**

Appointment of a drilling contractor & geohydrologist will be responsible for the following:

- (i) Borehole Construction - Depth, drill-bit diameter, groundwater ingress, casing depth, initial yield test
- (ii) Drilling supervision - geohydrologist will limit the drilling depth to an appropriate depth and profiling, supervise installation of casing, location coordinates
- (iii) Yield testing & water quality analysis by geohydrologist Implementation report

- (i) Water quality, groundwater management plan, recommended equipment for borehole,
- (ii) Borehole numbering in accordance with Department of Water & Sanitation borehole numbering requirements.
- (iii) Water Use Licence Application - If required"

### **Environmental Sensitivity**

The appointed contractor will be required to adhere to The Code of Conduct for working in a Municipal area, as well as Occupational Health and Safety specifications as set out in the OHS act (Act 85 of 1993). It is expected of him to work as neatly as reasonably possible and ensure that they do not obstruct activities at the site. No fires are allowed.

The contractor is to provide toilet facilities on site. Arrangements will be put in place to make water available to the contractor. Failure to adhere to the Code of Conduct or OHS Specifications could result in immediate suspension of the project with penalties until such time that appropriate corrective action is implemented. Failure to implement appropriate corrective action within 5 days could result in cancellation of the appointment without the project Geohydrologist or his client being liable for any payment.

### **Scheduling**

Drilling is to commence immediately after receiving written acceptance of the quotation, but the exact starting date is to be decided on by the project Geohydrologist in consultation with the contractor and the representative of ARC.

## Borehole Specifications

**The following borehole specifications are of relevance:**

- Three (3) boreholes are to be drilled to an expected depth of up to 200m. The final drilling depth will depend on geological conditions encountered, the yield of the borehole and will be set by the project Geohydrologist during drilling.
- The borehole is to be drilled to a minimum diameter of 165 mm.
- In addition to any steel casing, the entire borehole is to be fitted with class 12 PVC casing. The rates for supplying and installing 125 / 144 mm PVC casing and screen must be supplied with the quote.
- PVC casing and screens are required to the following specifications:
- Flush fit threaded screens and casing of sufficient class are to be used, and no screws or pop-rivets may protrude through the casing. An end cap is to be fitted to the deepest length of casing.
- The screens are to have at least 10% open area on the inside wall of the casing, and a slot width of between 1.0 and 2.0 mm.
- Every second length of casing and screen is to be fitted with a centraliser to ensure that the casing is positioned in the centre of the borehole.
- The annulus between the boreholes and screens are to be filled with a gravel pack with a minimum diameter of 3 mm.
- Boreholes are to be drilled straight and as vertical as is practically possible.
- On completion of drilling and installation of the screens and casing, the boreholes are to be air flushed for one hour such that all drilling fluids and rock debris are removed.

## **Pricing and Payment**

The costing for project is to be set out in the following manner:

- Initial mobilisation cost of establishing drilling equipment on site.
- Set up (per borehole site).
- Drilling cost (per metre).
- Supply and install steel casing (per metre).
- Supply and install PVC casing (per metre).
- Supply and install PVC screen (per metre).
- Supply materials and insert gravel pack (per metre).
- Borehole air flush development (per hour).
- Supply and fit bentonite seal (per borehole).
- Standing time (per hour).

### **The following specific considerations apply:**

- Where no cost is to be charged for specific item, clearly state No Charge.
- The price for inserting and removing temporary casing or casing required for the drilling process must be included in the drilling cost.
- The cost of all equipment used in the drilling process must be included in the drilling cost (e.g. diesel, drill bits, etc.).
- A drilling cost per metre, irrespective of lithology, must be used. The contractor may specify rates for different drilling diameters and depth.
- Initial mobilisation cost will only be paid on completion of the contract.
- This is a fixed price contract and no variation of rates shall be entertained.

## **TESTING OF BOREHOLES**

The borehole be yield tested in order to determine their maximum recommended abstraction rates. Water from the boreholes must also be analyzed at a SANAS accredited laboratory to determine the quality of water.

