



GAUTENG PROVINCE
AGRICULTURE AND RURAL DEVELOPMENT
REPUBLIC OF SOUTH AFRICA

TERMS OF REFERENCE

CONTRACT NO: AGP202603 (C)
FOR

REQUEST FOR QUOTATION FOR THE APPOINTMENT OF
A SERVICE PROVIDER FOR MAINTENANCE AND REPAIRS
OF BOREHOLES, IRRIGATION EQUIPMENT, AND
ACCESSORIES FOR EIKENHOF AGRIPARK

TABLE OF CONTENTS

Heading	Page No.
C1.1 FORM OF OFFER AND ACCEPTANCE	3
C1.2.1. CONDITIONS OF CONTRACT	7
C1.2.2. CONTRACT PROVIDED BY THE EMPLOYER	7
C1.2.4: VARIATION TO THE GENERAL CONDITIONS OF THE CONTRACT	9
C1.3 AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT No. 85 OF 1993)	10
PART C2: PRICING DATA.....	13
C2.1. PRICING INSTRUCTIONS.....	13
C2.2. BILL OF QUANTITY	15
PART C3: SCOPE OF WORKS.....	26
C3.1 DESCRIPTION OF THE WORKS.....	26
C3.1.1 EMPLOYER'S OBJECTIVE	26
C3.1.2 OVERVIEW OF THE WORKS.....	26
C3.1.4 LOCATION OF THE WORKS	27
C3.2 ENGINEERING.	29
C3.2.1 DESIGN.....	29
C3.2.2 DRAWINGS.....	29
C3.3 PROCUREMENT.....	30
C3.3.1 CONTRACTOR SERVICES	30
C3.3.2 SUB-CONTRACTOR SERVICES.....	30
C3.3.2.1 Scope of Works for Sub-contractor Services.	30
C3.4 CONSTRUCTION	30
C3.4.1 WORKS SPECIFICATION.....	30
C3.4.1.1 STANDARDIZED SPECIFICATION.....	30
C3.4.1.2 QUALITY MANAGEMENT PLAN.....	31
C3.4.1.5 COMMISSIONING.....	31
C3.4.2 SITE ESTABLISHED	32
C3.4.2.2 Facilities provided by the Contractor.	32
C3.4.2.3 Permits and Wayleaves.	33

PART C1: AGREEMENT AND CONTRACT DATA

C1.1 FORM OF OFFER AND ACCEPTANCE

**FORM OF OFFER AND ACCEPTANCE
(Agreement)**

Offer

The GDARD, identified in the Acceptance signature block, has solicited offers to enter a contract in respect of the following works: **THE APPOINTMENT OF A SERVICE PROVIDER FOR BOREHOLES, IRRIGATION EQUIPMENT, AND ACCESSORIES MAINTENANCE EIKENHOF AGRIPARK**

The Tenderer, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined by the Conditions of Contract identified in the Contract Data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE-ADDED TAX IS

.....

.....Rand (in words); R..... (in figures).

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

For the Tenderer:

Signature:

Name:

Capacity:

Name and address of organisation:

.....

.....

.....

Signature and name of witness:

Signature:

Name:

Date:

Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due by the Conditions of Contract identified in the Contract Data. Acceptance of the Tenderer's Offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in

- | | |
|--------|--|
| Part 1 | Agreements and Contract Data (which includes this Agreement) |
| Part 2 | Pricing Data |
| Part 3 | Scope of Work |
| Part 4 | Site Information |

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative(s) of both parties.

The Tenderer shall within fourteen (14) days after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations by those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties

For the Employer:

Signature:

Name:

Capacity:

Name and address of organisation:

.....
.....
.....

Signature and name of witness:

Signature:

Name:

Date:

CONFIRMATION OF RECEIPT

The Tenderer, (now Contractor), identified in the Offer part of this Agreement at this moment confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

the (day)

of (month)

20..... (year)

at (place)

For the Contractor:

Signature:

Name:

Capacity:

Signature and name of witness:

Signature:

Name:

PART 1: AGREEMENTS AND CONTRACT DATA

C1.2.1. CONDITIONS OF CONTRACT

The **General Conditions of Contract for Construction Works**, Third Edition (2015) published by the South African Institution of Civil Engineering, Private Bag X200, Halfway House, 1685, applies to this Contract and is obtainable from www.saice.org.za.

C1.2.2. CONTRACT PROVIDED BY THE EMPLOYER

The following contract-specific data, referring to the General Conditions of Contract for Construction Works, Third Edition (2015) apply to this contract.

Clause	Contract specific data
1.1.1.13	The Defects Liability Period is 90 days (<i>measured from the date of the Certification of Practical Completion</i>).
1.1.1.15	The Employer is the Gauteng Department of Agriculture and Rural Development (GDARD)
1.2.1.2	Umnotho House 56 Eloff Street Johannesburg Tel: (011) 240 2765 /072 9123 916 Email: Mmaphuthi.Poelinca@gauteng.gov.za
1.1.1.16	The name of the employer's Agent is GDARD: INFRASTRUCTURE DEVELOPMENT
1.1.1.26	The Pricing Strategy is a Re-measurement Contract.
5.3.1	a) A Health and Safety Plan is a requirement; the contractor is responsible for complying with the OHS Act no. 85 of 1993 and Regulations, which must include an Environmental Management Plan (EMP). The documentation required before commencing with the Works is: • A Health and Safety Plan file is a requirement; the contractor is responsible for complying with the OHS Act no. 85 of 1993 and Regulations, which must include an Environmental Management Plan (EMP). Scope of work. • Personnel list (employees in the workplace). • Smoking policy/ SHE Policy and other Policies. • Updated copy of the Occupational Health and Safety Act (Act no. 85 of 1993) and its Regulations; COID Act. • Proof of valid registration and good standing with the Compensation Commissioner • SHE Plan • Approved risk assessments, review and monitoring plans, and safe work procedures (method statements). • A list of external service providers including copies of the agreements between the parties and the type of work being done by each service provider (IF APPLICABLE). • All written designations and appointments for project scope of work (CV and competency copies). • Management structure (inclusive of OH&S responsibility & meeting structure). • Induction training and site SHE rules. • Occupational health and safety training matrix/plan. • Description of security measures. The following registers (as applicable to work performed/scope of work): • Accident and/or incident notifications, investigation & control register. • Occupational health and safety representatives' inspection register. • Toolbox talks pro forma. • First-aid box content template. • Record of first-aid treatment template. • Fire equipment inspection and maintenance template. • Ladder inspection template. • Machine safety inspections template (including machine guards, lockouts, etc.). • Inspection templates for structures.

