



a world class African city



City of Johannesburg

Johannesburg Water SOC Ltd

Turbine Hall
65 Ntengi Piliso Street
Newtown
Johannesburg

Johannesburg Water
PO Box 61542
Marshalltown
2107

Tel +27(0) 11 688 1400
Fax +27(0) 11 688 1528

www.johannesburgwater.co.za

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF JOHANNESBURG WATER

DESCRIPTION: Diagnosis, repair, and servicing of the standby diesel generator at Southill Water Pump Station.

RFQ NUMBER: RFQJW63BZ2026

ADVERT DATE: 21/7/2026

CLOSING DATE: 7/8/2026

CLOSING TIME: 12.00

RFQ VALIDITY PERIOD: 60 Days

TOTAL QUOTATION VALUE MUST BE INCLUSIVE OF ALL APPLICABLE TAXES. NB: FAILURE TO INCLUDE ALL APPLICABLE TAXES ON QUOTATION WILL LEAD TO DISQUALIFICATION.

SUBMISSION OF QUOTATIONS: SUBMISSIONS MUST BE MADE ON THE E-TENDER PORTAL (<https://www.etenders.gov.za>)

BRIEFING SESSION –

Date: 05/08/2026

Time: 12:00

Venue: South hill Water pump station, 244 South Rand Road

Contact Person
Supply Chain Management-
Name: Baxolile Zulu
Tel No.: 011 688 1574
Email address: baxolile.zulu@jwater.co.za

Contact Person
End User Department
Name: Solva Shirindza
Tel no.: 081 0138453/011 689 9154
Email address: Solva.Shirindza@jwater.co.za

Name of Bidder:

Total Amount excl. VAT:

VAT Amount:

Total Amount Incl. VAT:

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Chief Executive Officer and Executive Director),

Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele, Mr Molate Mashifane, Ms Pamela Mabece, Mr Collen Sambo, Mr Makoko Makgonye, Ms Thabiso Kutumela, Mr Kefiloe Mokoena

Ms Kethabile Mabe (Company Secretary)

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THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT OF 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 22, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT

QUOTATIONS WILL BE EVALUATED ON THE 80/20 POINT SCORING SYSTEM. 80 POINTS WILL BE ALLOCATED TO PRICE AND THE REMAINING 20 POINTS WILL BE ALLOCATED FOR SPECIFIC GOALS AS PER PPPFA 2022

ALL SUPPLIERS RESPONDING TO QUOTATIONS SHOULD BE REGISTERED ON CENTRAL SUPPLIER DATABASE (CSD)

- 1. QUOTATIONS MUST BE ON COMPANY LETTERHEADS**
- 2. QUOTATIONS RECEIVED AFTER CLOSING DATE AND TIME WILL NOT BE ACCEPTED.**
- 3. QUOTATIONS WITHOUT BRAND NAMES WHERE REQUIRED WILL NOT BE ACCEPTED**
- 4. TOTAL QUOTATION VALUE TO INCLUDE ALL APPLICABLE TAXES.**
- 5. SUBMIT A COPY OF A VALID BBBEE CERTIFICATE OR SWORN AFFIDAVIT.**
- 6. ENSURE THAT ALL ATTACHED MBD'S ARE DULY COMPLETED AND SIGNED**
- 7. SUBMIT A COPY OF VALID LEASE AGREEMENT OR MUNICIPAL ACCOUNT STATEMENT NOT OLDER THAN 3 MONTHS AND NOT IN AREAS FOR MORE THAN 90 DAYS**
- 8. ACCEPTANCE OF A QUOTATION WILL BE SUBJECT TO JOHANNESBURG WATER'S SUPPLY CHAIN POLICY**

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Specification:

Scope of work:

- 1. Repair work:**
 - 1.1. Diagnose and repair the root cause of generator hammering.**
- 2. Cleaning work:**
 - 2.1. Clean and flush radiator, refill it with new antifreeze**
- 3. Generator servicing:**
 - 3.1. The contractor shall carry out major service of the generator in accordance with the manufacturer's recommendations. The service shall include but not limited to:**
 - Changing engine oil and filters
 - Replace fuel and air filters where require
 - Inspecting belts and hoses.
 - Checking coolant levels,
 - Testing the battery and charging system,
 - Inspecting electrical connections, and
 - Conducting operational and load tests to verify the generator's performance.
 - 3.2. Service provider shall supply all the fuel and material required (e.g. oil, antifreeze, degreaser, filters etc.)**
 - 3.3. All engine oils, degreasers and antifreeze supplied shall comply with the applicable SANS, ASTM, API, ACEA and OEM specifications relevant to the product supplied.**

Diagnosis, repair, and servicing of the standby diesel generator		
Item no.	Description	Quantity
1.	Diagnose and repair the root cause of hammering of the generator	1
2.	Clean and flush radiator, refill it with new antifreeze	1
3.	Carry out major servicing of the generator	1
5.	Provide close out detailed report	1
6.	Safety file	1