The tests will be as follows:

- Yield testing of boreholes:
  - 1 x 1 hour stepped discharge testing, followed by 4 hours recovery monitoring: and
  - 24-hour constant discharge rate test, followed by 24 hour recovery.
- Sampling of each borehole's water for laboratory analysis
- Reporting on maximum recommended yield of each borehole
- Water Quality analysis in relation to certain standards (e.g South African Water Quality for Livestock Watering and SANS 241:2011 Standard for Drinking Water)
- A full report is to be submitted with guidelines as to how much water can be utilised as well as suggested pump depth for each borehole

#### **SPECIFICATION FOR TANKS X 4**

##### **JoJo or equivalent brand Vertical Water Tank - Green (5250L)**

Material: Linear Low Density Polyethylene (LLDPE)

SABS approved

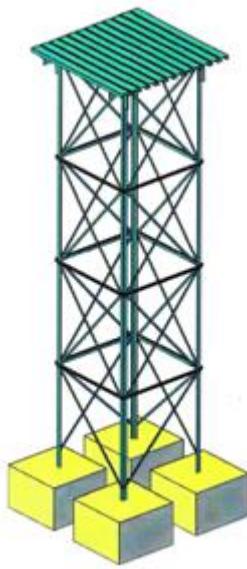
Guarantee: 10-year

Warranty: 10-year

Diameter: 1820

Height: 2255

##### **TANK STEEL STAND (GALVANISED STANDS) FOR 4 5250L TANKS X 4**



**Find attached specification as Annexure A**

## PRICING SCHEDULE

### SET Borehole Equip

Item	Description	Unit	Quantity	Rate	Total (Excl. VAT)
<b>Drill Borehole</b>					<b>R</b>
1	Site Establishment	sum	3	R	R
2	Drill borehole (6") 165mmØ - up to 200m deep	No.	3	R	R
3	Install Casing - PVC, dependent on borehole depth	m	As required	R	R
4	OH&S	sum	1	R	R
<b>Install Manual-pump (WHP9)</b>					<b>R</b>
1	WHP9 pump (depending on borehole depth as well as yield, max head = 205m)	unit	1	R	R
2	Pump installation	sum	1	R	R
<b>Geohydrologist</b>					<b>R</b>
1	Geohydrologist fee (refer to par. 4.1 to 4.4.)				
	<b>JOJO OR EQUIVALENT BRAND TANKS</b>	sum	4	R	R
	<b>Galvanised stand</b> Include material and labour	sum	4	R	R

SUB-TOTAL	R
VAT (15%)	R
GRAND-TOTAL	R

**N.B: all prices are inclusive of material, transport, after completion we require well functional borehole system.**

### **MANDATORY RETURNABLE DOCUMENTS**

Bidders who fail to comply with the below requirements will be eliminated and not progress to the next phase of evaluation. Bidders who comply with the below will progress to the next phase of Price and Preference Evaluation.

Description of requirement	Indicate COMPLY/NOT COMPLY	Comment or reference to proposal
<b>GENERAL</b>		
Tenderers with a CIDB Grading level of 1CE or higher are eligible to apply. Proof of CIDB Grading Registration must be provided		
Proven track record and experience in drilling of boreholes. The bidder must submit at least two (2) reference letters or completion certificates/ letters of similar projects undertaken in the past five (5) years		

2. The above specified goods/services should be delivered/rendered to:

**Name of Institute** : ARC- IRENE

**Address** : Old Olifantfontein Road

3. The particulars of the guarantee that will apply to the goods quoted for, with particular regard to the period and extent of the warranty must be clearly stated. Where services are required, service providers must submit documentation pertaining the relevant experience.

4. Your written quotation should be sent to:

E Mail: [khosan@arc.agric.za](mailto:khosan@arc.agric.za)

5. **Evaluation Criteria**

For procurement equals to R2000 but not above R50million: 80/20 preferential procurement principle is applicable. A maximum of 20 points will be awarded to a tenderer/ service provider for the specific goals as follows:

<b>RDP GOALS</b>	<b>80/20</b>
HDIs (people who had no franchise on national elections prior to 1994)	8
Women	4
Youth	4
People with disabilities	2
Implementation of RDP goals ( <b>The promotion of SMMEs</b> )	2

2 Standard conditions:

- a. The 30 days or above validity of the quotations must be indicated.
- b. Prices quoted should be in South African Rand and inclusive of VAT costs such as delivery, insurance, taxes, etc.
- c. No price adjustments or amendment of the delivery particulars contained in paragraph 2 will be considered by the ARC.
- d. The supplier accepts full responsibility for the proper execution and fulfilment of the goods/services quoted for.
- e. ARC reserves the right to accept or reject any special terms and conditions that may qualify the goods/services to be provided.
- f. Quotes should be submitted on an official letterhead and duly signed
- g. Goods and services should be supplied/rendered upon receipt of a purchase order from the ARC

- h. The General Conditions of Contract issued by National Treasury are applicable.
- i. The ARC supply chain management code of conduct is applicable.
- j. Your quotation must indicate the delivery date.
- k. The ARC reserve the right to do due diligence on the quotations.
- l. The ARC reserve the right to benchmark prices quoted.
- m. CSD registration summary report