Clause	Contract specific data
	• Templates for issuing Personal Protective Equipment. b) Emergency preparedness and c) Initial program of works (Refer to Clause 5.6) d) Quality Management Plan. e) All Risk Insurance: It is Applicable to this contract. f) Method statement.
5.3.2	The time to submit the documentation required before the commencement of the works is fourteen (7) calendar days.
5.4.2	The access and possession of the Site shall not be exclusive to the Contractor but as set out in the Site Information.
5.8.1	The non-working days are: 1) Sunday. 2) Saturday. 3) Public holidays and voting days if published before the tender closing date. 4) The year-end break commencing and ending on dates specified by SAFCEC. No work shall be executed unless otherwise permitted as per clause 5.8
5.13.1	The penalty for failing to complete the Works within the approved timeframes, plus approved extensions of time or condonation thereof, is R0.10 per R100 of the contract value per calendar day.
5.14.1	The requirements for achieving Practical Completion are. a) Completed supply and installation works as per prescribed specifications and to the satisfaction of GDARD. b) The works execution methods, techniques, and processes must comply with the stipulated works specification and be fully compliant with the OHS Act 85 of 1993 and regulations as amended, as well as NEMA.
5.14.5.3	The retention shall be kept at 100% in terms of Clause 6.10.5
6.2.1	The security to be provided by the contractor shall be the fixed performance Guarantee of 10% of the Contract Value, including value-added tax (VAT). Alternatively, the contractor shall arrange for a 10% retention of the value of works deducted from initial and intermediate claims until the 10% of the Contract value has been achieved.
6.10.1.5	The percentage advance on materials not yet built into the Permanent Work is Nil.
6.10.3	The limit of retention money is 10% of the Contract Sum.
6.10.5	When a Defects Liability Period is specified, no retention money shall become due and shall be paid to the Contractor. When the Employer's Agent has issued a Practical Completion Certificate in terms of Clause 5.14.4. The total amount (100%) of retention money shall become due when the Employer's Agent has issued a Completion Certificate. It shall be paid to the Contractor within 30 days of the expiration of the Defects Liability Period, which may be extended in terms of Clauses 5.14.4 or 7.8.1 if necessary.
8.6.1.1.2	It is not required.
8.6.1.1.3	The amount to cover professional/works All Risk insurance including public liability to be included in the insurance sum is R (Minimum twice the contract sum amount)
10.5.3	The number of Adjudication Board Members to be appointed is three

C1.3 AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT No. 85 OF 1993)

THIS AGREEMENT made at _____

on this the _____ day of _____ in the year _____

between **THE GDARD** (hereinafter called "the **Employer**") of the one part, herein represented by

_____ in her capacity as **Occupational Health and**

Safety _____

and

_____ (hereinafter called "the Mandatory") of the other part, herein represented by

_____ in his/her capacity as _____

WHEREAS the Employer is desirous that certain works be constructed, and has accepted a Bid by the Mandatory for the construction, completion, and maintenance of such Works, whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1 The Mandatory shall execute the work by the Contract Documents about this Contract.
- 2 This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Employer's Agent requiring him to commence the execution of the Works, to either
 - (a) the date of the Final Approval Certificate issued in terms of Clause 5.16.1 of the General Conditions of Contract (hereinafter referred to as "the GCC"),
 - (b) the date of termination of the Contract in terms of Clauses 9.1, 9.2, or 9.3 of the GCC.
- 3 The Mandatory declares himself to be conversant with the following:
 - (a) All the requirements, regulations, and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of The Act:
 - (i) Section 8: General duties of employers to their employees.
 - (ii) Section 9: General duties of employers and self-employed persons to persons other than employees.
 - (iii) Section 37: Acts or omissions by employees or mandataries, and
 - (iv) Subsection 37(2) relating to the purpose and meaning of this Agreement.
 - (b) The procedures and safety rules of the Employer as about the Mandatory and all his subcontractors.
- 4 In addition to the requirements of Clause 8.4 of the GCC and all relevant conditions of the contract mentioned above, the Mandatory agrees to execute all the Works forming part of this Contract and to operate and utilize all machinery, plant, and equipment by the Act.
- 5 The Mandatory is responsible for compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.
- 6 ***The Mandatory warrants that all his and his subcontractors' workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.***
- 7 The Mandatory undertakes to ensure that he and/or subcontractors and/or their respective employers will always comply with the following conditions:
 - (a) The Mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Mandatory shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Mandatory obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.

- (b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Mandatory to the Department of Labour as well as to the Employer. The Employer will be provided copies of all written documentation relating to any incident.
- (c) The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the Mandatory and/or his employees and/or his subcontractors.

8. The contact details of the OH&S Agent for the GDARD are as follows:

Name and Surname:

Practitioner: Occupational Health and Safety

Tel:

Cell:

Email:

In witness thereof, the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

SIGNED FOR AND ON BEHALF OF THE GDARD:

WITNESS 1

NAME 1
(IN CAPITALS)

SIGNED FOR AND ON BEHALF OF THE MANDATORY:

WITNESS 2

NAME 2
(IN CAPITALS)

**CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT IN TERMS OF OCCUPATIONAL
HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)**

The signatory for the company that is the Contractor in terms of the above-mentioned Contract and the Mandatory in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on _____ 2024.....,

Mr/Ms _____

whose signature appears below, has been duly authorized to sign the AGREEMENT in terms of THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 of 1993) on behalf of

SIGNED ON BEHALF OF THE COMPANY: _____

IN HIS/HER CAPACITY AS: _____

DATE: _____

SIGNATURE OF SIGNATORY: _____

WITNESS 1

NAME 1
(IN CAPITALS)

PART C2: PRICING DATA

C2.1. PRICING INSTRUCTIONS.

1 General

The Schedule of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all other documents comprising the Contract Document, which include the Conditions of Bid, Conditions of the Contract, and the project Specifications.