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No	Evaluations Criteria	Yes/No
1.	Attended compulsory briefing session	
2.	Supplier quoted according to the RFQ specification.	
3.	Contractor to submit at least one valid contactable completion certificate(s) or reference letter(s) on the client's letterhead, where similar project was done successful	
4.	Contractor must be CIDB GB1 or higher registered (proof of registration to be submitted with quotation)	
	Project delivery period	

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MANDATORY REQUIREMENTS:

- 1.1 Full Completion of the Bill of Quantities (BOQ)/ Specification (where applicable)***
- 1.2 Attendance of compulsory site briefing (where applicable)***
- 1.3 Attachment of datasheet, reference letter, proof of certification, proof of accreditation, functionality requirements (where applicable)***
- 1.4 No RFQ will be considered from persons in the service of the state***
- 1.5 No Bidder who is blacklisted by National Treasury or any National Authority due to non-performance will be considered***
- 1.6 All Quotes should be on PDF (MS WORD, MS EXCEL, PICTURES ARE NOT ALLOWED) and On Company Letterhead***
- 1.7 Submission of a Joint Venture Agreement, where applicable, which has been properly signed by all parties***

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POPIA PRIVACY STATEMENT

Johannesburg Water SOC Limited

In terms of the Protection of Personal Information Act 213 (Act 4 of 2013), also called the POPI Act or POPIA, Johannesburg Water SOC Limited, undertakes all reasonable measures to protect personal information and to keep it private and confidential.

1. Privacy Notice applies to:

Suppliers, vendors, contractors, service providers, etc whether appointed or prospective.

2. Definitions of personal information

According to the Act “personal information” means information relating to an identifiable living, natural person, and where it is applicable, an identifiable, existing juristic person. All addresses including residential, postal and email addresses.

3. About the Public Entity

Johannesburg Water (SOC) Limited, registration number 2000/029271/30

3.1 The information we collect

We collect information directly from you where you provide us with your personal details. Where possible, we will inform you what information you are required to provide to us and what information is optional.

3.2 How Johannesburg Water use your information

We will use your personal information only for the purposes for which it was collected and agreed with you. For example: to gather contact information, to confirm and verify your identity, for the evaluation and adjudication of bids and quotations for tenders, request for quotations, and other personal information for the procurement of goods and services by the Entity.

3.3 Disclosure of information

We may disclose your personal information to our Shareholder, the City of Johannesburg, and other Government agencies such as National Treasury, and the Auditor-General of South Africa. We have agreements in place to ensure that they comply with the privacy requirements as required by the Protection of Personal Information Act.

We may also disclose your information:

- Where we have a duty or a right to disclose in terms of law.
- Where we believe it is necessary to protect our rights.

3.4 Information Security

We are legally obliged to provide adequate protection for the personal information we hold and to stop unauthorised access and use of personal information. We will, on an ongoing basis, continue to review our security controls and related processes to ensure that your personal information remains secure.

When we contract with third parties, we impose appropriate security, privacy and confidentiality obligations on them to ensure that personal information that we remain responsible for is kept secure. We will ensure that anyone with whom we pass your personal information agrees to treat your information with the same level of protection as we are obliged to.

3.5 Your rights: Access to Information

You have the right to request a copy of the personal information we hold about you. To do this, simply contact us at informationofficer@jwater.co.za, and specify what information you require.

3.6 Correction of your personal information

You have the right to ask us to update, correct or delete your personal information. We will require a copy of your identification document to confirm your identity before making changes to personal information we may hold about you. We would appreciate it if you would keep your personal information accurate and up to date.

3.7 How to contact us

If you have any queries about this document; you need further information about our privacy practices; wish to withdraw consent; exercise preferences or access or correct your personal information, please contact us at the numbers listed on our website or send an email to informationofficer@jwater.co.za.

CONSENT TO PROCESS PERSONAL INFORMATION IN TERMS OF THE PROTECTION OF PERSONAL INFORMATION ACT, NO. 4 OF 2013 (POPIA)

The purpose of the Protection of Personal Information Act, no. 4 of 2013 (POPIA), is to protect personal information of individuals and businesses and to give effect to their right of privacy as provided for in the Constitution. By signing this form, you consent to lawful collection, processing, storage and, where necessary, sharing your personal information by Johannesburg Water SOC Ltd. and consent is effective immediately and will remain effective until such consent is withdrawn in terms of POPIA.

