



GAUTENG PROVINCE
AGRICULTURE AND RURAL DEVELOPMENT
REPUBLIC OF SOUTH AFRICA

TERMS OF REFERENCE

ANNEXURE A: REQUEST FOR QUOTATION (RFQ)

FOR

**THE APPOINTMENT OF A SERVICE PROVIDER (SP) FOR
THE SERVICE MAINTENANCE AND REPAIRS OF DIESEL
GENERATORS AT ROOIWAL AND SOSHANGUVE AGRI-
PARKS.**

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CONTRACT

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 into a contract in respect of the following works:

SERVICE MAINTENANCE AND REPAIRS OF THE DIESEL GENERATORS AT ROOIWAL AND SOSHANGUVE AGRIPARKS

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 Bills, 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 in accordance with 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 in accordance with 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 Bills 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 Bill of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Bill, 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 Bill 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 in accordance with 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 Bill 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:

Bill of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
2. A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

1 Subject

Details

2 Subject

Details

By the duly authorised representatives signing this Bill of Deviations, the Employer and the Tenderer agree to and accept the foregoing Bill of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Bills, as well as any confirmation, clarification or change to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

THE APPOINTMENT OF A SERVICE PROVIDER (SP) FOR THE SERVICE MAINTENANCE AND REPAIRS OF DIESEL GENERATORS AT ROOIWAL AND SOSHANGUVE AGRI-PARKS.

For the Tenderer:

For the Employer:

..... Signature

.....

..... Name

.....

..... Capacity

.....

**Name and address of organisation:
organisation:**

Name and address of

.....

.....

.....

.....

.....

.....

..... Witness Signature.....

..... Witness name

..... Date

CONFIRMATION OF RECEIPT

The Tenderer, (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Bill 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:

C1.2 CONTRACT DATA

PART 1: DATA PROVIDED BY THE EMPLOYER

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, is applicable to this Contract and is obtainable from www.saice.org.za.

C1.2.2. CONTRACT SPECIFIC DATA

The following contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition (2015) are applicable 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 Certificate of Practical Completion</i>).
1.1.1.14	Due Completion Date calculated from the commencement date and as adjusted by such extensions of time or acceleration as may be allowed in terms of the contract.
1.1.1.15	The Employer is the Gauteng Department of Agriculture and Rural Development and Environment (GDARD).
1.2.1.2	Umnotho House 56 Eloff Street Johannesburg Tel: (011) 240 3332 Email: ernest.maruping@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: Re-measurement Contract
5.3.1	The documentation required before commencing with the Works are: a) OHS file and Environmental Management Plan (EMP) is required for the service maintenance and repairs of the diesel generators at Rooiwal and Soshanguve Agriparks following specification: ➤ 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) must be aligned to the scope of work. ➤ 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

Clause	Contract specific data
	➤ Occupational health and safety training matrix / plan ➤ Description of security measures The following registers ➤ 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 ➤ Templates of issuing of Personal Protective Equipment b) Initial programme of works (Refer to Clause 5.6). c) Cash-flow projection plan. d) Quality Management Plan. e) Security of 10% retention of the value of works (Refer to Clause 6.2.2). f) All Risk Insurance: provide all risk insurance equal to twice the contract sum (Refer to Clause 8.6). g) Method statement.
5.3.2	The time to submit the documentation required before commencement of the works is fourteen (14) days.
5.4.2	The access and possession of 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 prior to the tender closing date. 4) The year-end break commencing and ending on dates as 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 repairs and maintenance works as per prescribed specification and to the satisfactory of GDARD. b) The works execution methods, techniques and processes must comply to stipulated works specification and fully compliant to 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,
6.10.1.5	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	Not required.

THE APPOINTMENT OF A SERVICE PROVIDER (SP) FOR THE SERVICE MAINTENANCE AND REPAIRS OF DIESEL GENERATORS AT ROOIWAL AND SOSHANGUVE AGRI-PARKS.