2 Descriptions of items in the Schedule

The descriptions of the items in the Schedule of Quantities serve as a benchmark for bidders to formulate price proposals. The bill of quantities preparation has been derived from the:

The Standard System of Measuring Building Work, Seventh Edition, published by the Association of South African Quantity Surveyors.

3 Quantities Reflected in the Schedule

The quantities set out in the schedule of quantities are only approximate quantities. The quantities of work finally accepted and certified for payment, and **not** the quantities given in the schedule of quantities, will be used to determine payments to the contractor.

The validity of the contract will in no way be affected by differences between the quantities in the Schedule of Quantities and the quantities the GDARD finally certifies for payment.

4 Provisional Sums

Where Provisional sums are provided for items in the Schedule of Quantities, payment for work done under such items will be made by a pre-approved Terms of Reference. The GDARD reserves the right, during the execution of the works, to adjust the stated amounts upwards or downward according to the work done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

5 Prime Cost Sums

An amount allowed for an item or service for which actual details of the scope of work are not defined at the tender stage. Payment is made on the production of invoices showing the actual cost after implementation or installation. Services rendered in this manner carry a markup for which a rate is offered at the tender stage to cover all the tenderer's costs and profit in providing the item or services.

6 Pricing the Schedule of Quantities

The prices and rates to be inserted by the Bidder in the Schedule of Quantities shall be the full inclusive prices to be paid by the GDARD for the work described under several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all work described and as shown on the drawings (where applicable) as well as all overheads, profits, incidentals and the cost of all general risks, liabilities, obligations, temporary and permanent works set forth or implied in the documents on which the Bid is based.

Each item shall be priced and extended to the "Total" column by the Bidder, except the items for which only rates are required, or items which already a Prime Cost or Provisional Sums have been affixed thereto. If the Bidder omits to price any items in the Schedule of Quantities, then these items will be considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Contractor will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

The Contractor shall fill in rates for all items where the words "Rate Only" appear in the "Total" column. "Rate Only" items have been included where:

- an alternative item or material is contemplated.
- variations of specified components in the make-up of a pay item may be expected, and

- no work under the item is foreseen at the Bid stage but the possibility that such work may be required is not excluded.

For "Rate Only" items no quantities are given in the "Quantity" column, but the quoted rate shall apply in the event of work under this item being required. The Contractor shall however note that in terms of the Bid Data, the Contractor may be asked to reconsider any such rates the GDARD may regard as unbalanced.

All rates and amounts quoted in the Schedule of Quantities shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added to the summary of the Schedule of Quantities.

7 Corrections of Entries

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initiated by the Contractor.

8 Arithmetical Errors

The rates and lump sums filled in by the Service Provider in the pricing schedule shall be final and binding upon submitting the tender and may be adjusted should there be any mistakes in the extensions thereof and the total sums appearing in the tender.

Should there be any discrepancies between the tender sum and the extended and totaled pricing schedule, the tender sum will be regarded as being correct, and the GDARD shall have the right to make adjustments to the pricing schedule rates to reconcile the pricing schedule rates with the tender sum appearing on the form of the offer provided is the same as the tender sum at the bottom of pricing schedule or summary schedule. In such an event the Service Provider will be consulted but, failing agreement between the parties, the decision of the GADRDE shall be final and binding.

Adjustment of the pricing schedule rates will take place before the signing of the contract. In their interest Service Providers must ensure that their tendered rates, the extensions, and the tender sum are correct.

Should any between the sum written in the form of an offer and tender in the pricing schedule be any discrepancies, the sum appearing in the pricing schedule shall take precedence and be regarded as the final offer.

9 Monthly Payments

Unless otherwise specified in the Specifications and Project Specifications, progress payments shall be using interim progress instalments measured against actual deliverables achieved to the satisfaction of GDARD, according to the pre-approved Terms of Reference.

C2.2. BILL OF QUANTITY

MAINTENANCE AND REPAIRS OF BOREHOLES, WATER STORAGE, PIPEWORK AND IRRIGATION SYSTEM IN AGRIPARKS

Item No.	Description	Unit	QTY	Rate	Amount
	<u>BILL No. 1</u>				
1	<u>PRELIMINARY AND GENERAL</u>				
	<u>- SUPPLEMENTARY PREAMBLES</u>				
	-				
1,01	Site Office Establishment including all General & Contractual Obligations (Not limited to insurances, performance guarantee, offices, Fencing of camp, water, ablutions and electricity). Breakdown of what is included required after contract appointment.	Item	2	R	R
1,02	De-establishment of site after completion	Item	2	R	
1,03	OHS Compliance, including Safety Officer, Safety File, personal protective clothing, and equipment. Breakdown of what is included required after contract appointment.	Item	1	R	R
Total carried to summary page				R	
Bill No.1 PRELIMINARY AND GENERAL					

Item No.	Description	Unit	Quantity	Rate	Amount
2	<u>BILL No.2</u>				
	<u>BASELINE CONDITION ASSESSMENT AND FAULT DIAGNOSIS</u>				
	Baseline condition assessment of complete borehole, water storage, pipework and irrigation system. Including report of findings (photographic evidence), recommendations for repairs and estimated cost and breakdown (Actual cost indicated under 2.02 below), recommendations for maintenance intervals for all equipment and systems. Breakdown of cost will be required after contract appointment.	Item	1	R	R
	Cost estimate for repairs and maintenance works as identified above (Breakdown to be included in the Conditional Assessment above)	Sum	1	R	R
	Preparation of the asset and equipment register, including photographic condition record per facility.	Item	1	R	R
2,04	Estimated cost to conduct boreholes testing, to confirm capacity, life span and periodic maintenance needs per borehole, including contractor profit and attendance.	Item	1	R	R
Total carried to summary page				R	
Bill No.2					
BASELINE CONDITION ASSESSMENT AND FAULT DIAGNOSIS					