1. I a natural person "herein referred to as the Data Subject" with ID Number hereby give my consent to Johannesburg Water SOC Ltd. "herein referred to as the Responsible Party" to collect, process and distribute my personal information where Johannesburg Water SOC Ltd. is legally required to do so.
2. I understand my right to privacy and the right to have my personal information processed in accordance with the conditions for the lawful processing of personal information.
3. I understand the purposes for which my personal information is required and for which it will be used and consent to third parties accessing my personal information and to Johannesburg Water SOC Ltd. sharing my personal information strictly for reporting purposes.
4. I understand that, should I refuse to provide Johannesburg Water SOC Ltd. with the required consent and/or information, Johannesburg Water SOC Ltd. will be unable to assist me.
5. I declare that all my personal information supplied to Johannesburg Water SOC Ltd. is accurate, up to date, not misleading and that it is complete in all respects and that I will notify Johannesburg Water SOC Ltd. of any changes to my Personal Information should any of these details change.
6. I also understand that I have the right to request that my personal information be corrected or deleted, if it is inaccurate, irrelevant, excessive, out of date, incomplete, misleading, or obtained unlawfully or that the personal information or record be destroyed or deleted if the Responsible Party is no longer authorised to retain it.

Signed at this day of20.....

.....
Signature of data subject/designated person

.....
Full Name/Dept of Responsible Party

.....
Signature

.....
Date

DATA SUBJECT CONSENT WITHDRAWAL FORM
IN TERMS OF THE PROTECTION OF PERSONAL INFORMATION ACT, NO. 4 OF
2013 (POPIA)

CONSENT

Ia natural person "herein referred to as the "Data Subject" with identification number hereby withdraw my consent to process my personal information by Johannesburg Water SOC Ltd (Responsible Party). Therefore, Johannesburg Water SOC Ltd. no longer has my consent to process my personal information for the intended purpose

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

which was previously granted using the DATA SUBJECT CONSENT FORM.

The withdrawal of consent does not affect the lawfulness of the processing activities up to the date on this form.

Details of Data Subject

Name and surname:

Identification number:

Date of Birth:

Residential address:

.....

.....

Contact number(s):

E-mail address:

Relationship to Responsible Party:

Signed at _____ on this _____ day of _____ 20 ____

Signature of Data Subject

Information Officer/Deputy
Johannesburg Water SOC Ltd.



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ADMINISTRATIVE REQUIREMENTS

PLEASE SUPPLY THE FOLLOWING DOCUMENTS TO ENABLE US TO EVALUATE YOUR SUBMISSION:

Returnable Documents	Description	Yes/No
1	Original Valid Tax Clearance Certificate /valid SARS PIN	COMPULSORY
2	A, certified /original/valid, BBBEE certificate /affidavit (Please note that the Sworn Affidavit must be compliant as per B- BBEE Practice Guide 01 of 2018 , NON-COMPLIANT AFFIDAVIT WILL BE SCORED ZERO)	COMPULSORY
3	Municipal rates and taxes (Must not be older than 90 days in arrears in line with regulation 38.	COMPULSORY
4	Signed Declaration of Interest form (MBD 4)	COMPULSORY
5	Declaration of Bidders past supply chain management practices (MBD 8)	COMPULSORY
6	Certificate of Independent Proposal Determination (MBD 9)	COMPULSORY
7	Proof of CSD registration /MAAA Supplier Number	COMPULSORY
8	Preference points claim form in terms of the preferential procurement regulations 2022 (MBD 6.1)	COMPULSORY
9	Company registration documents with ID copies of directors / shareholders.	COMPULSORY

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MBD 3.1

**PRICING SCHEDULE – FIRM PRICES
(PURCHASES)**

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

**IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING,
A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY
POINT**

Name of Bidder..... Bid Number.....

Closing Time

Closing Date.....

OFFER TO BE VALID FOR 60 DAYS FROM THE CLOSING DATE OF BID.

ITEM NO.	QUANTITY (QTY)	DESCRIPTION	UNIT PRICE (P)	TOTAL PRICE (QTY*P)
SUB-TOTAL				R
VAT AT 15%				R
GRAND TOTAL (BID PRICE IN RSA CURRENCY WITH ALL APPLICABLE TAXES INCLUDED)				R
I (full name) _____, in my capacity as _____, the duly authorized representative of _____ (company name) hereby declares that the offer is in				

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accordance with the attached specification, notes to suppliers & accepts all conditions/ clauses contained in the said documents.

Signature of duly authorized representative

Date:

- Required by:
- At:
.....
- Brand and Model
- Country of Origin
.....
- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
*Delivery: Firm/Not firm
- Delivery basis

Note: All delivery costs must be included in the bid price for delivery at the prescribed destination.

** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

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BD 4

DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state¹.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

- 3.1 Full Name of bidder or his or her representative:
- 3.2 Identity Number:.....
- 3.3 Position occupied in the Company (director, trustee, shareholder²):
- 3.4 Company Registration Number:
- 3.5 Tax Reference Number:
- 3.6 VAT Registration Number:
- 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
- 3.8 Are you presently in the service of the state... **YES / NO**
- 3.8.1 If yes, furnish particulars.....

¹MSCM Regulations: "in the service of the state" means to be –

(a) a member of –

- (i) any municipal council.
- (ii) any provincial legislature; or
- (iii) the national Assembly or the national Council of provinces.

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- (b) a member of the board of directors of any municipal entity.
- (c) an official of any municipality or municipal entity.
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or provincial legislature.

² Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.9 Have you been in the service of the state for the past twelve months?..... **YES / NO**

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.10.1 If yes, furnish particulars.....

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.11.1 If yes, furnish particulars.....

.....

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3.12 Are any of the company's directors, trustees, managers, principal shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars.....

.....

3.13 Are any spouse, child or parent of the company's directors' trustees, managers, principle shareholders or stakeholders in service of the state **YES/ NO**

3.13.1 If yes, furnish particulars.....

.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract **YES / NO**

3.14.1 If yes, furnish particulars:

.....

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4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

.....

Signature

.....

Date

.....

Capacity

.....

Name of Bidder

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PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Chief Executive Officer and Executive Director),

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Ms Kethabile Mabe (Company Secretary)

Johannesburg Water SOC LTD

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1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS:	20
Total points for Price and SPECIFIC GOALS	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- “tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation.
- “price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- “Rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- “tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales

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and disposal of assets through public auctions; and

(e) “**The Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20	or	90/10
$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) \text{ or } Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$		

Where

Ps = Points scored for price of tender under consideration
 Pt = Price of tender under consideration
 Pmin = Price of lowest acceptable tender

Directors:

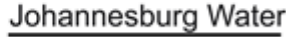
Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Chief Executive Officer and Executive Director),

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will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)	Proof of documents as per spec
SMME (An EME or QSE) 51% or more black owned by Black People	80		Valid BBBEE Certificate issued by SANAS accredited verification agency or DTI /CIPC BBBEE Certificate for Exempted Micro Enterprises or Qualifying Small Enterprise or Affidavit sworn under oath.

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- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct.
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation.
- (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:
DATE:
ADDRESS:
.....
.....
.....
.....

Directors:

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MBD 8

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system.
 - b. been convicted for fraud or corruption during the past five years.
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Directors:

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4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied). The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		

Directors:

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4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS
DECLARATION FORM TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN
AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

Signature

.....

Date

.....

Position

.....

Name of Bidder

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Chief Executive Officer and Executive Director),

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MBD 9

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

Directors:

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CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect.
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder.
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder.
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation.
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder

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6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices.
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices.
 - (d) the intention or decision to submit or not to submit, a bid.
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

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MBD 9

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

Directors:

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 Johannesburg Water	Document title :	Minimum SHE Requirements for Construction Related RFQ projects		
	Revision	00	Author:	OHS: Projects
	Effective Date	January 2017	Pages:	01

1. SCOPE OF WORK

Diagnosis, repair, and servicing of the standby diesel generator at South Hill Water Pump Station.

PURPOSE

The aim of the SHE specification is to ensure that any contractor which is appointed by Johannesburg Water to conduct any work. Compliance with the SHE requirements of the SHE specification and any other legislative requirement applicable to the contract scope.

2. APPLICABILITY

This document is applicable to all contractors and suppliers conducting contractual activities for and on behalf of Johannesburg Water.

3. APPOINTMENTS

The contractor and its appointed sub-contractor must make the relevant legislative and non-statutory appointments, which must be maintained valid for the entire contract duration.

All appointees shall be suitably trained and found to be competent for the responsibilities there are assigned for.

Copies of all relevant appointments and the relevant competence certificates must be kept in the relevant SHE file.

Appoint:

1. Hand Tool Inspector
2. Risk Assessor
3. Incident Investigator
4. First Aider
5. Portable Electrical Inspector
6. Ladder Inspector
7. HCS Coordinator
8. Firefighting Equipment Inspector
9. Signal man - Guide Rope
10. Fall Protection Planner
11. Rigger Operator
12. Risk Assessor
13. Electrician
14. GMR 2(1)



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4. INSURANCE

The contractor and all its appointed sub-contractor(s) shall be registered with an appropriate compensation commissioner and have a valid letter of good standing from commissioner. The contractor is responsible for ensuring the Letter of Good Standing is valid for the entire duration of the project/contract. A copy of the letter of Good Standing must be kept in the SHE file.

5. COSTING FOR SHE REQUIREMENTS

The contractor is responsible for ensuring that SHE costing is taken into consideration for the entire project/contract as this will ensure they comply with the SHE legislative requirements

6. INDUCTION

An initial induction shall be done with key personnel to familiarize them with the requirements on site and for compiling the SHE file.

Once labourers are appointed JW will conduct an induction on SHE requirements, and the contractor is also required to conduct their company specific induction.