Clause	Contract specific data
8.6.1.1.3	The amount to cover All risk insurance for the construction works implemented and public loss to be included in the insurance sum is R (Twice the total of the contract sum).
10.5.3	The number of Adjudication Board Members to be appointed is three

PART 2: DATA PROVIDED BY THE CONTRACTOR

Clause	Contract specific data
1.1.1.9	The name of the Contractor is
1.2.1.2	The address of the Contractor is Physical Address Postal Address Tel: Fax: Email:
6.2.1	The security to be provided by the contractor shall be the fixed performance Guarantee of 10% of the Contract Value inclusive of value added tax (vat). Alternatively, the contractor shall arrange for 10% retention of the value of works deducted from initial and/or intermediate claims until the 10% of the Contract value has been achieved.

C1.2.3: VARIATION TO THE GENERAL CONDITIONS OF CONTRACT

Clause	Contract specific data
6.10.4	In the third sentence replace “28” with “30”.

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 his/her capacity as

and

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

in his capacity as

WHEREAS the Employer is desirous that certain works be constructed, **THE APPOINTMENT OF A SERVICE PROVIDER (SP) FOR THE SERVICE MAINTENANCE AND REPAIRS OF DIESEL GENERATORS AT ROOIWAL AND SOSHANGUVE AGRI-PARKS.** and has accepted a Bid by the Mandatory for the construction, completion and maintenance of such Works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order 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 in accordance with the Contract Documents pertaining to 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 pertaining to the Mandatory and to all his subcontractors.
- 4 In addition to the requirements of Clause 8.4 of the GCC and all relevant conditions of contract mentioned above, the Mandatory agrees to execute all the Works forming part of this Contract and to operate and utilise all machinery, plant and equipment in accordance with the Act.
- 5 The Mandatory is responsible for the 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 at all times 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 further be provided with 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:**

Ms. Nomthandazo Khumalo

Deputy Director: Employee Health and Wellness

Tel: (011) 240 2669

Cell: 078 988 2612

Email: NOMTHI.KHUMALO@gauteng.gov.za

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 1

NAME 1
(IN CAPITALS)

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

THE APPOINTMENT OF A SERVICE PROVIDER (SP) FOR THE SERVICE MAINTENANCE AND REPAIRS OF DIESEL GENERATORS AT ROOIWAL AND SOSHANGUVE AGRI-PARKS.

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 _____

20____, Mr/Ms _____

whose signature appears below, has been duly authorised 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 Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all other document comprising the Contract Document, which include the Conditions of Bid, Conditions of Contract, and the project Specifications.

2 Descriptions of items in the Bill

The descriptions of the items in the Bill of Quantities serves 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 Bill

The quantities set out in the Bill of quantities are only approximate quantities. The quantities of work finally accepted and certified for payment, and **not** the quantities given in the Bill 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 Bill of Quantities and the quantities the GDARD finally certifies for payment.

4 Provisional Sums

Where Provisional sums are provided for items in the Bill of Quantities, payment for work done under such items will be made in accordance with 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 actually 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 services for which actual details of the scope of work are not defined at 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 mark-up for which a rate is offered at tender stage to cover all the tenderer's costs and profit in providing the item or services.

6 Pricing the Bill of Quantities

The prices and rates to be inserted by the Bidder in the Bill 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, with exception of the items for which only rates are required, or items which already a Prime Cost or Provisional Sums have affixed thereto. If the Bidder omits to price any items in the Bill 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 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 Bill of Quantities shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill 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 initialled by the Contractor.

8 Arithmetical Errors

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

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

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

Should between the sum written on the form of offer and tender in the pricing Bill be any discrepancies, the sum appearing in the pricing Bill 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 by means of interim progress instalments measured against actual deliverables achieved to the satisfaction of GDARD, according to the pre -approved Terms of Reference.

10 Units of Measurement

The units of measurement described in the Bill of Quantities are metric units which consist of standard international and non-standard abbreviations as follows:

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No.	= number
%	= percent
Sum	= Lump sum
PC sum	= Prime Cost sum
Prov. sum	= Provisional Sum
Month	= Calendar Month
mm	= millimetre
m	= metre
km	= kilometre
km-pass	= kilometre-pass
m ²	= square metre
m ² -pass	= square metre-pass
ha	= hectare
m ³	= cubic metre
m ³ -km	= cubic metre-kilometre
kW	= kilowatt
kN	= kilonewton
kg	= kilogram
t	= ton (1 000 kg)
%	= per cent
MN	= meganewton
MN-m	= meganewton-metre
psi	= pounds per square inch

C2.2 BILL OF QUANTITIES

2.2.1 Please see the preliminary and general references on attached Annexure B.

2.2.2 Please see the Bill of Quantity (BOQ) on attached Annexure C.

PART C3: SCOPE OF WORKS

C3.1 DESCRIPTION OF THE WORKS

C3.1.1 EMPLOYER'S OBJECTIVE

The objective of GDARD (employer) is to undertake service maintenance and repairs of a diesel generators at Rooiwal and Soshanguve Agriparks to guarantee the conformity, quality and functionality of diesel generators by ensuring the following:

- Preventing unnecessary breakdowns
- Following the manufacture 's compliance and recommendations
- Follows the service maintenance oof the generator and extend the life spen of the diesel generator

C3.1.2 OVERVIEW OF THE WORKS

The scope of work entails the service maintenance and repairs of a diesel generators the Rooiwal and Soshanguve Agriparks.

1. Service maintenance and repairs for all existing diesel generators should include, amongst others:

1.1 Engine system

- Supply and change the engine's oil and ensure no oil spillage.
- Supply and change the engine 's oil filter and ensure no oil spillage
- Supply and change the engine's oil corrosion filter and ensure no oil spillage.
- Check and inspect the low oil pressure safety switch for any damages, if damaged replace it.
- Check and inspect for oil pressure switch any cracks or damages, replace if is damaged.
- Check and inspect oil sensor for any cracks or damages, replace if is damaged.
- Check and inspect engine block for cracks and damages, replace if is damaged.
- Check and run test for defect or damage on all engine component e.g. (*piston, bearing, cam shaft, rings, piston rings, etc*) if damage replace them.
- Check and inspect (oil drain, diesel drain and overflow valve, breather and genset fuel return connections, genset fuel supply) for leakage if not, repair or replace.
- Check and inspect water supply line for any cracks and damages, replace if is damaged.
- Check and replace all perishable or brittleness of ducting pipes for water coolant, air ducting, fuel ducting (*fuel line*) and oil ducting pipes.
- Check for any damages of the sealer on the engine and the alternator and rectify where necessary.
- Check and inspect anti vibration mounting for any cracks or damages, replace if is damaged.
- Check and inspect skid base for any cracks or damages, replace if is damaged.
- Check and inspect earthing for any loose connection, tighten the connections.
- Check and inspect inlet lures for any blockages, unblock or remove the blockage.
- Check that all bolts and screws are properly secured on all component of the e.g. (***starter, battery terminals, alternators, engines, etc.***).

1.2 Fuel system

- Supply and fill in 100 litres of diesel generator fuel into the diesel tank
- Supply and change the fuel filter

- Supply and change the fuel separator (*pre fuel filter / primary fuel filter*).
- Check and inspect fuel dip stick for any damages, replace it if damaged.
- Supply and ensure that fuel is filled with diesel to a full capacity.
- Check and inspect pre fuel priming pump for any defects or damages, replace it.
- Check and inspect fuel injection pump for any defects or damages unclogged or replace it.
- Check and test injectors for blockage, replace for any damages or any defects,
- Check and test fuel injectors lines for blockage replace for any defects
- Check and inspect fuel shut off wall for any damages, if damaged replace it.
- Check and inspect fuel level indicator is functioning well, if not replace.
- Check and inspect fuel tank for leakage if not, repair or replace.
- Check and inspect turbocharger for any damages, if damaged replace it.
- Check and inspect oil sump for any leakages and damages, if damaged replace it.