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No.3</u>				
3	<u>BOREHOLE AND PUMPING EQUIPMENT</u>				
3,01	Inspect and service/ repair borehole headworks, visible casing, rising main, valves and discharge connections	No.	Rate Only	R	R
3,02	Operational testing and servicing of the borehole pump, including start/stop, noise, vibration and discharge observation	No.	Rate Only	R	R
3,03	Inspect and service surface/booster/transfer pump, including replacement of broken parts. To full operation	No.	Rate Only	R	R
3,04	Remove and refit submersible borehole pump, depth up to 60 m, excluding specialist repair cost	No.	Rate Only	R	R
3,05	Remove and refit submersible borehole pump, depth exceeding 60 m, subject to price breakdown and approval.	Prov. Sum	Rate Only	R	R
3,06	Replace the mechanical seal on the surface pump	No.	Rate Only	R	R
3,07	Replace pump bearings	Set	Rate Only	R	R
3,08	Replace the pump coupling	No.	Rate Only	R	R
3,09	Replace the pressure switch	No.	Rate Only	R	R
3,10	Replace the float switch/level switch	No.	Rate Only	R	R
3,11	Replace the non-return valve on the pump discharge with a diameter up to 50 mm	No.	Rate Only	R	R
3,12	Replace the non-return valve on the pump discharge, diameter 63 mm to 110 mm	No.	Rate Only	R	R
3,13	Specialist pump repair, subject to quotation and Employer approval	Prov. Sum	Rate Only	R	R
3,14	Repairs and maintenance of borehole protection structure, including doors and locking system as applicable.	No.	Rate Only	R	R
3,15	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>		Rate Only	R	R
3,16			Rate Only	R	R
3,17			Rate Only	R	R
3,18			Rate Only	R	R
3,19			Rate Only	R	R
3,20			Rate Only	R	R
	Total carried to summary page			R	
	Bill No.3				
	BOREHOLE AND PUMPING EQUIPMENT				

Item No.	Description	Unit	Quantity	Rate	Amount
4	<u>BILL No.4</u> <u>ELECTRICAL CONTROL AND PROTECTION EQUIPMENT</u>				
4,01	Inspect pump control panel and associated visible electrical controls. Produce a written diagnosis and assessment report on findings as well as recommendations, if applicable.	No.	Rate Only	R	R
4,02	Test the pump starter, overload, isolator and basic control operation. Produce a written diagnosis and assessment report on findings as well as recommendations, if applicable.	No.	Rate Only	R	R
4,03	Replace the contactor, single or three phase, subject to rating confirmation	No.	Rate Only	R	R
4,04	Replace overload relay, subject to rating confirmation	No.	Rate Only	R	R
4,05	Replace isolator, subject to rating confirmation	No.	Rate Only	R	R
4,06	Replace timer/control relay	No.	Rate Only	R	R
4,07	Replace the pressure/level control device	No.	Rate Only	R	R
4,08	Repair a minor control wiring fault	No.	Rate Only	R	R
4,09	Issue an electrical Certificate of Compliance where required	No.	Rate Only	R	R
4,1	Specialist electrical repair or VSD repair, subject to quotation and approval	Prov. Sum	Rate Only	R	R
4,11	Repairs of pump control panels including replacement of damaged accessories and cables.	No.	Rate Only	R	R
4,12	Replacement of pump control panels and associated accessories and cables.	No.	Rate Only	R	R
4,13	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>		Rate Only	R	R
4,14			Rate Only	R	R
4,15			Rate Only	R	R
4,16			Rate Only	R	R
4,17			Rate Only	R	R
4,18			Rate Only	R	R
				R	R
	Total carried to summary page			R	
	Bill No.4				
	ELECTRICAL CONTROL AND PROTECTION EQUIPMENT				

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No 5</u>				
5	<u>WATER STORAGE TANKS AND FITTINGS</u>				
	Inspect water tank (visible tank stand defects and safety concerns), inlet, outlet, overflow, float valve and associated fittings. Produce a written diagnosis and assessment report on findings as well as recommendations, if applicable.	No.	Rate Only	R	R
5,01					
5,02	Replace tank connector/fitting up to 50 mm	No.	Rate Only	R	R
	Replace tank connector/fitting 63 mm to 110 mm	No.	Rate Only	R	R
5,03					
5,04	Replace the float valve/ball valve	No.	Rate Only	R	R
5,05	Repair leaking tank outlet/inlet connection	No.	Rate Only	R	R
5,06	Replace the flexible tank connection	No.	Rate Only	R	R
	Clean accessible debris from the tank outlet/filter connection, excluding tank cleaning	No.	Rate Only	R	R
5,07					
5,08	Repairs the stand or structure where storage tanks are kept	Sum	Rate Only	R	R
	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>				
5,09			Rate Only	R	R
5,10			Rate Only	R	R
5,11			Rate Only	R	R
5,12			Rate Only	R	R
5,13			Rate Only	R	R
5,14			Rate Only	R	R
5,15			Rate Only	R	R
5,16			Rate Only	R	R
	Total carried to summary page			R	
	Bill No.5 WATER STORAGE TANKS AND FITTINGS				

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No 6</u>				
6	<u>PIPEWORK, FITTINGS AND LEAK REPAIRS</u>				
6,01	Locate visible leaks and expose defects where accessible. Produce a written diagnosis and assessment report on findings as well as recommendations, if applicable.	No.	Rate Only	R	R
6,02	Repair HDPE pipe leak, diameter up to 32 mm	No.	Rate Only	R	R
6,03	Repair HDPE pipe leak, diameter 40 mm to 63 mm	No.	Rate Only	R	R
6,04	Repair HDPE pipe leak, diameter 75 mm to 110 mm	No.	Rate Only	R	R
6,05	Repair PVC/uPVC pipe leak, diameter up to 50 mm	No.	Rate Only	R	R
6,06	Repair PVC/uPVC pipe leak, diameter 63 mm to 110 mm	No.	Rate Only	R	R
6,07	Repair a galvanised pipe leak, diameter up to 50 mm	No.	Rate Only	R	R
6,08	Supply and install HDPE pipe, diameter up to 32 mm	m	Rate Only	R	R
6,09	Supply and install HDPE pipe, diameter 40 mm to 63 mm	m	Rate Only	R	R
6,10	Supply and install HDPE pipe, diameter 75 mm to 110 mm	m	Rate Only	R	R
6,11	Supply and install PVC/uPVC pipe, diameter up to 50 mm	m	Rate Only	R	R
6,12	Supply and install PVC/uPVC pipe, diameter 63 mm to 110 mm	m	Rate Only	R	R
6,13	Supply and install pipe coupling/adaptor/reducer up to 50 mm	No.	Rate Only	R	R
6,14	Supply and install pipe coupling/adaptor/reducer 63 mm to 110 mm	No.	Rate Only	R	R
6,15	Pressure/leak test repaired section	No.	Rate Only	R	R
6,16	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>		Rate Only	R	R
6,17			Rate Only	R	R
6,18			Rate Only	R	R
6,19			Rate Only	R	R
	Total carried to summary page			R	
	Bill No.6 PIPEWORK, FITTINGS AND LEAK REPAIRS				

Item No.	Description	Unit	Quantity	Rate	Amount
7	<u>BILL No 7</u>				
	<u>VALVES AND FLOW CONTROL EQUIPMENT</u>				
	Inspect and test existing valve operation. Produce a written diagnosis and assessment report on findings as well as recommendations, if applicable.	No.	Rate Only	R	R
	7,01	No.	Rate Only	R	R
	7,02 Replace ball valve/gate valve up to 32 mm	No.	Rate Only	R	R
	7,03 Replace ball valve/gate valve 40 mm to 63 mm	No.	Rate Only	R	R
	7,04 Replace ball valve/gate valve 75 mm to 110 mm	No.	Rate Only	R	R
	7,05 Replace non-return valve up to 50 mm	No.	Rate Only	R	R
	7,06 Replace non-return valve 63 mm to 110 mm	No.	Rate Only	R	R
	7,07 Replace air-release valve	No.	Rate Only	R	R
	7,08 Replace pressure-reducing valve	No.	Rate Only	R	R
	7,09 Replace solenoid valve	No.	Rate Only	R	R
	7,10 Replace flush valve	No.	Rate Only	R	R
	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>				
	7,11		Rate Only	R	R
	7,12		Rate Only	R	R
	7,13		Rate Only	R	R
	7,14		Rate Only	R	R
	7,15		Rate Only	R	R
Total carried to summary page				R	
Bill No.7 VALVES AND FLOW CONTROL EQUIPMENT					

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No 8</u>				
8	<u>FILTERS AND PRESSURE CONTROL</u>				
	Inspect and clean the irrigation filter. Produce a written diagnosis and assessment report on findings as well as recommendations, if applicable.	No.	Rate Only	R	R
8,01					
8,02	Replace the screen/disc filter element	No.	Rate Only	R	R
	Replace the inline filter, small diameter up to 50 mm	No.	Rate Only	R	R
8,03					
8,04	Replace inline filter, 63 mm to 110 mm	No.	Rate Only	R	R
8,05	Replace pressure gauge	No.	Rate Only	R	R
8,06	Replace pressure regulator	No.	Rate Only	R	R
8,07	Repair leaking filter housing connection	No.	Rate Only	R	R
	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>				
8,08			Rate Only	R	R
8,09			Rate Only	R	R
8,10			Rate Only	R	R
8,11			Rate Only	R	R
8,12			Rate Only	R	R
	Total carried to summary page			R	
	Bill No.8 FILTERS AND PRESSURE CONTROL			R	

Item No.	Description	Unit	Quantity	Rate	Amount
9	<u>BILL No 9</u>				
	<u>EXCAVATION, BACKFILLING AND REINSTATEMENT</u>				
9,01	Excavate by hand to expose pipework, depth not exceeding 600 mm	m ³	Rate Only	R	
9,02	Excavate by hand to expose pipework, depth exceeding 600 mm and not exceeding 1.5 m	m ³	Rate Only	R	
9,03	Provide bedding material around repaired pipe	m ³	Rate Only	R	
9,04	Backfill and compact excavation using suitable excavated material	m ³	Rate Only	R	
9,05	Remove unsuitable or excess excavated material from site	m ³	Rate Only	R	
9,06	Reinstate gravel/soil surface after repair	m ²	Rate Only	R	
9,07	Protect open excavation with warning tape/barrier	Day	Rate Only	R	
9,08	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>				
9,09			Rate Only	R	
9,10			Rate Only	R	
9,11			Rate Only	R	
9,12			Rate Only	R	
9,13			Rate Only	R	
9,14			Rate Only	R	
	Total carried to summary page			R	
	Bill No.9 EXCAVATION, BACKFILLING AND REINSTATEMENT				

Item No.	Description	Unit	Quantity	Rate	Amount
	<u>BILL No 10</u>				
10	<u>TESTING, COMMISSIONING AND HANDOVER</u>				
10,01	Operational test of pump and water delivery system after repair	No.	Rate Only	R	R
10,02	Leak tests on repaired pipe section	No.	Rate Only	R	R
10,03	Test valve, control and irrigation zone operation after repair	No.	Rate Only	R	R
10,04	Completion report with photographs (before and after) and quantities.	No.	Rate Only	R	R
10,05	Update asset register after repair intervention (Including photographic evidence of before and after)	No.	Rate Only	R	R
	<u>Additional items identified by conditional assessment but not included in the breakdown above. List below:</u>				
10,06			Rate Only	R	R
10,07			Rate Only	R	R
10,08			Rate Only	R	R
10,09			Rate Only	R	R
	Total carried to summary page			R	
	Bill No.10 TESTING, COMMISSIONING AND HANDOVER				

FINAL SUMMARY

Bill No.	Trade name	Page No	Amount
1	PRELIMINARY AND GENERAL		R
2	BASELINE CONDITION ASSESSMENT AND FAULT DIAGNOSIS		R
	RATE ONLY		
3	BOREHOLE AND PUMPING EQUIPMENT		R
4	ELECTRICAL CONTROL AND PROTECTION EQUIPMENT		R
5	WATER STORAGE TANKS AND FITTINGS		R
6	PIPEWORK, FITTINGS AND LEAK REPAIRS		R
7	VALVES AND FLOW CONTROL EQUIPMENT		R
8	FILTERS AND PRESSURE CONTROL		R
9	EXCAVATION, BACKFILLING AND REINSTATEMENT		R
10	TESTING, COMMISSIONING AND HANDOVER		R
	Sub-total		R
	Add: Value Added Tax at 15%		R
	TOTAL CARRIED TO FORM OF TENDER		R

PART C3: SCOPE OF WORKS

C3.1 DESCRIPTION OF THE WORKS

The works comprise the inspection, testing, maintenance and repair of existing boreholes, pumping equipment, water-storage facilities and associated irrigation infrastructure at various GDARD agricultural facilities.

The Contractor shall provide all labour, supervision, materials, equipment, tools, transport and specialist services required to restore the water-supply systems to safe and reliable operating conditions. The work shall cover the complete water-distribution system, from the borehole and pump installations to the storage tanks, pipelines supplying the tunnels and other agricultural facilities.

C3.1.1 EMPLOYER'S OBJECTIVE

The Employer's objective is to appoint a suitably qualified and experienced Service Provider to maintain and repair the existing borehole and irrigation infrastructure at GDARD facilities. The project aims to:

- Restore non-functional or underperforming boreholes and irrigation systems;
- Ensure a reliable and continuous supply of water for agricultural activities;
- Repair water leaks and reduce unnecessary water losses;
- Improve the efficiency and operational lifespan of the existing infrastructure;
- Minimise interruptions to farming and agricultural-support activities; and
- Ensure that all installations comply with the applicable technical, environmental, health and safety requirements.

C3.1.2 OVERVIEW OF THE WORKS

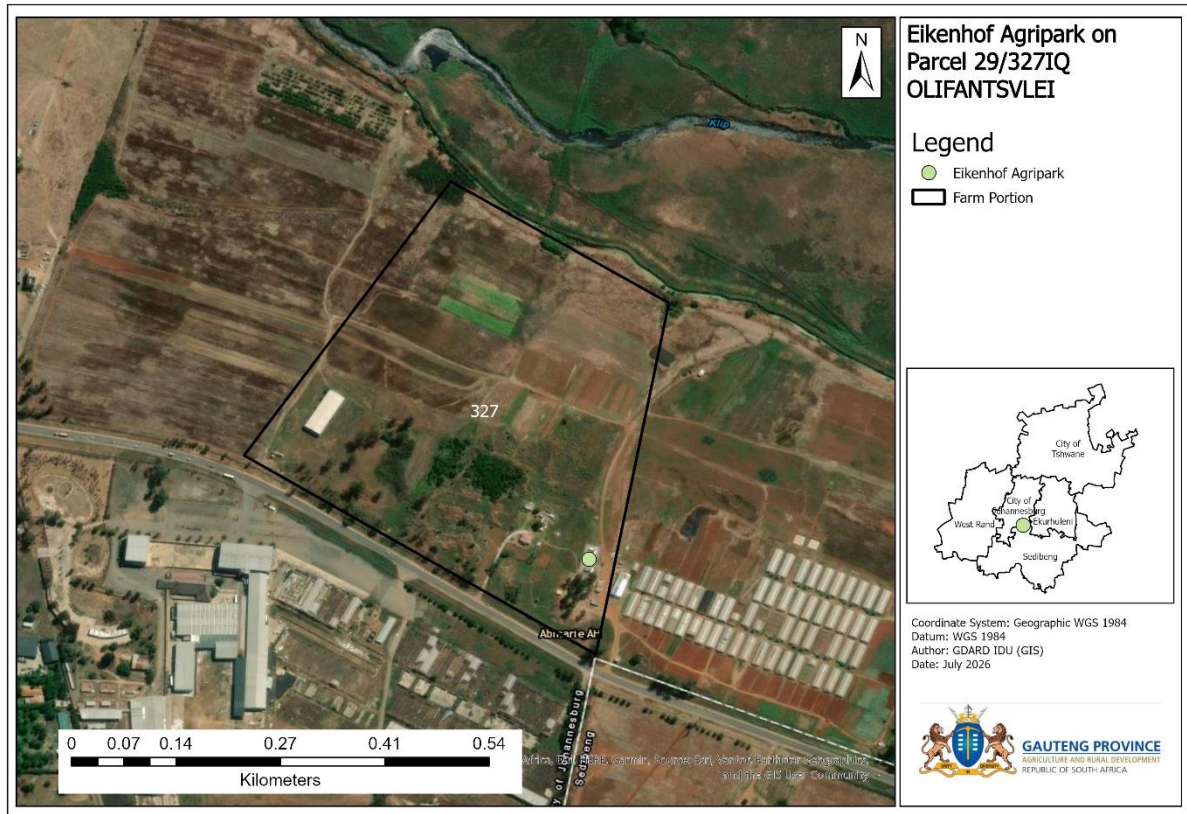
The scope of works includes, but is not limited to, the following:

1. Conducting site inspections and assessing the condition of the existing boreholes, pumps and irrigation systems;
2. Testing borehole yield, pump performance, water flow and system pressure, where required;
3. Repairing, servicing or replacing borehole pumps, motors and associated components;
4. Repairing or replacing damaged pipes, fittings, valves, non-return valves, pressure-control equipment and connections;
5. Locating and repairing leaks along the water-distribution network;
6. Repairing electrical control panels, cables, isolators, protection devices, float switches and pump-control equipment;
7. Cleaning and maintaining boreholes, where required;
8. Repairing or replacing damaged water tanks, tank connections, outlets, overflow pipes and associated fittings;
9. Repairing connections between the boreholes, storage tanks, irrigation systems and agricultural tunnels;
10. Servicing and repairing pumps, filters, valves, and related equipment;
11. Testing and commissioning all repaired or replaced equipment;
12. Reinstating areas disturbed during the execution of the works;
13. Removing and lawfully disposing of damaged or redundant materials; and
14. Submitting inspection reports, test results, commissioning records and maintenance recommendations upon completion.

C3.1.4 LOCATION OF THE WORKS

Eikenhof Agripark

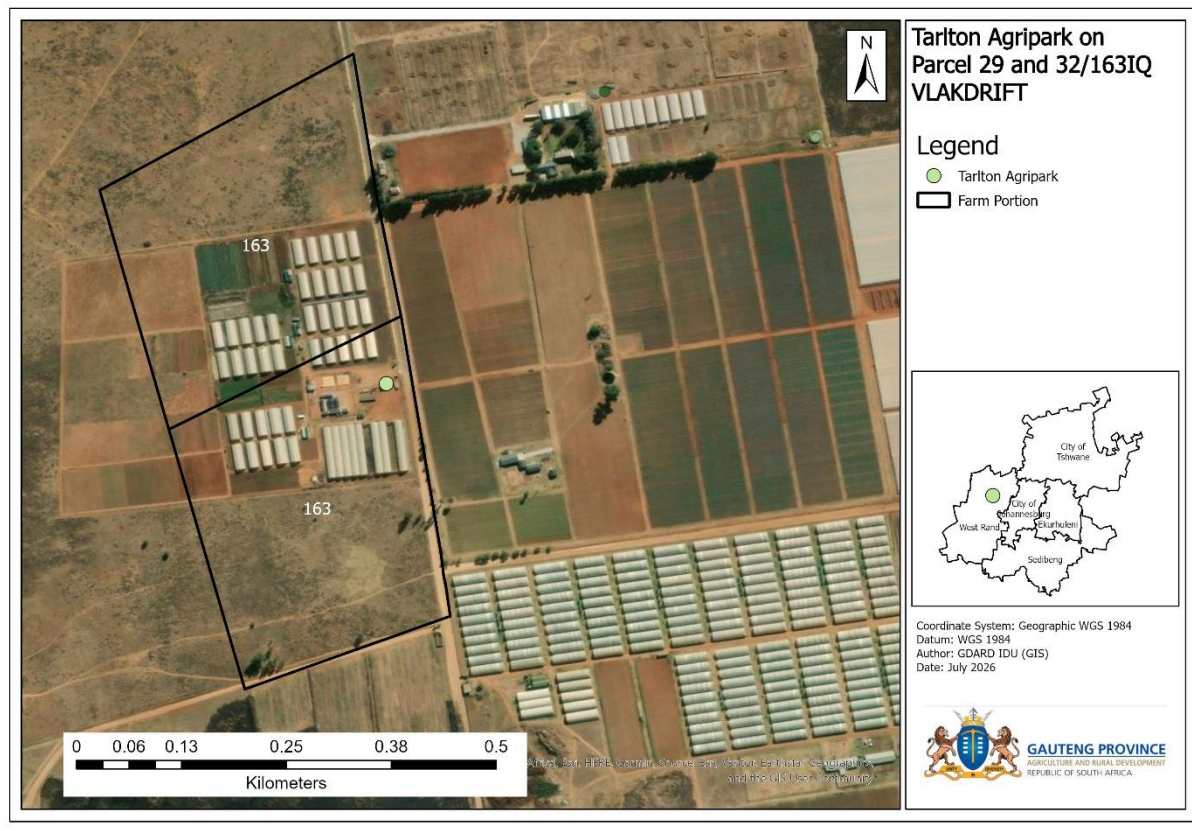
- a) Province: Gauteng.
- b) District: City of Johannesburg
- c) Local Municipality: City of Johannesburg
- d) Land Description: Portion 29 of the farm Olifantsvlei 327 IQ



OLIFANTSVLEI, 327 IQ, Portion 29 100 Kliprivier road, Plot 28/327 Along R550 Road
Eikenhof Co-ordinates: -26.33802 / 28.011321

Tarlton Agripark

- a) District: West Rand
- b) Local Municipality: Mogale City
- c) Land Description: Portion 29 and 32 of the farm Vlakdrift 163 IQ



Portion 29 and 32 of the farm Vlakdrift 163 IQ , Mogale Extension 20 , Co-ordinates: - 26.057392 / 27.66854

C3.2 ENGINEERING.

C3.2.1 DESIGN.

Milestone Description	Responsibility Matrix
Stage 6: Documentation	GDARD or Employer's Agent
SCM Processes: RFQ Advertisement and Award.	GDARD or Employer's Agent
Stage 7: Construction.	GDARD or Employer's Agent & Contractor
Stage 8: Hand Over.	GDARD or Employer's Agent & Contractor

C3.2.2 DRAWINGS.

N/A

C3.3 PROCUREMENT

C3.3.1 CONTRACTOR SERVICES

The Contractor shall provide suitably qualified and experienced personnel, adequate supervision, labour, equipment and resources necessary for the proper execution of the works.

As a minimum, the Contractor's team shall include:

Foreman: A competent Foreman with at least three (3) years' relevant experience in electrical and borehole-related works. The Foreman shall hold a valid trade certificate. A detailed CV and certified copies of all relevant qualifications and certificates must be submitted.

Contractor's Employees: Copies of valid identity documents for all employees assigned to the project must be submitted before commencement of the works.

Compensation Fund: The Contractor must provide a valid Letter of Good Standing issued by the Compensation Fund and ensure that it remains valid throughout the contract period.

The Contractor shall also ensure that all personnel appointed to perform specialised work are appropriately qualified and competent.

They have a CIBD grade 2 SH Certificate or above: "SH The development, extension, installation, maintenance, renewal, removal, alteration or dismantling, as relevant, of landscaping, irrigation and horticultural works".

C3.3.2 SUB-CONTRACTOR SERVICES

C3.3.2.1 Scope of Works for Sub-contractor Services.

Where the Contractor intends to appoint a subcontractor to perform any portion of the works, prior written approval must be obtained from the Employer or Employer's Agent.

The Contractor shall comply with Clause 4.4 of the General Conditions of Contract for Construction Works (GCC). The appointment of a subcontractor shall not relieve the Contractor of any contractual responsibility or obligation. The Contractor shall remain fully responsible for the quality, safety, coordination and timely completion of all subcontracted works.

C3.4 CONSTRUCTION

C3.4.1 WORKS SPECIFICATION

The works shall be carried out in accordance with the project specifications/scope of works, Bill of Quantities, applicable SANS standards, manufacturers' requirements and the instructions of the Employer.

C3.4.1.1 STANDARDIZED SPECIFICATION.

The Standard System of Measuring Building Work and the relevant standardised specifications applicable to civil, electrical, mechanical, borehole and irrigation work shall apply to this contract.

The project specifications, Conditional Assessment and Bill of Quantities shall be read together with the applicable standardised specifications. Where any discrepancy occurs, the project-specific requirements, Conditional Assessment and written instructions issued by the Employer's Agent shall take precedence.

C3.4.1.2 QUALITY MANAGEMENT PLAN.

The Contractor shall prepare and submit a project-specific Quality Management Plan for acceptance by the Employer before commencing the works.

The Quality Management Plan shall describe the inspection, testing, verification, record-keeping and approval procedures that will be followed to ensure that all materials and workmanship comply with the contract requirements.

QUALITY PLAN

The Contractor shall be responsible for the following:

1. Locating and carefully exposing existing services to confirm their condition, sizes and suitable fittings before ordering materials.
2. Informing the Employer of the findings and obtaining approval before placing material orders.
3. Checking all delivered materials and equipment against the approved specifications, quantities and manufacturers' requirements.
4. Inspecting and signing off all materials and equipment upon delivery.
5. Maintaining an accurate register of all materials and equipment delivered to the site.
6. Informing the Employer of all delivered materials and equipment and making them available for inspection and acceptance at least five (7) working days before installation or use.
7. Completing all required preparatory works before commencing repairs, replacements or installations.
8. Ensuring that all borehole pumps, electrical components, pipes, valves, fittings, tanks and irrigation equipment are installed in accordance with the approved specifications and manufacturers' instructions.
9. Informing the Employer to inspect all underground connections, pipes, cables and fittings before backfilling or covering the works.
10. Conducting all required pressure tests, flow tests, electrical tests, operational tests and commissioning procedures.
11. Recording all test results and submitting the relevant test certificates to the.
12. Completing and submitting the site rehabilitation register.
13. Reinstating all disturbed surfaces and leaving the site clean, safe and in an acceptable condition.
14. Obtaining a Site Possession Certificate before commencing the works.
15. Obtaining a Practical Completion Certificate after completing the works and correcting all identified defects.
16. Obtaining a Completion Certificate after completing all outstanding work and fulfilling the contractual requirements.

C3.4.1.5 COMMISSIONING

Upon completion of the installation or repair work, the Contractor shall test and commission the complete borehole, pumping, water-storage and irrigation system in the presence of the Employer.

Commissioning shall include, where applicable:

- Testing the borehole pump and motor;
- Confirming water flow, pressure and pumping performance;
- Testing electrical control panels, protection devices and float switches;
- Inspecting all pipes, valves, fittings and connections for leaks;
- Testing the filling and discharge of water-storage tanks;
- Testing the operation of the irrigation system;

- Verifying that water is effectively supplied from the borehole to the tanks, irrigation system and agricultural tunnels; and
- Submitting commissioning reports, test certificates, operating instructions and maintenance recommendations.

C3.4.2 SITE ESTABLISHED

The Contractor shall establish the site before commencing the works and shall provide all facilities, controls and resources required for the safe and efficient execution of the contract.

Site establishment shall include, but not be limited to:

- Taking possession of and securing the work area;
- Conducting a joint site inspection with the Employer or Employer's Agent;
- Identifying and protecting existing buildings, boreholes, pipelines, cables, tanks, irrigation systems and other services;
- Providing temporary fencing, barricading, warning signs and access controls where required;
- Providing temporary storage facilities for materials, tools and equipment;
- Providing suitable facilities for employees, including drinking water, sanitation and first-aid equipment;
- Implementing the approved Health and Safety Plan;
- Protecting the Employer's property and maintaining safe access for staff and facility users;
- Keeping the site clean and free from unnecessary obstructions;
- Preventing pollution and the uncontrolled discharge of water, fuel, oil or other hazardous substances;
- Coordinating planned water or electricity interruptions with the Employer;
- Removing all temporary facilities, surplus materials, rubble and waste upon completion; and
- Rehabilitating all disturbed areas and leaving the site in a clean, safe and acceptable condition.

C3.4.2.2 Facilities provided by the Contractor.

Water.

The Contractor shall, at his own expense, be responsible for obtaining and providing all water as may be needed for executing the Contract, including water for both construction purposes and domestic use, as well as for making all arrangements in connection therewith. The Contractor shall further, at his own expense, be responsible for providing all necessities for procuring, storing, transporting, and applying water required for the execution of the Contract, including but not limited to all piping, valves, tanks, pumps, meters, and other plant and equipment, as well as for all work and superintendence associated therewith.

The sources of all water utilised for the Contract shall be subject to the prior approval of the Employer or Employer's Agent and such water source authority, which approval shall not be unreasonably withheld.

The Contractor shall comply with all prevailing legislation in respect of drawing water from natural and other sources and shall, when required by the Employer or Employer's Agent, produce proof of such compliance. The distribution of water shall be carried out by the Contractor strictly in accordance with the applicable laws and regulations.

All water provided by the Contractor for construction purposes shall be clean, free from undesirable concentrations of deleterious salts and other materials, and shall comply with any further relevant specifications of the Contract. The Contractor shall, whenever reasonably required by the Employer's Agent, produce test results demonstrating such compliance. Water

provided by the Contractor for human consumption shall be healthy and potable to the satisfaction of the health authorities in the area of the Site.

No separate payment will be made to the Contractor for the obtainment, providing, and consumption of water, the costs of which will be deemed to be included in the Contractor's bidding rates.

Electricity

The Contractor shall, at his own expense, be responsible for obtaining and providing all electricity he may need for executing the Contract, including electricity for both construction purposes and domestic use, as well as for making all arrangements in connection therewith.

The electricity distribution shall be carried out by the Contractor strictly by the applicable laws and regulations.

No separate payment will be made to the Contractor for the obtainment, providing, and consumption of electricity, the costs of which will be deemed to be in the Contractor's bidding rates and prices.

Excrement disposal

The Contractor shall, at his own expense, be responsible for safely and hygienically dealing with and disposing of all human excrement and similar matter generated on the Site during the Contract, to the satisfaction of the responsible health authorities in the area of the Site and the Employer or Employer's Agent. All such excrement shall be removed from the Site and shall not be disposed of by the Contractor off-site.

The Contractor shall further comply with any other requirements in this regard as may be stated in the Contract.

No separate payment will be made to the Contractor in respect of discharging his obligations in terms of this subclause and the costs thereof shall be deemed to be included within the Contractor's bid Preliminary and General Items.

C3.4.2.3 Permits and Wayleaves.

The Contractor shall be responsible for obtaining all the wayleaves required for this Contract if applicable.