7. SUBMISSION OF SAFETY FILE

- Once appointed the contractor can submit their safety file for approval.
- Approval will be granted when the critical items have been sufficiently addressed.

8. RISK ASSESSMENT

- Every Contractor who has been appointed contractually to conduct work for Johannesburg water shall do compile a baseline risk assessment prior to starting with work, subject to the approval of the Client.
- Thereafter the task-based risk assessments will be done daily with every task being done.

9. SAFE WORKING PROCEDURES / METHOD STATEMENTS

The following method statements / safe working procedures must be compiled:

- Incident investigation, emergency plan, waste management plan, PPE procedure, hand tool procedure, hazardous chemical substance procedure.
- Method statement for the entire works
- Electrical lockout/ isolation procedure.



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10. HAND TOOLS

Hand tools include anything from axes to wrenches. The greatest hazards posed by hand tools result from misuse and improper maintenance.

Some examples include the following:

- If a chisel is used as a screwdriver, the tip of the chisel may break and fly off, hitting the user or other employees.
- If a wooden handle on a tool, such as a hammer or an axe, is loose, splintered, or cracked, the head of the tool may fly off and strike the user or other employees.
- If the jaws of a wrench are sprung, the wrench might slip.
- If impact tools such as chisels, wedges, or drift pins have mushroomed heads, the heads might shatter on impact, sending sharp fragments flying toward the user or other employees. The employer is responsible for the safe condition of tools and equipment used by employees. Employers shall not issue or permit the use of unsafe hand tools. Employees should be trained in the proper use and handling of tools and equipment.

Employees, when using saw blades, knives, or other tools, should direct the tools away from aisle areas and away from other employees working in proximity. Knives and scissors must be sharp; dull tools can cause more hazards than sharp ones. Cracked saw blades must be removed from service.

Wrenches must not be used when jaws are sprung to the point that slippage occurs. Impact tools such as drift pins, wedges, and chisels must be kept free of mushroomed heads. The wooden handles of tools must not be splintered.

Iron or steel hand tools may produce sparks that can be an ignition source around flammable substance. Where this hazard exists, spark-resistant tools made of non-ferrous materials should be used where flammable gases, highly volatile liquids, and other explosive substances are stored or used.

11. PORTABLE ELECTRICAL TOOLS

The Contractor shall comply with the Electrical Machinery Regulations and shall ensure that use and storage of all portable electrical tools are in compliance with relevant legislation.

The Contractor shall consider that:

- A competent person undertakes routine inspections;



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- Only authorised persons use the tools;
- There are safe working procedures applied;
- Awareness training is carried out and compliance is enforced at all times; and
- PPE and clothing is provided and maintained.

12. LIFTING OPERATION

- No user shall use or permit the use of a lifting machine unless
- It has been designed and constructed in accordance with a generally accepted technical standard;
- It is conspicuously and clearly marked with the maximum mass load which it is designed to carry with safety: Provided that when this mass load varies with the conditions of use a table showing the maximum mass load with respect to every variable condition shall be posted up by the user in a conspicuous place easily visible to the operator, and it has at all times at least three full turns of rope on the drum of each winch which forms part of such a machine when such a winch has been run to its lowest limit.
- The user shall, where practicable, provide every power-driven lifting machine with -
 - a brake or other device capable of holding the maximum mass load should the power supply fail, or which is such that it will automatically prevent the uncontrolled downward movement of the load when the raising effort is interrupted; and
 - a limiting device which will automatically arrest the driving effort when -
 - the hook or load attachment point of the power-driven lifting machine reaches its highest safe position; and
 - in the case of a winch-operated lifting machine with a lifting capacity of 5000 kg or more, the load is greater than the rated mass load of such a machine.
- The user shall cause every chain or rope which forms an integral part of a lifting machine to have a factor of safety as prescribed by the standard to which such machine was manufactured: Provided that in the absence of such prescribed factor of safety, chains, steel-wire ropes and fibre ropes shall have a factor of safety of at least four, five and ten respectively, with respect to the rated carrying capacity of the lifting machine.
- The user shall cause every hook or any other load-attaching device which forms an integral part of a lifting machine to be so designed or proportioned that accidental disconnection of the load under working conditions cannot take place.



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13. HIGH VOLTAGE ELECTRICAL EQUIPMENT

The Contractor shall ensure that, where the work is under, on or near high-voltage electrical equipment the Electrical Installation Regulations, together with safety instructions (Regulations of the Owner of the Equipment) are complied with. Such equipment includes:

- JW and the Local Authority equipment
- The Contractor's own power supply; and
- Electrical equipment being installed but not yet handed over from a Contractor by The Client (JW).

14. GENERAL MACHINERY

The Contractor shall comply with the Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing and training those that use machinery and enforce compliance.

15. SPILLAGES

- Contain spill as best as possible using absorbent paper/s and or appropriate chemicals. If liquid has spilled from a container, return the container to the upright position to prevent further spread of the liquid.
- Close all drains to prevent the spill from reaching the environment.
- Switch off all electrical equipment in the vicinity of the spill.
- Cordon off the area and control access of unnecessary persons.
- Assist any person that has been exposed to chemical contamination.
- Ensure Spill kit is available.

Clean up spill as follows

- a) Put on all protective clothing, goggles and acid resistant gloves.
- b) Cover all wet spills with vermiculate
- c) Clean up dry spills using the scoop.
- d) Try not to mix chemicals when scooping up.
- e) Place all dry chemicals in a sturdy plastic bag, tie with bag ties, and label if contents are known and put into waste bin designated for chemical waste.



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f) Pick up all broken glass using tongs and put it into the broken glass containers supplied. Take note of all information on the labels from broken containers, both safety information and toxicity.

g) Put used vermiculate into plastic bags and waste bins.

16. WORKING AT HEIGHTS

- A competent person must compile a fall protection plan for all tasks which will be done at elevated position.
- The requirements as per the Construction regulations for working at heights shall be complied with by the contractor at all times.
- The fall protection plan shall be specific to the work that will be conducted at elevated position and proper provision must be made for rescue of employees at heights.
- Fall protection plan must include fall risk assessment detailing proper controls to be implemented.
- All employees who their duties entail working at heights must be declared medically fit by an Occupational Health Practitioner for working at heights.
- Employees who will be working at heights must be trained by a competent service provider for working at heights and must be trained on use of fall prevention/arrest devices to be used at heights.
- Employees working at height must be trained on the latest approved fall protection plan before work commences at height.

13. MEDICAL SCREENING REQUIREMENTS

- The contractor shall ensure that a medical surveillance programme is implemented for all employees.
- The medical examination shall be conducted in line with the employee job profile/job description.
- A valid medical fitness certificate must be submitted together with the SHE File for approval for all employees who will be doing work for Johannesburg Water.
- Any employee(s) who are declared conditionally fit must be provided with employment which does not aggravate their medical condition as to endanger themselves or other employees.
- The following tests shall be done:
 - Audiograms.
 - A cardio-respiratory examination
 - Lung function tests.
 - Eye/ sight tests.
 - A general physical examination.
 - A review of previous medical history.



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- Blood pressure tests
- Glucose tests
- Vaccinations (Hepatitis A & Typhoid)

14. TOOLBOX TALKS

- The contractor shall ensure they conduct toolbox talks with their employees on a weekly basis and records of these must be kept in the SHE file.
- The objective of toolbox talks should be to communicate relevant site information to assist in improvement of occupational health and safety performance.
- Employees must acknowledge the receipt of toolbox talks and this record must also be kept in the SHE file.

15. PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Contractor must issue their employees SABS approved PPE. A copy of the PPE issue register signed by the employee issued with the PPE must be kept in the SHE file.
- Contractor Supervisors are required to conduct continuous inspections of the PPE issued to their employees to ensure that they are still in good condition to be used by the employee or they still comply with manufacture requirements.
- The contractor is responsible for ensuring that employees are trained on the safe use of the PPE issued to them, how to maintain it and the limitations of the PPE.
- NO SHORTS OR DRESSES WILL BE ALLOWED ON SITE

16. WORKPLACE SIGNAGE

- Appropriate symbolic signage must be displayed where it is required by legislation.
- Appropriate warning, mandatory and information signs must be placed where required.
- All signs must comply to SANS/SABS requirements.
- Contractors shall use mandatory and prescribed symbolic safety signs at their lay down and site areas.

17. INCIDENT REPORTING AND INVESTIGATION

- All incidents shall be reported to the Client before the end of the shift or within 24hrs of occurrence.
- Section 24 incidents shall be reported to DOL using the prescribed format.
- The contractor shall develop an incident management procedure and communicate with all employees.

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18. NOTIFICATION OF CONSTRUCTION WORK

- The contractor shall notify the DOL in the prescribed format of the intended work prior to work.

19. COMPLIANCE MONITORING

- Weekly inspections and monthly audits will be conducted on site.

20. PROJECT COMPLETION

- Upon completion of the project the SHE file shall be returned to the Client for retention and close out.



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Project details					
Project Scope: Diagnosis, repair, and servicing of the standby diesel generator					
Depot / Site / Department: South Hill Water Pump Station.					
Estimated duration: TBC					
Documents required					
Letter of Good Standing	Yes	☒	No	☐	N/A ☐
SHE plan	Yes	☒	No	☐	N/A ☐
Risk Assessment	Yes	☒	No	☐	N/A ☐
Safe working Procedures	Yes	☒	No	☐	N/A ☐
Notification of Construction work	Yes	☒	No	☐	N/A ☐
Inspection registers	Yes	☒	No	☐	N/A ☐
Items required before starting					
Medicals	Yes	☒	No	☐	N/A ☐
Vaccinations	Yes	☐	No	☒	N/A ☐
PPE (boots, hard hats, overall)	Yes	☒	No	☐	N/A ☐
Induction	Yes	☒	No	☐	N/A ☐
Approval from OHS	Yes	☒	No	☐	N/A ☐
APPOINTMENTS AND COMPETENCIES					
<u>Construction Supervisor</u>					
Appointment	Yes	☒	No	☐	N/A ☐
CV (and/ certificates) <i>Electrician</i>	Yes	☒	No	☐	N/A ☐
<u>Safety Officer</u>					
Appointment	Yes	☒	No	☐	N/A ☐
CV (and/ certificates)	Yes	☒	No	☐	N/A ☐
NB* Other appointments will be based on the number of employees on site as required by law.					



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RETURNABLE ANNEXURE A: ACKNOWLEDGEMENT OF SHE SPECIFICATION & ANNEXURES

CONTRACTOR:

I, the undersigned, hereby acknowledge that I have obtained copies of the following listed documentation and confirm that I fully understand the contents thereof and the consequences of non-compliance. The Contractor furthermore reiterates its commitment to compliance of the requirements contained within the following provided documentation:

- Johannesburg Water SOC Ltd, Safety, Health & Environmental (SHE) Specification, Annexure 1: Baseline risk assessment conducted for or on behalf of Johannesburg Water SOC Ltd;

Signed at on this Day of 20.....

CONTRACT MANAGER			
NAME	DESIGNATION	DATE	SIGNATURE
CONTRACT SUPERVISOR			
NAME	DESIGNATION	DATE	SIGNATURE
WITNESS (1)			
NAME	DESIGNATION	DATE	SIGNATURE
WITNESS (2)			
NAME	DESIGNATION	DATE	SIGNATURE



HEALTH, SAFETY & ENVIRONMENTAL (SHE) SPECIFICATION: BASELINE RISK ASSESSMENT

PROJECT NUMBER:	RFQ
PROJECT LOCATION:	Electro - Mechanical: South Hills
PROJECT DESCR:	Diagnosis, repair, and servicing of the standby diesel generator at South Hill Water Pump Station

POSSIBLE RISKS FOR THIS PROJECT

Task	Hazard	Risk	Consequence	Rating	Controls
Submission of Safety file	✓ Unapproved safety file/ working without safety file	✓ Unsafe work conducted in the clients premises ✓ Non adherence to the clients safety requirements	✓ Fatalities, injuries, damage to property	High	✓ Compile safety file and submit it to the OHS department for approval ✓ Employees need to be inducted ✓ Employees work and safety file will be audited and monitored while they are on site
Site establishment	✓ Loading and offloading of material	✓ Unsafe loading/ offloading practices	✓ Damage to property ✓ Back sprains	Moderate	✓ Practice good lifting techniques ✓ Handle material with care.
	✓ Material handling	✓ Falling material and equipments	✓ Personal injury	Moderate	✓ Handling material with care ✓ Do not handle more material than you are capable of carrying
	✓ Use of hand tools to erect the structure/ container	✓ Unsafe use of hand tools	✓ Personal injuries	Low	✓ Compile safe use of hand tool procedure ✓ Train employees on the correct use of hand tools ✓ Appoint a hand tool inspector ✓ Inspect all hand tools before use ✓ Report damaged hand tools ✓ Remove damaged hand tools from the site to prevent unauthorised use

					✓ Wear hand gloves
	✓ Removing debris on camp site	✓ Inhalation of dust	✓ Respiratory irritation		✓ Suppress dust with water ✓ Wear dust masks
Site security	✓ Unsafe camping site	✓ Inadequate security / no security	✓ Injuries, theft / criminal activities	Moderate	✓ Appoint PSIRA accredited security guard
Training	✓ Incompetent employees	✓ No training/ inadequate training	✓ Injuries ✓ Substandard work	Moderate	✓ Induct employees before they commence work ✓ Train employees on the risks associated with their work ✓ Appoint employees qualified as registered Electrical Engineer with ECSA (Pr Eng) / Registered Electrical Technologist with ECSA (Pr Tech Eng) - submit proof
Fault-finding	✓ Travelling to the depot	✓ Unroadworthy vehicle ✓ Speeding ✓ Not adhering to road signs ✓ Incompetent drivers	✓ Accidents ✓ Damage to property ✓ Injuries	High	✓ Ensure that all drivers are competent ✓ Service and maintain all vehicles on a regular interval ✓ Inspect vehicle before every trip ✓ All drivers to adhere to road rules and signages ✓ Be courteous to other road users
	✓ The use of hand tools	✓ Unsafe use of tools ✓ Using damaged tools	✓ Injuries	Low	✓ Appoint hand tool inspector ✓ Inspect tool before use ✓ Report unsafe/ damaged tools ✓ Use the correct tool for each task ✓ Wear hand gloves
	✓ Lifting heavy equipments	✓ Poor ergonomics ✓ Hands stuck between equipments	✓ Back sprains ✓ Pinch point injuries	Moderate	✓ Two employees to carry heavy equipments ✓ Use the correct lifting techniques

					✓ Train employees on the correct lifting techniques ✓ Use hand gloves
	✓ Live electricity	✓ No lock out ✓ Improper lock out	✓ Burns ✓ Electrocuted ✓ Electric fire	Extreme	✓ Appoint a competent electrician to do the work ✓ Adhere to the lock out procedure ✓ Ensure everyone is aware that this work is being performed
	✓ The use of hand tools	✓ Unsafe use of tools ✓ Using damaged tools	✓ Injuries	Low	✓ Appoint hand tool inspector ✓ Inspect tool before use ✓ Report unsafe/ damaged tools ✓ Use the correct tool for each task ✓ Wear hand gloves
	✓ Lifting heavy equipments	✓ Poor ergonomics ✓ Hands stuck between equipments	✓ Back sprains ✓ Pinch point injuries	Moderate	✓ Two employees to carry heavy equipments ✓ Use the correct lifting techniques ✓ Train employees on the correct lifting techniques ✓ Use hand gloves
	✓ Carrying out a task for a long period of time/ Uncomfortable working position	✓ Fatigue	✓ muscular skeletal injury ✓ Headaches ✓ Eye strain	Low	✓ Work periods involving a lot of repetition broken up with short breaks. ✓ Short, frequent pauses allowed for very intensive work.
Inspecting belts hoses, electrical connections	✓ Live electricity ✓ Inadequate testing whether the transformer works ✓ Inadequate lock out/ isolation	✓ Exposure to electricity	✓ Fire ✓ Burns ✓ Damage to property ✓ Electrocution ✓ Fatality	High	✓ Appoint a competent person to do the work ✓ Inform relevant people (disciplines) when you test the plant. ✓ Isolation of live apparatus

	✓ Incompetent workers	✓ Improper installation	✓ Damage of other parts on the component ✓ Personal injuries	High	✓ Only competent workers to do the specialised works. ✓ Fulltime supervision ✓ Pre-work start risk assessment with all team members.
Changing engine oil and filters, replace fuel, air filters where require and refill antifreeze	✓ Exposure to oils, fuels and chemicals ✓ Combustible material	✓ Spillages ✓ Slip, trip & fall ✓ Inhalation of fumes ✓ Smoking around flammable material ✓ Skin contact	✓ Environmental pollution ✓ Skin irritation ✓ Fire ✓ Explosions ✓ Property damage ✓ Burns	High	✓ All engine oils, degreasers and antifreeze supplied shall comply with the applicable SANS, ASTM, API, ACEA and OEM specifications relevant to the product supplied. ✓ Safe work procedure to be in place for refilling of oil. ✓ Only competent workers to do the specialised works. ✓ Fulltime supervision ✓ Pre-work start risk assessment with all team members ✓ All material required to avoid spillages shall be available (Drip tray, oil spill kit).
Checking coolant levels	✓ The cooling system overheats / malfunctions	✓ operates under high pressure. ✓ If the radiator cap is opened while the engine is hot, the sudden release of pressure	✓ Burns	High	✓ Never open the cap when the engine is hot or running. ✓ Wait at least 30 to 60 minutes for the engine to cool down. ✓ As an added precaution, place a thick cloth or towel over the cap before twisting it slowly to the first notch to let off any remaining pressure safely.
Conducting operational and load tests to verify the generator's performance	✓ Load tests	✓ Electric shock/ electrocution	✓ Serious Injuries	High	✓ Start and run the generator until the water temperature stabilizes. ✓ Transfer all manual or automatic transfer switches to the emergency source.

					✓ Step load the generator with the load bank until the desired load is reached. ✓ Remove the load bank load first, after the test ✓ Isolation of the area ✓ Lock-out procedure to implemented. ✓ Fulltime supervision. ✓ Pre-work start risk assessment with all team members.
	✓ Use of tools (Hand tools/ Portable Electrical tools)	✓ Exposure to flying particles. ✓ Defected tools ✓ Lack of competence	✓ Eye injury- Flying particle ✓ Amputations & lacerations- contact with blade ✓ Electric shock	Moderate	✓ Discuss safe working procedures. ✓ Use of competent personnel ✓ Use of suitable PPE for the activity ✓ All tools must be suitable for the activity and in good condition.
	✓ Use of portable electrical tools.	✓ Not following the procedure ✓ Eye penetration ✓ Cuts ✓ Over exposure	✓ Injuries ✓ Property damage ✓ Damaged hearing ