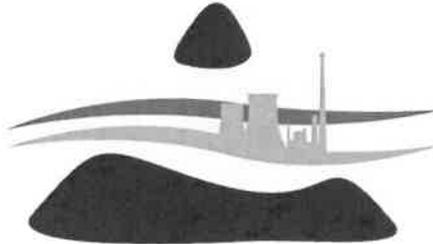


**FEZILE DABI  
DISTRICT MUNICIPALITY**



**BID DOCUMENT**

**NOTICE NO: 060/2022-23**

**PROCUREMENT OF A MAINTENANCE AGREEMENT FOR REPAIRS AND  
MAINTENANCE OF GENERATORS AND UPS**

**CLOSING DATE 19 JUNE 2023 @ 12:00PM**

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PREPARED FOR/BY:

FEZILE DABI DISTRICT MUNICIPALITY  
P.O.BOX 10  
SASOLBURG  
1947

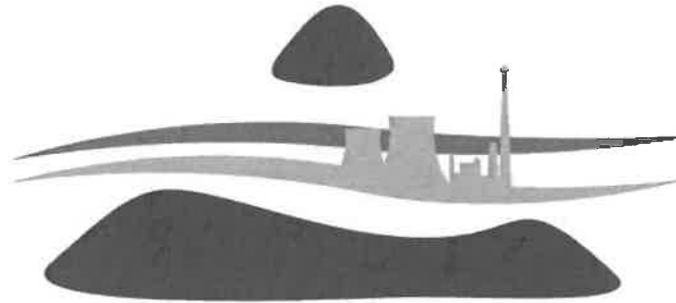
TEL: (016) 970 8600  
FAX: (016) 970 8762

ENQUIRIES: SCM UNIT  
(016) 970 8600 OR

---

BIDDER: \_\_\_\_\_

BID AMOUNT (VAT INCL.): \_\_\_\_\_



## **FEZILE DABI DISTRICT MUNICIPALITY**

**NOTICE NUMBER: FDDM 060/2022-23**

Date: 13 June 2023

Dear: Service provider

### **Request for Formal Written Quotation**

Kindly furnish Fezile Dabi District Municipality with a written quotation for the supply of the goods / services as detailed on the below schedule.

### **PROCUREMENT OF A MAINTENANCE AGREEMENT FOR REPAIRS AND MAINTENANCE OF GENERATORS AND UPS**

#### **SPECIFICATIONS**

Kindly refer to the attached specification

The quotation must be submitted on the letterhead of your business and can be delivered by hand not later than the 19 June 2023 before 12h00 to: Supply Chain Management Unit of Fezile Dabi District Municipality.

The following conditions will apply:

- Prices quoted must be valid for at least (30) days from the date of your offer.
- In a case of an event, preference will be given to local service providers
- Prices quoted must be firm and must be inclusive of vat.
- A firm delivery period must be indicated, **NOT LONGER THAN 7 WORKING DAYS AFTER ORDER.**
- For all transaction, SARS tax Clearance certificate must be furnished.

- The service provider **MUST** complete MBD4, MBD6.1 and MBD8 forms, failure to complete those forms will lead to disqualification.
- Copy of company registration reflecting equity owned by the members and status.
- All service providers are requested to submit a valid BBBEE VERIFICATION CERTIFICATE together with a quotation, to claim points on special goals in every procurement.
- All quotations will be evaluated in terms of preferential points system as prescribed in the preferential procurement policy regulation of 2022 and adopted by council on the 28 February 2023.
- Only companies registered on the CSD will be considered.
- Municipal rates & taxes information in the bid document must be duly completed by Local Municipality or Landlord stamp or lease agreement with Landlord municipal rates and taxes or Affidavit with Landlord municipality rates and taxes.
- Certified ID copy/copies of the Director/s of the company.
- Central Supplier Database (CSD) registration number/summary report must be attached to the tender/bid document.

**POINTS ALLOCATION FOR 80/20 PRINCIPLE:**

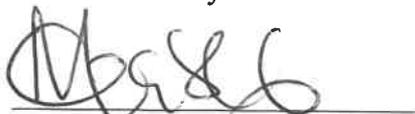
- ❖ PRICE 80
- ❖ BBBEE Status 20

<b><u>Special Goals</u></b>	<b><u>Points Allocation</u></b>
Black owned (more than 51%)	10
Women owned (more than 51%)	5
Youth owned (more than 51%)	5

Failure to comply with these conditions may invalidate your offer.

NB: Forms for claiming preferential points are available from Supply Chain Management unit offices at a non- refundable cost of R50.00 per copy. **Bidders are welcome to request the bid document from SCM unit to be emailed for free.**

Yours Faithfully



M Choshane  
ACTING CHIEF FINANCE OFFICER

## Service Specifications – Generator and UPS Equipment

(2023)

Procurement of a Service Provider in terms of a Maintenance Agreement for scheduled maintenance as well as breakdown repairs and replacement of irreparable Generator parts as well as UPS equipment at two buildings in Sasolburg and one building in Frankfort for the Fezile Dabi District Municipality

In terms of the Agreement the Service Provider will carry out the installation, servicing and maintenance of the Client's generator and UPS equipment as described in the Service Specifications document.

### NOTE:

- a) ANY INFORMATION OR QUOTED AMOUNT REQUIRED IN THIS DOCUMENT (INCLUDING SERVICE SPECIFICATIONS RATES AND THE BILL OF QUANTITIES PAGE) THAT IS NOT COMPLETED IN FULL WILL AUTOMATICALLY DISQUALIFY THE TENDERER.
- b) ALL PRICES MUST INCLUDE V.A.T.
- c) ATTACHED PROOF AND DOCUMENTATION AS REQUESTED UNDER "Points awarded for quality and functionality" IN THE TENDER DOCUMENT.
- d) PROVIDE PROOF OF GENERATOR AND UPS EQUIPMENT REPAIR EXPERIENCE ON THE FOLLOWING EQUIPMENT:
  - VOLVO PENTA TAD731GE
  - 100KVA AND HIGHER MARELLI THREE-PHASE SYNCHRONOUS GENERATOR
  - DEEP SEA ELECTRONICS GENSET CONTROLLERS
  - SOCOMEC/SUNTREE CHANGE OVER SWITCHGEAR FOR GENERATORS
  - DSP3000, 30KVA UPS FROM D POWER
  - UPS MODEM AND SOFTWARE
- e) PROVIDE PROOF OF REGISTRATION AS 3 PHASE INSTALLATION ELECTRICIAN AT THE DEPARTMENT OF LABOUR UNDER REGULATION 11(1) OF THE ELECTRICAL INSTALLATION REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, ACT 85 OF 1993. (Proof as well as registration number must be submitted.)
- f) PROVIDE PROOF THAT SERVICE PROVIDER IS REGISTERED WITH THE DEPARTMENT OF LABOUR AS ELECTRICAL CONTRACTOR as per REGULATION 6 OF THE ELECTRICAL INSTALLATION REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, ACT 85 OF 1993.
- g) PROVIDE PROOF OF UP TO DATE AND VALID CIDB REGISTRATION WITH MINIMUM LEVEL AND CLASS OF EB2.
- h) PROVIDE PROOF OF ADDRESS OF THE SUPPLIER'S CLOSEST DEPO TO THE SERVICING SITES.

# Service Specifications – Generator and UPS Equipment

## SERVICE SPECIFICATIONS

**ALL SERVICES TO BE CARRIED OUT AS PER THIS MINIMUM SPECIFICATIONS AND ALL WORK TO COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993).**

### **A. Generator Set Main Building Sasolburg**

1. **Service Generator Set** as per attached Main Building Sasolburg Equipment list.
2. Take special care of the following items and **issue a report** on the items serviced -as well as the condition of the equipment, including possible replacement of parts or repairs:

#### **2.1 Generator set Drive Motor**

- 2.1.1 Check oil level before service and note it down.
- 2.1.2 Check fuel level before service and note it down.
- 2.1.3 Replace oil filter with OEM filter.
- 2.1.4 Oil service (replace oil with 15W/40 VDS-2. ACEA: E3, E5. API: CG-4, CH-4 or higher specification).
- 2.1.5 Replace air filter with OEM filter.
- 2.1.6 Replace diesel filter with OEM filter.
- 2.1.7 Check the battery floating charger and that the battery is at the correct floating voltage when machine is not running.
- 2.1.8 Check oil level.
- 2.1.9 Check coolant level.
- 2.1.10 Note coolant temperature before starting the machine.
- 2.1.11 Check water jacket heater functionality.
- 2.1.12 Measure water jacket heater temperature before starting the machine.
- 2.1.13 Check that air intake on machine is not obstructed.
- 2.1.14 Start machine and check for water, diesel and oil leaks.
- 2.1.15 Note down oil pressure.
- 2.1.16 Check that alternator charging system for 12V battery is charging at correct voltage and rate.
- 2.1.17 Switch off machine after 7 minutes no load running (Never run machine more than 10 minutes at no load).
- 2.1.18 Check condition of 12V battery and battery terminal connections.
- 2.1.19 Check that battery condition indicator is green and note last replacement date of battery.
- 2.1.20 Replace battery if older than 3 years (Rate as quoted under F)
- 2.1.21 Re-check oil level.
- 2.1.22 Do a load test on machine and note the following after running the machine for 15 minutes on load:
  - 2.1.23 Coolant temperature
  - 2.1.24 Oil pressure
  - 2.1.25 Generator voltage ( $V_{gen}$ )
  - 2.1.26 Generator frequency ( $f_{gen}$ )
  - 2.1.27 Battery voltage ( $V_{bat}$ )
  - 2.1.28 Machine Hours
  - 2.1.29 Machine Maintenance Hours
  - 2.1.30 Mains Voltage ( $L_1-L_2$  &  $L_2-L_3$  &  $L_3-L_1$ )
  - 2.1.31 Mains frequency ( $f$ )
  - 2.1.32 Clean canopy inside and outside and ensure that radiator and all air louvers are free from debris and other obstruction materials

## Service Specifications – Generator and UPS Equipment

2.1.33 Repaint exhaust on outside of canopy

### 2.2 Synchronous Generator

- 2.2.1 Check that the generator operates smoothly, without noise or irregular vibrations due to bearing deterioration.
- 2.2.2 Check that the operating data complies with that on the rating plate.
- 2.2.3 Check that the generator's air inlet is not obstructed.
- 2.2.4 Check that the supply cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.
- 2.2.5 Check that screws and nuts are firmly tightened.
- 2.2.6 Do Infrared Imaging Survey on Generator Terminals.

### 2.3 Genset Controller & Control interface

- 2.3.1 Check that controller is functioning
- 2.3.2 Check that all safety alarms and cut outs (i.e. Over Temperature, Low Coolant Level, Low Oil Pressure, and Low Fuel Level) are functional.
- 2.3.3 Check that Modem correctly transmits start up, shut down, fuel levels and alarm conditions.
- 2.3.4 Ensure that auto and manual functions can be selected and that they are functional.
- 2.3.5 Select auto function and simulate power failure to see that Genset is starting up, running and correctly shutting down when the condition is cleared.
- 2.3.6 Ensure that all fault conditions are cleared and that controller is set to "AUTO" after the service and checks have been completed.

### 2.4 Change Over Switch

- 2.4.1 Check that the change-over switch operates smoothly, without noise or irregular vibrations after the action is completed.
- 2.4.2 Check for signs of overheating or melting of the enclosure.
- 2.4.3 Check that the supply and load cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.
- 2.4.4 Do Infrared Imaging Survey on Change Over Switch and Terminals.

The service, as set out in points (1) and (2) will be carried out annually or every 500 hours run time (whichever came first) for the generator.

R \_\_\_\_\_ per service for the generator set at the Main Building in Sasolburg.  
**(INCLUDING VAT, ALL SPARES AND MATERIALS.)**

Distance travel per single round trip from the service provider's nearest depo to our site \_\_\_\_\_ km.

Maximum number of round trips that will be traveled in order to complete the service of the equipment as specified in A = \_\_\_\_\_

...(A1)

...(A2)

...(A3)

## Service Specifications – Generator and UPS Equipment

Type of vehicle, fuel type as well as engine capacity to be used for services:

Vehicle \_\_\_\_\_ (Sedan/Station Wagon/LDV/Double Cab/MPV) ... (A4)

Fuel type \_\_\_\_\_ (Petrol/Diesel) ... (A5)

AA Tariff/km \_\_\_\_\_ (As recorded on 6 June 2023 for tender comparison) ... (A6)

Engine Capacity \_\_\_\_\_ (cc) ... (A7)

*(Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the service provider's nearest depo to our site.)* ... (A8)

A monthly fee at a rate of

R \_\_\_\_\_ per month for the Main Building in Sasolburg for the following services: ... (A9)

**A Access to emergency callout number**

**B Same day callouts including weekends and holidays**

**C On site coverage period, 24 hours a day, including weekends and holidays**

**D Telephone support 24 hours a day, weekends and holidays included**

# Service Specifications – Generator and UPS Equipment

## B. UPS Equipment Main Building Sasolburg

1. **Service UPS equipment** as per attached Main Building Sasolburg Equipment list.
2. Take special care of the following items and **issue a report** on the items serviced as well as the condition of the equipment, including possible replacement of parts or repairs:

### 2.1 **UPS**

Clean equipment and report on the following:

- 2.1.1 Rectifier Capacitor Make, Size, date stamp and quantity.
- 2.1.2 Inverter Capacitor Make, Size, date stamp and quantity.
- 2.1.3 Check for burned components on PC Board.
- 2.1.4 Check condition of fan.
- 2.1.5 DC Bus float voltage.
- 2.1.6 Battery Current Limit (Amps)
- 2.1.7 DC Capacitor Ripple (Volts)
- 2.1.8 AC Battery Ripple
- 2.1.9 Inverter R Phase L-N Voltage
- 2.1.10 Inverter W Phase L-N Voltage
- 2.1.11 Inverter B Phase L-N Voltage
- 2.1.12 Inverter N-E Voltage
- 2.1.13 Current Input R Phase
- 2.1.14 Current Input W Phase
- 2.1.15 Current Input B Phase
- 2.1.16 Current Output R Phase
- 2.1.17 Current Output W Phase
- 2.1.18 Current Output B Phase
- 2.1.19 Do a Main Fail test with load on inverter and monitor battery voltage for each battery after 15 minutes.  
Provide report on:
  - a) Total String Voltage,
  - b) each battery voltage,
  - c) Discharge Amps
- 2.1.20 Do Infrared Imaging Survey on cables, connections, breakers and batteries under Main Fail Test.
- 2.1.21 Check for signs of overheating or melting of components.
- 2.1.22 Check that the supply and load cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.

The service, as set out in points (1) and (2) will be carried out annually for the UPS at a rate of

R \_\_\_\_\_ per service for the UPS at the Main Building in Sasolburg.  
**(INCLUDING VAT, ALL SPARES AND MATERIALS.)**

...(B1)

Distance travel per single round trip from the service provider's nearest depo to our site

\_\_\_\_\_ km.

...(B2)

Maximum number of round trips that will be traveled in order to complete the service

of the equipment as specified in B = \_\_\_\_\_

...(B3)

## Service Specifications – Generator and UPS Equipment

Type of vehicle, fuel type as well as engine capacity to be used for services:

Vehicle \_\_\_\_\_ (Sedan/Station Wagon/LDV/Double Cab/MPV) ... (B4)

Fuel type \_\_\_\_\_ (Petrol/Diesel) ... (B5)

AA Tariff/km \_\_\_\_\_ (As recorded on 6 June 2023 for tender comparison) ... (B6)

Engine Capacity \_\_\_\_\_ (cc) ... (B7)

*(Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the service provider's nearest depo to our site.)* ... (B8)

A monthly fee at a rate of

R \_\_\_\_\_ per month for the Main Building in Sasolburg for the following services: ... (B9)

**A Access to emergency callout number**

**B Same day callouts including weekends and holidays**

**C On site coverage period, 24 hours a day, including weekends and holidays**

**D Telephone support 24 hours a day, weekends and holidays included**

# Service Specifications – Generator and UPS Equipment

## C. Generator Set Disaster Management Building Sasolburg

1. **Service Generator Set** as per attached Disaster Management Building Sasolburg Equipment list.
2. Take special care of the following items and **issue a report** on the items serviced -as well as the condition of the equipment, including possible replacement of parts or repairs:

### 2.1 **Generator set Drive Motor**

- 2.1.1 Check oil level before service and note it down.
- 2.1.2 Check fuel level before service and note it down.
- 2.1.3 Replace oil filter with OEM filter.
- 2.1.4 Oil service (replace oil with 15W/40 VDS-2. ACEA: E3, E5. API: CG-4, CH-4 or higher specification).
- 2.1.5 Replace air filter with OEM filter.
- 2.1.6 Replace diesel filter with OEM filter.
- 2.1.7 Check the battery floating charger and that the battery is at the correct floating voltage when machine is not running.
- 2.1.8 Check oil level.
- 2.1.9 Check coolant level.
- 2.1.10 Note coolant temperature before starting the machine.
- 2.1.11 Check water jacket heater functionality.
- 2.1.12 Measure water jacket heater temperature before starting the machine.
- 2.1.13 Check that air intake on machine is not obstructed.
- 2.1.14 Start machine and check for water, diesel and oil leaks.
- 2.1.15 Note down oil pressure.
- 2.1.16 Check that alternator charging system for 12V battery is charging at correct voltage and rate.
- 2.1.17 Switch off machine after 7 minutes no load running (Never run machine more than 10 minutes at no load).
- 2.1.18 Check condition of 12V battery and battery terminal connections.
- 2.1.19 Check that battery condition indicator is green and note last replacement date of battery.
- 2.1.20 Replace battery if older than 3 years (Rate as quoted under F)
- 2.1.21 Re-check oil level.
- 2.1.22 Do a load test on machine and note the following after running the machine for 15 minutes on load:
  - 2.1.23 Coolant temperature
  - 2.1.24 Oil pressure
  - 2.1.25 Generator voltage ( $V_{gen}$ )
  - 2.1.26 Generator frequency ( $f_{gen}$ )
  - 2.1.27 Battery voltage ( $V_{bat}$ )
  - 2.1.28 Machine Hours
  - 2.1.29 Machine Maintenance Hours
  - 2.1.30 Mains Voltage ( $L_1-L_2$  &  $L_2-L_3$  &  $L_3-L_1$ )
  - 2.1.31 Mains frequency ( $f$ )
  - 2.1.32 Clean canopy inside and outside and ensure that radiator and all air louvers are free from debris and other obstruction materials
  - 2.1.33 Repaint exhaust on outside of canopy

## Service Specifications – Generator and UPS Equipment

### 2.2 Synchronous Generator

- 2.2.1 Check that the generator operates smoothly, without noise or irregular vibrations due to bearing deterioration.
- 2.2.2 Check that the operating data complies with that on the rating plate.
- 2.2.3 Check that the generator's air inlet is not obstructed.
- 2.2.4 Check that the supply cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.
- 2.2.5 Check that screws and nuts are firmly tightened.
- 2.2.6 Do Infrared Imaging Survey on Generator Terminals.

### 2.3 Genset Controller & Control interface

- 2.3.1 Check that controller is functioning
- 2.3.2 Check that all safety alarms and cut outs (i.e. Over Temperature, Low Coolant Level, Low Oil Pressure, and Low Fuel Level) are functional.
- 2.3.3 Check that Modem correctly transmits start up, shut down, fuel levels and alarm conditions.
- 2.3.4 Ensure that auto and manual functions can be selected and that they are functional.
- 2.3.5 Select auto function and simulate power failure to see that Genset is starting up, running and correctly shutting down when the condition is cleared.
- 2.3.6 Ensure that all fault conditions are cleared and that controller is set to "AUTO" after the service and checks have been completed.

### 2.4 Change Over Switch

- 2.4.1 Check that the change-over switch operates smoothly, without noise or irregular vibrations after the action is completed.
- 2.4.2 Check for signs of overheating or melting of the enclosure.
- 2.4.3 Check that the supply and load cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.
- 2.4.4 Do Infrared Imaging Survey on Change Over Switch and Terminals.

The service, as set out in points (1) and (2) will be carried out annually or every 500 hours run time (whichever came first) for the generator.

R \_\_\_\_\_ per service for the generator set at the Disaster Management Building in Sasolburg. ... (C1)  
**(INCLUDING VAT, ALL SPARES AND MATERIALS.)**

Distance travel per single round trip from the service provider's nearest depo to our site \_\_\_\_\_ km. ... (C2)

Maximum number of round trips that will be traveled in order to complete the service of the equipment as specified in C = \_\_\_\_\_ ... (C3)

## Service Specifications – Generator and UPS Equipment

Type of vehicle, fuel type as well as engine capacity to be used for services:

Vehicle \_\_\_\_\_ (Sedan/Station Wagon/LDV/Double Cab/MPV) ... (C4)

Fuel type \_\_\_\_\_ (Petrol/Diesel) ... (C5)

AA Tariff/km \_\_\_\_\_ (As recorded on 6 June 2023 for tender comparison) ... (C6)

Engine Capacity \_\_\_\_\_ (cc) ... (C7)

*(Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the service provider's nearest depo to our site.)* ... (C8)

A monthly fee at a rate of

R \_\_\_\_\_ per month for the Disaster Management Building in Sasolburg for the following services: ... (C9)

- A Access to emergency callout number**
- B Same day callouts including weekends and holidays**
- C On site coverage period, 24 hours a day, including weekends and holidays**
- D Telephone support 24 hours a day, weekends and holidays included**

## Service Specifications – Generator and UPS Equipment

### **D. UPS Equipment Disaster Management Building Sasolburg**

1. **Service UPS equipment** as per attached Disaster Management Building Sasolburg Equipment list.
2. Take special care of the following items and **issue a report** on the items serviced as well as the condition of the equipment, including possible replacement of parts or repairs:

#### **2.1 UPS**

Clean equipment and report on the following:

- 2.1.1 Rectifier Capacitor Make, Size, date stamp and quantity.
- 2.1.2 Inverter Capacitor Make, Size, date stamp and quantity.
- 2.1.3 Check for burned components on PC Board.
- 2.1.4 Check condition of fan.
- 2.1.5 DC Bus float voltage.
- 2.1.6 Battery Current Limit (Amps)
- 2.1.7 DC Capacitor Ripple (Volts)
- 2.1.8 AC Battery Ripple
- 2.1.9 Inverter R Phase L-N Voltage
- 2.1.10 Inverter W Phase L-N Voltage
- 2.1.11 Inverter B Phase L-N Voltage
- 2.1.12 Inverter N-E Voltage
- 2.1.13 Current Input R Phase
- 2.1.14 Current Input W Phase
- 2.1.15 Current Input B Phase
- 2.1.16 Current Output R Phase
- 2.1.17 Current Output W Phase
- 2.1.18 Current Output B Phase
- 2.1.19 Do a Main Fail test with load on inverter and monitor battery voltage for each battery after 15 minutes.  
Provide report on:
  - a) Total String Voltage,
  - b) each battery voltage,
  - c) Discharge Amps
- 2.1.20 Do Infrared Imaging Survey on cables, connections, breakers and batteries under Main Fail Test.
- 2.1.21 Check for signs of overheating or melting of components.
- 2.1.22 Check that the supply and load cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.

The service, as set out in points (1) and (2) will be carried out annually for the UPS at a rate of

R \_\_\_\_\_ per service for the UPS at the Disaster Management Building in Sasolburg. ...(D1)  
**(INCLUDING VAT, ALL SPARES AND MATERIALS.)**

Distance travel per single round trip from the service provider's nearest depo to our site \_\_\_\_\_ km. ...(D2)

Maximum number of round trips that will be traveled in order to complete the service of the equipment as specified in D = \_\_\_\_\_ ...(D3)

## Service Specifications – Generator and UPS Equipment

Type of vehicle, fuel type as well as engine capacity to be used for services:

Vehicle \_\_\_\_\_ (Sedan/Station Wagon/LDV/Double Cab/MPV) ... (D4)

Fuel type \_\_\_\_\_ (Petrol/Diesel) ... (D5)

AA Tariff/km \_\_\_\_\_ (As recorded on 6 June 2023 for tender comparison) ... (D6)

Engine Capacity \_\_\_\_\_ (cc) ... (D7)

*(Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the service provider's nearest depo to our site.)* ... (D8)

A monthly fee at a rate of R \_\_\_\_\_ per month for the Disaster Management Building in Sasolburg for the following services: ... (D9)

**A Access to emergency callout number**

**B Same day callouts including weekends and holidays**

**C On site coverage period, 24 hours a day, including weekends and holidays**

**D Telephone support 24 hours a day, weekends and holidays included**

## Service Specifications – Generator and UPS Equipment

### E. Generator Set Fire Station Frankfort

1. **Service Generator Set** as per attached Fire Station Frankfort Equipment list.
2. Take special care of the following items and **issue a report** on the items serviced -as well as the condition of the equipment, including possible replacement of parts or repairs:

#### 2.1 **Generator set Drive Motor**

- 2.1.1 Check oil level before service and note it down.
- 2.1.2 Check fuel level before service and note it down.
- 2.1.3 Replace oil filter with OEM filter.
- 2.1.4 Oil service (replace oil with 15W/40 VDS-2. ACEA: E3, E5. API: CG-4, CH-4 or higher specification).
- 2.1.5 Replace air filter with OEM filter.
- 2.1.6 Replace diesel filter with OEM filter.
- 2.1.7 Check the battery floating charger and that the battery is at the correct floating voltage when machine is not running.
- 2.1.8 Check oil level.
- 2.1.9 Check coolant level.
- 2.1.10 Note coolant temperature before starting the machine.
- 2.1.11 Check water jacket heater functionality.
- 2.1.12 Measure water jacket heater temperature before starting the machine.
- 2.1.13 Check that air intake on machine is not obstructed.
- 2.1.14 Start machine and check for water, diesel and oil leaks.
- 2.1.15 Note down oil pressure.
- 2.1.16 Check that alternator charging system for 12V battery is charging at correct voltage and rate.
- 2.1.17 Switch off machine after 7 minutes no load running (Never run machine more than 10 minutes at no load).
- 2.1.18 Check condition of 12V battery and battery terminal connections.
- 2.1.19 Check that battery condition indicator is green and note last replacement date of battery.
- 2.1.20 Replace battery if older than 3 years (Rate as quoted under F)
- 2.1.21 Re-check oil level.
- 2.1.22 Do a load test on machine and note the following after running the machine for 15 minutes on load:
  - 2.1.23 Coolant temperature
  - 2.1.24 Oil pressure
  - 2.1.25 Generator voltage ( $V_{gen}$ )
  - 2.1.26 Generator frequency ( $f_{gen}$ )
  - 2.1.27 Battery voltage ( $V_{bat}$ )
  - 2.1.28 Machine Hours
  - 2.1.29 Machine Maintenance Hours
  - 2.1.30 Mains Voltage ( $L_1-L_2$  &  $L_2-L_3$  &  $L_3-L_1$ )
  - 2.1.31 Mains frequency ( $f$ )
  - 2.1.32 Clean canopy inside and outside and ensure that radiator and all air louvers are free from debris and other obstruction materials
  - 2.1.33 Repaint exhaust on outside of canopy

## Service Specifications – Generator and UPS Equipment

### 2.2 Synchronous Generator

- 2.2.1 Check that the generator operates smoothly, without noise or irregular vibrations due to bearing deterioration.
- 2.2.2 Check that the operating data complies with that on the rating plate.
- 2.2.3 Check that the generator's air inlet is not obstructed.
- 2.2.4 Check that the supply cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.
- 2.2.5 Check that screws and nuts are firmly tightened.
- 2.2.6 Do Infrared Imaging Survey on Generator Terminals.

### 2.3 Genset Controller & Control interface

- 2.3.1 Check that controller is functioning
- 2.3.2 Check that all safety alarms and cut outs (i.e. Over Temperature, Low Coolant Level, Low Oil Pressure, and Low Fuel Level) are functional.
- 2.3.3 Check that Modem correctly transmits start up, shut down, fuel levels and alarm conditions.
- 2.3.4 Ensure that auto and manual functions can be selected and that they are functional.
- 2.3.5 Select auto function and simulate power failure to see that Genset is starting up, running and correctly shutting down when the condition is cleared.
- 2.3.6 Ensure that all fault conditions are cleared and that controller is set to "AUTO" after the service and checks have been completed.

### 2.4 Change Over Switch

- 2.4.1 Check that the change-over switch operates smoothly, without noise or irregular vibrations after the action is completed.
- 2.4.2 Check for signs of overheating or melting of the enclosure.
- 2.4.3 Check that the supply and load cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.
- 2.4.4 Do Infrared Imaging Survey on Change Over Switch and Terminals.

The service, as set out in points (1) and (2) will be carried out annually or every 500 hours run time (whichever came first) for the generator.

R \_\_\_\_\_ per service for the generator set at the Fire Station in Frankfort.  
**(INCLUDING VAT, ALL SPARES AND MATERIALS.)**

...(E1)

Distance travel per single round trip from the service provider's nearest depo to our site \_\_\_\_\_ km.

...(E2)

Maximum number of round trips that will be traveled in order to complete the service of the equipment as specified in E = \_\_\_\_\_

...(E3)

## Service Specifications – Generator and UPS Equipment

Type of vehicle, fuel type as well as engine capacity to be used for services:

Vehicle \_\_\_\_\_ (Sedan/Station Wagon/LDV/Double Cab/MPV) ... (E4)

Fuel type \_\_\_\_\_ (Petrol/Diesel) ... (E5)

AA Tariff/km \_\_\_\_\_ (As recorded on 6 June 2023 for tender comparison) ... (E6)

Engine Capacity \_\_\_\_\_ (cc) ... (E7)

*(Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the service provider's nearest depo to our site.)* ... (E8)

A monthly fee at a rate of \_\_\_\_\_ ... (E9)

R \_\_\_\_\_ per month for the Fire Station in Frankfort for the following services:

- A Access to emergency callout number**
- B Same day callouts including weekends and holidays**
- C On site coverage period, 24 hours a day, including weekends and holidays**
- D Telephone support 24 hours a day, weekends and holidays included**

# Service Specifications – Generator and UPS Equipment

## 17. UPS Equipment Fire Station Frankfort

3. **Service UPS equipment** as per attached Fire Station Frankfort Equipment list.
4. Take special care of the following items and **issue a report** on the items serviced as well as the condition of the equipment, including possible replacement of parts or repairs:

### 2.1 UPS

Clean equipment and report on the following:

- 2.1.1 Rectifier Capacitor Make, Size, date stamp and quantity.
- 2.1.2 Inverter Capacitor Make, Size, date stamp and quantity.
- 2.1.3 Check for burned components on PC Board.
- 2.1.4 Check condition of fan.
- 2.1.5 DC Bus float voltage.
- 2.1.6 Battery Current Limit (Amps)
- 2.1.7 DC Capacitor Ripple (Volts)
- 2.1.8 AC Battery Ripple
- 2.1.9 Inverter R Phase L-N Voltage
- 2.1.10 Inverter W Phase L-N Voltage
- 2.1.11 Inverter B Phase L-N Voltage
- 2.1.12 Inverter N-E Voltage
- 2.1.13 Current Input R Phase
- 2.1.14 Current Input W Phase
- 2.1.15 Current Input B Phase
- 2.1.16 Current Output R Phase
- 2.1.17 Current Output W Phase
- 2.1.18 Current Output B Phase
- 2.1.19 Do a Main Fail test with load on inverter and monitor battery voltage for each battery after 15 minutes.  
Provide report on:
  - a) Total String Voltage,
  - b) each battery voltage,
  - c) Discharge Amps
- 2.1.20 Do Infrared Imaging Survey on cables, connections, breakers and batteries under Main Fail Test.
- 2.1.21 Check for signs of overheating or melting of components.
- 2.1.22 Check that the supply and load cables show no signs of deterioration and that connections are firmly tight and electrical connections are in perfect (undamaged) and clean condition.

The service, as set out in points (1) and (2) will be carried out annually for the UPS at a rate of

R \_\_\_\_\_ per service for the UPS at the Fire Station in Frankfort. ... (F1)  
**(INCLUDING VAT, ALL SPARES AND MATERIALS.)**

Distance travel per single round trip from the service provider's nearest depo to our site  
\_\_\_\_\_ km. ... (F2)

Maximum number of round trips that will be traveled in order to complete the service  
of the equipment as specified in F = \_\_\_\_\_ ... (F3)

## Service Specifications – Generator and UPS Equipment

Type of vehicle, fuel type as well as engine capacity to be used for services:

Vehicle \_\_\_\_\_ (Sedan/Station Wagon/LDV/Double Cab/MPV) ... (F4)

Fuel type \_\_\_\_\_ (Petrol/Diesel) ... (F5)

AA Tariff/km \_\_\_\_\_ (As recorded on 6 June 2023 for tender comparison) ... (F6)

Engine Capacity \_\_\_\_\_ (cc) ... (F7)

*(Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the service provider's nearest depo to our site.)* ... (F8)

A monthly fee at a rate of

R \_\_\_\_\_ per month for the Fire Station in Frankfort for the following services: ... (F9)

**A Access to emergency callout number**

**B Same day callouts including weekends and holidays**

**C On site coverage period, 24 hours a day, including weekends and holidays**

**D Telephone support 24 hours a day, weekends and holidays included**

## Service Specifications – Generator and UPS Equipment

### G. BREAKDOWN OR CALL OUT SERVICE OTHER THAN NORMAL ANNUAL/INTERVAL SCHEDULED SERVICES

All additional work to be carried out on equipment for the repair to or the adjustment or adding of additional equipment outside the normal annual service will only be done upon prior written approval from the client.

All additional work shall be for the Client's account and will be charged for as follows:-

#### G1 In terms of the Equipment at the Sasolburg buildings:

A standard callout fee of R \_\_\_\_\_

**INCLUDING** 1 hour labour is applicable on all first visits within normal office hours.

...(G1.1)

A standard callout fee of R \_\_\_\_\_

**INCLUDING** 1 hour labour is applicable on all first visits outside normal office hours excluding Sundays & Public Holidays.

...(G1.2)

A standard callout fee of R \_\_\_\_\_

**INCLUDING** 1 hour labour is applicable on all first visits outside normal office hours on Sundays & Public Holidays only.

...(G1.3)

- *Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the suppliers nearest depo to our site.*

#### G2 In terms of the Equipment at the Frankfort building:

A standard callout fee of R \_\_\_\_\_

**INCLUDING** 1 hour labour is applicable on all first visits within normal office hours.

...(G2.1)

A standard callout fee of R \_\_\_\_\_

**INCLUDING** 1 hour labour is applicable on all first visits outside normal office hours excluding Sundays & Public Holidays.

...(G2.2)

A standard callout fee of R \_\_\_\_\_

**INCLUDING** 1 hour labour is applicable on all first visits outside normal office hours on Sundays & Public Holidays only.

...(G2.3)

*Traveling cost will be reimburse at AA tariffs applicable at the time of travel for actual kilometers travelled, limited to 350km round trip from the suppliers nearest depo to our site.*

#### H SUBSEQUENT WORK on equipment at ALL BUILDINGS will be charged as follows:

Standard call out fee as indicated in G1 and/or G2 for the first hour (Inclusive of 1 hour labour) and thereafter the labour cost will be charged @

H1 R \_\_\_\_\_ per hour within normal office hours.

...(H1)

H2 R \_\_\_\_\_ per hour outside normal office hours excluding Sundays & Public Holidays.

...(H2)

H3 R \_\_\_\_\_ per hour outside normal office hours on Sundays & Public Holidays only.

...(H3)

## Service Specifications – Generator and UPS Equipment

### SPARES AND ADDITIONAL EQUIPMENT

- Spares and additional equipment will only be fitted with prior written approval from the client.
- In the event of battery replacement the price to **remove and dispose of the old battery or battery pack and to refit a new unit** with prior approval from the client **(the unit cost VAT included)** will be as follows:

**Note 1: The following specifications are minimum specifications.**

**Note 2: New/additional installations to carry a 12 month warranty on workmanship as well as on new equipment and materials when installed.**

11	12 Volt 102Ah Silver Calcium Deep cycle Battery  @ R _____ per unit.	...(11)
12	12 Volt battery (#153302037-001) for Meissner UPS battery cabinet  @ R _____ per unit.	...(12)
13	Complete 120 Volt Meissner battery cabinet (Model: 101614948-005) without batteries  @ R _____ per cabinet only.	...(13)
14	12 Volt (682C) High Amp starting battery  @ R _____ per unit.	...(14)
15	Retrofitting of UPS with a UPS sub DB, wiring of light circuits and 4 x 3 Pin Red Plug sockets and 4 x 2 pin Red Plug Sockets and issuing of COC at Frankfort Fire Station.  @ R _____	...(15)
16	Replace Main Building (Sasolburg) generator set drive motor coolant on first service and then every 2 years with Green OEM Volvo Penta Ready Mix 40/60 coolant.  @ R _____	...(16)
17	Replace Disaster Management Building (Sasolburg) generator set drive motor coolant on first service and then every 2 years with Green OEM Volvo Penta Ready Mix 40/60 coolant.  @ R _____	...(17)

## Service Specifications – Generator and UPS Equipment

18	Replace Fire Station Building (Frankfort) generator set drive motor coolant on first service and then every 2 years with OEM Ready Mix 40/60 coolant.  @ R _____	... (18)
19	Extend the Main Building's Generator exhaust with a flexible connection to a stainless steel pipe of 100mm diameter x (L bow + 4m + L bow + 12.5m) extended pipe, fixed to the side of the building with a weather flap rain cap installed at the top end.  @ R _____	... (19)
110	Price only: SOCOMEC or equivalent remote motorized Automatic Transfer Switch ATyS 3s 400A (M=230V)  @ R _____	... (110)
111	Price only: SOCOMEC or equivalent remote motorized Automatic Transfer Switch ATyS 3s 630A (M=230V)  @ R _____	... (111)
112	Price only: Suntime remote motorized Automatic Transfer Switch 100A (SQ5-100/3P)  @ R _____	... (112)
113	Price only: Deep Sea Electronics 6120 Genset Controller & Control interface  @ R _____	... (113)
114	5L top up oil (15W/40 VDS-2. ACEA: E3, E5. API: CG-4, CH-4 or higher specification)  @ R _____	... (114)
115	Spares and additional equipment with no rate in this document will be charged at cost + _____% and the Client is entitled on proof of the service provider's purchase price. # (This percentage must be indicated.)	... (115)

## Service Specifications – Generator and UPS Equipment

### J RISK ASSESSMENT AND SAFETY:

Risks to be addressed in the risk assessment must include but are not limited to:

- i. Working on electrical machinery
- ii. Working on or near rotating machinery
- iii. Working on or near live electrical equipment
- iv. Working on or near internal combustion engine
- v. Working in a noise area
- vi. Working on or near hot machinery
- vii. Working with hand tools
- viii. Working with electrical test equipment
- ix. Working with chemicals and combustible liquids
- x. Working on or near batteries
- xi. Safe disposal of chemicals and/or equipment containing chemicals such as batteries, capacitors, fuel, oil and coolant contaminated with antifreeze.

J1 Allow sum amount of R \_\_\_\_\_ /year at Main Building (John Vorster Street, Sasolburg) for risk assessment and safety equipment to ensure safe execution of maintenance and installation work. ... (J1)  
Sum amount allowed will be per site per year, irrespective to the number of services or callouts.

J2 Allow sum amount of R \_\_\_\_\_ /year at Disaster Management Building (Fichardt Street, Sasolburg) for risk assessment and safety equipment to ensure safe execution of maintenance and installation work. ... (J2)  
Sum amount allowed will be per site per year, irrespective to the number of services or callouts.

J3 Allow sum amount of R \_\_\_\_\_ /year at Fire Station (Frankfort) for risk assessment and safety equipment to ensure safe execution of maintenance and installation work. ... (J3)  
Sum amount allowed will be per site per year, irrespective to the number of services or callouts.

### K ANNUAL PRICE INCREASE:

K1) Allow for an annual contract price increase of CPIX + \_\_\_\_\_%. ... (K1)

# (This percentage must be indicated, even if zero)

## Service Specifications – Generator and UPS Equipment

### STANDING CONDITIONS OF CONTRACT

- 1) The contract price is based on costs ruling at the date of proposal and is fixed for 12 months from the starting date of the contract. In the event of any subsequent alteration in national or local wages agreement, or other substantial variation in costs outside the provision made for in terms of item K under an annual increase, after the first twelve months of the agreement, the contract price would be subject to a pro-rated adjustment, which adjustment, however, would not be made unless in the opinion of both parties the variation is sufficiently material to warrant such adjustment.
- 2) The Client undertakes to provide the Contractor with all reasonable access to the defined equipment, and when possible, to enable work to be carried out in normal working hours. Water and electrical power required for carrying out the service contract is to be provided free of charge by the Client.
- 3) The Contractor will take all necessary precautions to execute the service and all other necessary work in a safe and proper manner and always adhere to the OHS Act.
- 4) The Contractor indemnify the client from any claims whatsoever in terms of injuries to the contractors workforce as well as to the public or damage to property, as a result of the contractors actions while working on the premises of the client.
- 5) The contractor must have public liability cover to the minimum amount of R3 000 000 prior to commencement of the contract.
- 6) This Agreement shall take effect from (T.B.A.) and will continue for 36 (thirty six) months but may be terminated by three months written notice by either party provided that no such notice may be given until nine months after the signing of this Agreement.
- 7) The Service Level Agreement supersedes the above and the contract may be terminated due to non-performance according to the procedures as determined in the Service Level Agreement.

## **Fezile Dabi District Municipality**

### **Generator & UPS Equipment Layout**

#### **MAIN BUILDING**

**John Vorster Street**

**Sasolburg**

#### **Generator Set**

VOLVO PENTA

MODEL: TAD731GE

150KVA Marelli Three-phase synchronous generator

Deep Sea Electronics Genset Controller & Control interface

SOCOMEK remote motorized Automatic Transfer Switch ATyS 3s 400A (M=230V)

#### **UPS**

25kVA, DSP3000, D Power UPS

32 x 12V 102AH batteries

## **Fezile Dabi District Municipality**

### **Generator & UPS Equipment Layout**

#### **DISASTER MANAGEMENT BUILDING**

**Fichardt Street**

**Sasolburg**

#### **Generator Set**

VOLVO PENTA

MODEL: TAD531GE

100KVA Marelli Three-phase synchronous generator

Deep Sea Electronics Genset Controller & Control interface

SOCOMEK remote motorized Automatic Transfer Switch ATyS 3s 630A (M=230V)

#### **UPS**

30kVA, DSP3000, D Power UPS

30 x 12V 102AH batteries

## **Fezile Dabi District Municipality**

### **Generator & UPS Equipment Layout**

#### **Fire Station**

**29 Van Reenen Street**

**Frankfort**

#### **Generator Set**

**1x NOVOL 45 KVA PRIME RATED 3 PHASE DIESEL GENERATOR**

**MODEL: 1003TG**

**1x 45KVA Marelli Three-phase synchronous generator**

**1x Deep Sea Electronics 6120 Genset Controller & Control interface**

**1x Suntime remote motorized Automatic Transfer Switch 100A (SQ5-100/3P)**

#### **UPS**

**1x 25kVA Meissner UPS**

**+/-60 Min Battery time @ full load**

**BILL OF QUANTITIES SUMMARY: GENERATORS & UPS REPAIR AND MAINTENANCE FOR FEZILE DABI DISTRICT MUNICIPALITY**

2023

Copy amounts from SERVICE SPECIFICATIONS document to this page.

CONTRACTOR NAME:

A	B	C	D	E	F	G	H
	Description	Rate (Incl VAT) copied from Service Specifications (Unit Price)	Rate (Excl VAT) (C/1.15)	VAT (C-D)	Quantity	Total (Including VAT) Calculation	Calculation (Column)
A1	Generator set service at the Main Building in Sasolburg				6		CxF
A2	Distance travelled per single round trip to site						No calculation
A3	Max number of round trips to complete services.						No calculation
A4	Vehicle type						No calculation
A5	Fuel type						No calculation
A6	C = AA Tariff R/km & (F6 = F2 x F3)						CxF
A7	Engine Capacity						No calculation
A8	Limited to 350km						No calculation
A9	Monthly support fee				12		CxF
B1	UPS service at the Main Building in Sasolburg				1		CxF
B2	Distance travelled per single round trip to site						No calculation
B3	Max number of round trips to complete services.						No calculation
B4	Vehicle type						No calculation
B5	Fuel type						No calculation
B6	C = AA Tariff R/km & (F14 = F10 x F11)						CxF
B7	Engine Capacity						No calculation
B8	Limited to 350km						No calculation
B9	Monthly support fee				12		CxF
C1	Generator set service at the Disaster Man Building in Sasolburg				6		CxF
C2	Distance travelled per single round trip to site						No calculation
C3	Max number of round trips to complete services.						No calculation
C4	Vehicle type						No calculation
C5	Fuel type						No calculation
C6	C = AA Tariff R/km & (F6 = F2 x F3)						CxF
C7	Engine Capacity						No calculation
C8	Limited to 350km						No calculation
C9	Monthly support fee				12		CxF
D1	UPS service at the Disaster Man Building in Sasolburg				1		CxF
D2	Distance travelled per single round trip to site						No calculation
D3	Max number of round trips to complete services.						No calculation
D4	Vehicle type						No calculation
D5	Fuel type						No calculation
D6	C = AA Tariff R/km & (F14 = F10 x F11)						CxF
D7	Engine Capacity						No calculation
D8	Limited to 350km						No calculation
D9	Monthly support fee				12		CxF

A	B	C	D	E	F	G	H
	Description	Rate (Incl VAT) copied from Service Specifications (Unit Price)	Rate (Excl VAT) (C/1.15)	VAT (C-D)	Quantity	Total (Including VAT) Calculation	Calculation (Column)
E1	Generator set service at the EvH Building Frankfort				5		CxF
E2	Distance travelled per single round trip to site						No calculation
E3	Max number of round trips to complete services.						No calculation
E4	Vehicle type						No calculation
E5	Fuel type						No calculation
E6	C = AA Tariff R/km & (F6 = F2 x F3)						CxF
E7	Engine Capacity						No calculation
E8	Limited to 350km						No calculation
E9	Monthly support fee				12		CxF
F1	UPS service at the Fire Station in Frankfort				1		CxF
F2	Distance travelled per single round trip to site						No calculation
F3	Max number of round trips to complete services.						No calculation
F4	Vehicle type						No calculation
F5	Fuel type						No calculation
F6	C = AA Tariff R/km & (F14 = F10 x F11)						CxF
F7	Engine Capacity						No calculation
F8	Limited to 350km						No calculation
F9	Monthly support fee				12		CxF
G1.1	Std call out fee Sasolburg (Incl. 1 hour labour)				2		CxF
G1.2	Call out fee out of office hours Sasolburg (Incl. 1 hour labour)				1		CxF
G1.3	Call out fee Sundays & Public Holidays Sasolburg (Incl. 1 hour labour)				1		CxF
G2.1	Std call out fee Frankfort (Incl. 1 hour labour)				1		CxF
G2.2	Call out fee out of office hours Frankfort (Incl. 1 hour labour)				1		CxF
G2.3	Call out fee Sundays & Public Holidays Frankfort (Incl. 1 hour labour)				1		CxF
H1	Subsequent labour rate per hour (Normal office hours)				3		CxF
H2	Subsequent labour rate outside normal office hours (Excl Sunday & Public Holidays)				1		CxF
H3	Subsequent labour rate outside normal office hours on Sunday & Public Holidays				1		CxF

A	B	C	D	E	F	G	H
	Description	Rate (Incl VAT) copied from Service Specifications (Unit Price)	Rate (Excl VAT) (C/1.15)	VAT (C-D)	Quantity	Total (Including VAT) Calculation	Calculation (Column)
I1	12 Volt 102Ah Silver Calcium Deep cycle Battery				32		CxF
I2	12 Volt battery (#153302037-001) for Meissner UPS battery cabinet				1		CxF
I3	Complete 120 Volt Meissner battery cabinet (Model: 101614948-005) without batteries				1		CxF
I4	12 Volt (682C) High Amp starting battery				1		CxF
I5	Retrofitting of UPS with a UPS & sub DB as per I5 Specs				Sum		C
I6	Replace Main Building (Sasolburg) generator set drive motor coolant				1		CxF
I7	Replace Disaster Management Building (Sasolburg) generator set drive motor coolant				1		CxF
I8	Replace Fire Station Building (Frankfort) generator set drive motor coolant				1		CxF
I9	Extend the Main Building's Generator exhaust				Sum		CxF
I10	SOCOMEK or equivalent remote motorized Automatic Transfer Switch ATyS 3s 400A (M=230V)				1		CxF
I11	SOCOMEK or equivalent remote motorized Automatic Transfer Switch ATyS 3s 630A (M=230V)				1		CxF
I12	Suntree remote motorized Automatic Transfer Switch 100A (SQ5-100/3P)				1		CxF
I13	Deep Sea Electronics 6120 Genset Controller & Control interface				1		CxF
I14	5L top up oil (15W/40 VDS-2. ACEA: E3, E5. API: CG-4, CH-4 or higher specification)				1		CxF
I15	% Mark-up on unlisted spares	%			R 20 000,00		F + (CxF)
J1	Risk assessment and safety equipment for Main Building (John Vorster Street, Sasolburg)				1		CxF
J2	Risk assessment and safety equipment for Disaster Management Building (Fichardt Street, Sasolburg)				1		CxF
J3	Risk assessment and safety equipment for Fire Station (Frankfort)				1		CxF
K1	Annual contract price increase of CPIX + _____%.	%					No calculation

**TOTAL**  
(Sum Column G and forward amount to bid document cover page)

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**BID NO:** .....

**MAINTENANCE OF GENERATORS AND UPS EQUIPMENT**

**POINTS AWARDED FOR QUALITY AND FUNCTIONALITY**

Documents to support the following must be attached to this page:

FUNCTIONALITY	100 Points
- PART A: Experience on similar projects and Quality	40
- PART B: Capacity and resources relevant to scope of works	34
- PART C: Legal Requirements	26
<b>Minimum Threshold = 75 percent</b>	

**Points will be allocated as follows (A – C):**

**A. Experience on similar maintenance agreements (Max 40 points)**

Provide letters from previous clients that work has been completed in time and of good quality by the tendering company and that the company has repair experience on the following generator and UPS equipment and with contract values also confirmed:

- Volvo Penta TAD731GE and bigger
- 100kVA and higher Marelli three-phase synchronous generators
- Deep Sea Electronics Genset Controllers
- UPS modem and software
- Socomec/Suntree change over switchgear for generators
- DSP3000, 30kVA UPS from D power

Maintenance Contract to the value $\geq$ R100 000 per year	40 points per contract
Maintenance Contract between the value R50 000 and R99 999 per year.	15 points per contract
Maintenance Contract between the value R5 000 and R49 999 per year.	7 points per contract

**(Letter, client and contract information and contact details must be attached)**

**B. Capacity and resources**

**(Max 34 points)**

Minimum 2 x LDV, MPV, SUV or Van with Company Logo and name on it.

15 points

(Max= 15 points)

**(Certified copy of Registration Certificates and photos must be attached)**

1 x Diesel Mechanic

10 points

(Max= 10 points)

**(Information stating years of service with the tenderer and certified copy of ID must be attached)**

Permanent labour force > 5

9 points

(Max= 9 points)

**(Information stating years of service with the tenderer and certified copies of ID documents must be attached)**

**C. Legal requirements**

**(Max 26 points)**

C1. At least one x Qualified Installation Electrician permanently employed by tenderer (Single phase Tester only not permitted)  
**(Information stating years of service with the Tenderer, Certified copy of registration certificate issued by Department of Labour as Installation Electrician and Certified copy of ID must be attached)**

0 points if not comply to all three. (C1-C3)

C2. Up to date registration at Department of Labour as Electrical Contractor  
**(Certified copy of registration document from Department of Labour in the name of the tenderer must be attached)**

26 points if comply to all three. (C1-C3)

C3. Up to date and valid **CIDB registration** with minimum level and class of **EB2**  
**(Copy of CIDB registration in the name of the tenderer must be attached)**