1.3 Radiator system

- Supply and change coolant water in the radiator coil
- Check and clean radiator coil of engine for any outside cloggages.
- Check and inspect for any leakage on the radiator coil if any replace the radiator.
- Check and clean by flushing out any rust or dirt residues on the inside radiator coil of the engine.
- Check and inspect radiator fan blades and motor for any damages, if damaged replace it.
- Check and inspect our radiator grill for any damages, if damaged replace it.
- Check and inspect water temperature switch for any damages, if damaged replace it.
- Check and inspect sensor for any damages, if damaged replace it.

1.4 Air system

- Supply and change with the existing air filter,
- Check and inspection air housing for air leakage and repair or replace if damaged.
- Check and inspect air breather for air leakage, blockage and damages, unblock , repair or replace.
- Check and inspect inlet manifold for air leakages and damages, repair or replace
- Check and inspect silencer for any damages, if damaged repair or place it.
- Check and inspect air lure for any damages, if damaged replace it.
- check and inspect flexi bellow for any damages, if damaged replace it.
- Check and inspect isolation for any damages, if damaged replace it.
- Check and inspect after cooler for any damages, if damaged replace it.

1.5 Starter motor

- Check and inspect the faulty starter for any damaged or defect for e.g. (***Bendix drive and fork, small gear, solenoid, yoke, brushes and brush holder, field coils, armature windings, DE bushes etc***) if damage replace it.

1.6 Dynamic DC charger

- Check and inspect the starter's housing if damaged replaced it
- Check and inspect flywheel's teeth for damages if any replace it.
- Check and inspect for ignition key for any damages, if damaged replace it.
- Check and inspect properly cables with ignition starter and the battery correct if damaged.

1.7 Battery system

- Supply and install battery 12 Volt 120AH 683 deep cycle Sealed maintenance free

- Check and inspection for the battery's electrolyte level correct if not level fill with electrolyte
- Check and test the for the battery's correct 12V as output if not replace by supplying the battery.
- Check and inspect the battery's charger (*Dynamo DC charger 35 amps*) for any defect or damages replaced if any.

1.8 Alternator

- Check, inspect and supply and install for AVR / contactor for any damages, if damaged replace it.
- Check and inspect for cooling fan for any damages, if damaged replace it.
- Check and inspect for shaft for any damages, if damaged replace it.
- Check and inspect for the alternators bearing for any damages, if damaged replace it.
- Check and inspection for output terminals for any damages, if damaged replace it.
- Check and inspect for exciter for any damaged, if damaged replace it.
- Check and inspect for rectifier for any damaged, if damaged replace it.
- Check and inspect for stator for any damages, if damaged replace it.
- Check and ensure the foundation and the fan cover are in good condition, if not replace is loose tighten the nuts.
- Check all electrical devices and connections and correct if necessary.

1.9 Control box panel

- Check, test, supply and install for 7 single pole breaker or different single pole breaker for any damages if damage replace it.
- Check, test, supply and install relays for any damages, if damaged replace it.
- Check, inspect supply and install for any blurred glass of the control module and replace it.
- Check, inspection supply and install Automatic Transfer Switches (ATS) for any damages, if damaged replace it
- Check and test emergency stop button for any damages, if damaged replace it.
- Check and test external emergency stop button for any damages, if damaged replace it.
- Check and test buzzer for any damages, if damaged replace it.
- Check and inspect circuit breaker for any damages, if damaged replace it.
- **NB. Test for all the diesel generator wires for functionality and give fault finding report whether it will be maintainable and give the cost for rewiring the burnt electrical generator connection.**
- **Rewire all burnt electrical connections on diesel generator**
- **Inspect, Repair, Test and Issue Certificate of Compliance's (COC's) for the rewired diesel generator.**

2. Structural steel cage must be repaired and replaced for all existing cage at Rooiwal and Soshanguve Agirparks.should include, amongst others:

- Repair the damage structural steel gate by remove the existing bullet hinges.
- Supply and weld by replacing with 100 x 25 Kontos Bullet Hinges for the three diesel generator
- Supply and install ultra lock for the steel cage door three diesel generator

3. Painting of the existing structural steel cage and the diesel generator must include, amongst other;

3.1 Protection of equipment

- Protect paint from contaminating the generator components
- Prepare and seal all rubbers, buttons, labelling, numbering, markings, rubber hoses, all cables and important generator items to allow to refurbish the diesel

3.2 Preparing the surface

- Prepare by sandy and remove rusted from

- Remove loose rust, flaking paint, by means of power tool cleaner (wire brushing, grinding, sanding, abrasive blasting where necessary)
- Remove oil, grease, dirt and contaminants using a suitable degreaser
- Clean the area after sanding or removing the dust to allow painting
- generator.

3.3 Rust treatment

- Apply a phosphoric acid-based rust converter to areas where complete rust removal is not possible.
- Allow curing in accordance with the manufacturer's recommendations.

3.4 Primer

- Apply one coat of epoxy zinc phosphate or epoxy anti-corrosive primer
- Supply and spray paint with a one coat of brilliant green anti rust primer NS4 primer paint for the structural steel cage
- Supply and spray paint with a one coat of white anti rust primer NS4 primer paint for the diesel generator

3.5 Finish Coat

- Supply and spray paint with a second coat of brilliant green polyurethane paint for the structural steel cage
- Supply and spray paint with a second coat of satin white polyurethane paint for the diesel generator

4. Alteration for electrical plug installation for Rooiwal and Soshanguve Agriparks must include, amongst others:

Hacking off wall

- Mark the location of the electrical plug in accordance with the approved electrical standard
- Hack off existing wall finishes and masonry as required to install a recessed electrical 4x4 plug socket, conduit, and back box
- Hack off existing wall 40mm x 50mm for allowance 25mm PVC conduit pipe
- Supply and install 25mm PVC conduit pipe and secure the alignment
- Supply and install Flush
- Supply and mix cement-sand mortar (1:4 mix) for making good
- Plaster the to match existing finish

5. Electrical works for all existing building and generator should include, amongst others:

Electrical works at Rooiwal Agriaprk (Security, residential container and Office)

- Supply and install LED 100W IP65 spotlight for outside security container
- Supply and install 2,5m of 25 mm PVC conduit for 4 x4 plug for office
- Supply and install 5mm of 2,5mm² twin & earth for 4x4 plug for office
- Supply and install 4x4 double plugs 2 each for security container and 2 each for inside and outside plugs office
- Supply and install a dedicated 20A, 3kA circuit breaker CBI mini rail for 4x4 plug for the Office DB
- Supply and install 5m off 16mm x 4 Core Armoured cable for the left diesel generator
- Supply and install 10m off 16mm x 4 Core Armoured cable for the right diesel generator
- Supply and install 1015 x 880 x 205 mm IP 55 mild steel encloser- double door next to the generator
- Supply and install 4FT double LED fitting with LED tubes 2 each for security container, 1 and 1 each for residential container and office
- Supply and Install surge protector within the DB for security container, DB next to the generator and main office DB
- Inspect, repair, test and issue Certificate of Compliance's (COC's) of the three DB namely Security container, DB next to the generator and main office DB

5.1 Electrical works at Soshanguve Agripark

5.1.1 Office

- Supply and install 2,5m of 25 mm PVC conduit for 4x4 plug
- Supply and install 5mm of 2,5mm² twin & earth for 4x4 plug
- Supply and install 1 off 4x4 double plugs
- Supply and install 1 off a dedicated 20A, 3kA circuit breaker CBI mini rail for 4x4 plug
- Supply and install 1 off 4FT double LED fitting with LED tubes
- Supply and install 1 off 4x4 2 lever 1 way switch
- Supply and install surge arrestor for the DB

5.1.2 Staff House No.3

- Supply and install 1 off 4x4 double plugs
- Supply and install 1 off 4FT double LED fitting with LED tubes

5.1.3 Staff House No.2

- Supply and install 2 off 4x4 double plugs
- Supply and install 1 off 4FT double LED fitting with LED tubes
- Supply and install 1 off LED 100W IP65 spotlight for front veranda
- Supply and install 1 off 4x4 2 lever 1 way switch to connect the LED tubes and LED spotlight

5.1.4 Staff House No.1

- Supply and install 2 off 4x4 double plugs
- Supply and install 1 off 4FT double LED fitting with LED tubes
- Supply and install 1 off 4x4 1 lever 2 way switch

5.1.5 Kitchen

- Supply and install 1 off 4FT double LED fitting with LED tubes
- Supply and install 3 off 4x4 double plugs
- Supply and install 60A 4x4 stove isolator switch
- Supply and install 1 off LED 100W IP65 spotlight
- Supply and install 1,5mm² surfix cable for the outside light
- Supply and install 1 off day-night switch for the spotlight
- Supply and install 1 off 10A contactor for the spotlight
- Supply and install 20A, 3kA Circuit Breaker CBI mini rail for the spot light
- Supply and install flush mount DB of same kind
- Supply and install 20m off 10mm x 3 core armoured cables from the Kitchen's Db to Ablution DB
- Supply and install surge arrestor for the DB

5.1.6 Ablution Block

Male Toilet

- Supply and install 2 off 4FT double LED fitting with LED tubes
- Supply and install 1 off 4x4 2 lever 1 way switch

Female Toilet

- Supply and install 2 off 4FT double LED fitting with LED tubes
- Supply and install 1 off 4x4 2 lever 1 way switch

5.1.7 Security gate lights

- Supply and install 1 off LED 100W IP65 spotlight
- Supply and install 1 off day-night switch for the spotlight
- Supply and install 1 off 10A contactor for the spotlight

5.1.8 Installation from the generator to Kiosk

- Supply and install 10m off 16mm x 4 Core Armoured cable
- Supply and instal 2 off 20A, 3kA Circuit Breaker CBI mini rail

5.1.9 Installation from generator to Main DB

- Supply and install 10m off 16mm x 4 Core Armoured cable
- Supply and instal 2 off 20A, 3kA Circuit Breaker CBI mini rail
- Supply and install orange double door 3 x 32 SAM 3 Phase DB

- Supply and install surge arrestor for the DB

5.1.10 Installation of Main DB to Secondary DB, Secondary to Third DB, Third DB to Fourth DB

- Supply and install 150m off 16mm x 4 Core Armoured cable for Main DB to Secondary DB
- Supply and install 170m off 16mm x 4 Core Armoured cable for Secondary to Third DB
- Supply and install 170m off 16mm x 4 Core Armoured cable for Third DB to Fourth DB
- Supply and install surge arrestor for the DB for Main DB to Secondary DB, Secondary to Third DB and Third DB to Fourth DB
- Supply and instal 2 off 20A, 3kA Circuit Breaker CBI mini rail for Main DB to Secondary DB, Secondary to Third DB and Third DB to Fourth DB
- Supply and install 1 off orange double door 3 x 32 SAM 3 Phase DB for Main DB to Secondary DB, Secondary to Third DB and Third DB to Fourth DB
- Supply and install 1 off CBI 63 A 1P+N earth leakage Isolator 6KA for Main DB to Secondary DB, Secondary to Third DB and Third DB to Fourth DB

6. Excavation works for Rooiwal and Soshanguve Agriparks existing must include, amongst others:

6.1 Rooiwal works

- Excavate a trench of 300mm(W) x 700mm (D) x 8m (L) from the koisk to generator for 16 mm x 4mm core 1000V electrical cables for right diesel generator
- Earth filling obtained from the excavations and/or prescribed stockpiles on site, backfilling in situ material and compact for right diesel generator
- Excavate a trench of 300mm(W) x 700mm (D) x 3m (L) from the koisk to generator for 16 mm x 4mm core 1000V electrical cables for left diesel generator
- Earth filling obtained from the excavations and/or prescribed stockpiles on site, backfilling in situ material and compact for left diesel generator

6.2 Soshanguve Works

- Excavate a trench of 300mm(W) x 700mm (D) x 5m (L) from the koisk to generator for 16 mm x 4mm core 1000V electrical cables
- Earth filling obtained from the excavations and/or prescribed stockpiles on site, backfilling in situ material and compact for koisk to generator
- Excavate a trench of 300mm(W) x 700mm (D) x 25m (L) from the koisk to Main DB for 16 mm x 4mm core 1000V electrical cables
- Earth filling obtained from the excavations and/or prescribed stockpiles on site, backfilling in situ material and compact for koisk to Main DB
- Excavate a trench of 300mm(W) x 700mm (D) x 150m (L) from main DB to Secondary DB for 16 mm x 4mm core 1000V electrical cables
- Earth filling obtained from the excavations and/or prescribed stockpiles on site, backfilling in situ material and compact for main DB to Secondary DB
- Excavate 300mm(W) x 700mm (D) x 170m (L) from secondary DB to Third DB for 16 mm x 4mm core 1000V electrical cables
- Earth filling obtained from the excavations and/or prescribed stockpiles on site, backfilling in situ material and compact for secondary DB to Third DB
- Excavate 300mm(W) x 700mm (D) x 170m (L) from secondary DB to fourth DB for 16 mm x 4mm core 1000V electrical cables
- Earth filling obtained from the excavations and/or prescribed stockpiles on site, backfilling in situ material and compact for secondary DB to fourth DB

6.3 Backfilling of trenches excavated for electrical underground electrical cable

6.3.1 Bedding Material

- The bottom of the trench shall be free from rocks, stones, debris, and sharp objects.
- A layer of approved sifted soil or clean river sand, not less than 75 mm thick, shall be placed below the cable

- The cable shall be laid on the bedding as specified on the drawings

6.3.2 Initial Backfill

- Following cable installation, the cable shall be covered with a minimum 150 mm layer of sifted soil or clean sand
- The material shall be free from stones larger than 10 mm and any deleterious matter that may damage the cable

6.3.3 Installation of Danger Tape

- An approved underground electrical warning tape shall be installed continuously above the cable route
- The warning tape shall be bright red in colour and clearly marked

6.3.4 Final Backfilling

- After installation of the warning tape, the remainder of the trench shall be backfilled with approved excavated material free from large stones, organic matter, and debris
- Backfill shall be placed in layers not exceeding 150 mm thickness
- Each layer shall be compacted to at least 93% Mod AASHTO density or as specified by the Engineer

6.3.5 Surface Reinstatement

- The Contractor shall reinstate the surface to its original condition
- Existing paving, concrete, asphalt, grass, or landscaping disturbed during excavation shall be restored to the satisfaction of the Employer
- All surplus material shall be removed from site

6.3.6 Inspection and Approval

- No backfilling shall commence until the cable installation has been inspected and approved by the Employer's Agent
- The Contractor shall notify the Employer agent at least 24 hours

C3.1.4 LOCATION OF THE WORKS

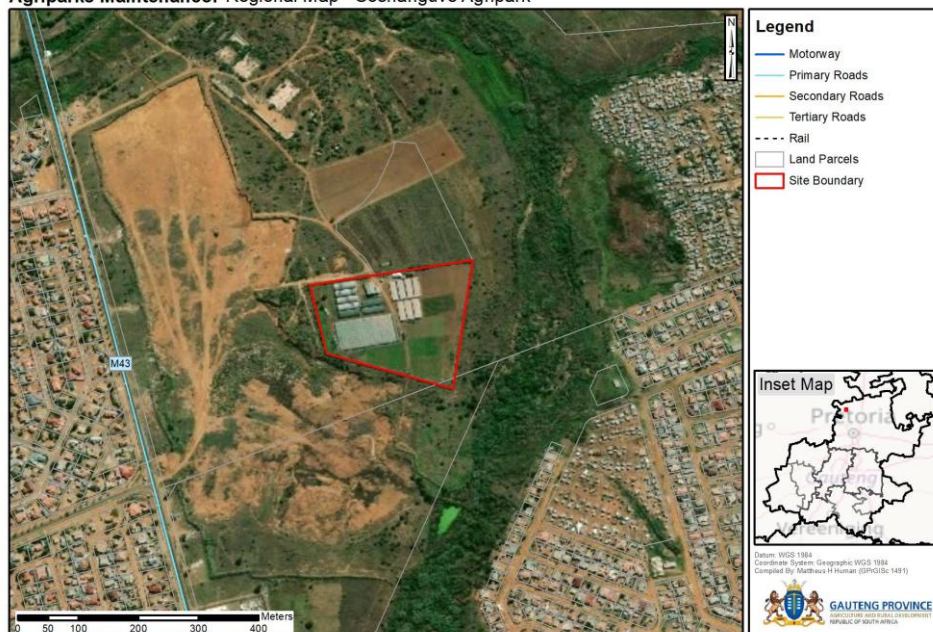
- a) Country: Republic of South Africa.
- b) Province: Gauteng.

Site	Local Municipality	Coordinates	Land Description
Soshanguve	City of Tshwane	-25.466875,28.10770	Rietgat Urban Farming Portion 48, Soshanguve Block KK, Region 1, Ward 96.
Rooiwal	City of Tshwane	-25.5572362,28.26352	270 JR, Road 101& D327.

Agriparks Maintenance: Regional Map - Rooiwal Agripark



Agriparks Maintenance: Regional Map - Soshanguve Agripark



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.

No attached drawings

C3.3 PROCUREMENT

C3.3.1 CONTRACTOR SERVICES

The Service Provider team must consist of at least:

- a) Foreman, artisan or aircon technician - Three years (3) minimum construction experience in ME, EB, EP or CE and related works. The foreman or artisan must also have previous experience relating to diesel generators.

C3.3.2 SUB-CONTRACTOR SERVICES

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

The contractor shall comply with clause 4.4 of the GCC.

C3.4 CONSTRUCTION

C3.4.1 WORKS SPECIFICATION

C3.4.1.1 STANDARDIZED SPECIFICATION.

The project specification has been derived from the Standard System of Measuring Building Work standardized specification.

C3.4.1.2 QUALITY MANAGEMENT PLAN.

QUALITY PLAN

The contractor is responsible for,

- 1) Exposing the existing services to confirm suitable fittings prior to ordering material. Inform GDARD for acceptance and approval prior to proceedings of works.
- 2) Checking delivered material against specification.
- 3) Sign-off delivered material.
- 4) Record the delivered material.
- 5) Inform GDARD or Employer's Agent of all delivered material for approval or acceptance 5 working days prior to use.
- 6) Complete preparatory work and works.
- 7) Complete site rehabilitation.
- 8) Obtain practical completion certificate.
- 9) Obtain final completion certificate.

C3.4.1.5 COMMISSIONING

The employer's Agent is responsible to update condition assessment database at practical completion.

C3.4.2 PERFORMANCE PERIOD

- a) Planned Contract Performance period: 147 working days / (7 month and four days) from appointment date up to practical completion date.
- b) Defects liability period: 90 days measured from the practical completion date.

C3.4.2 SITE ESTABLISHMENT

The project is located at the Rooiwal and Soshanguve Agriparks with basic services which are available for the contract execution with prior arrangement the contractor must make.

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 the purposes of 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 purposes of 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 bidden rates.

Electricity

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

The distribution of electricity shall be carried out by the Contractor strictly in accordance with 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 bidden 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 course of 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 sub clause and the costs thereof shall be deemed to be included within the Contractor's bidden Preliminary and General Items.

Protection of works

The contractor must protect the works and arrange operations to minimize inconvenience to the public and traffic. This includes providing and maintaining temporary works, lights, barricades, fencing, and guarding.

Responsibility for materials

The contractor is responsible for the safekeeping of materials and must replace any stolen or damaged materials at their own cost.

Risk of damage

The contractor is responsible for the full risk of damage to or destruction of the works during construction. They must take precautions and security measures to protect the works.

Health and safety

The contractor must create a health and safety plan that addresses hazards and provides a safe working environment. They must also investigate incidents and issue copies to the Employer's Health and Safety Agent.

C3.4.2.3 Permits and wayleaves

The Contractor shall be responsible to obtain all the wayleave requi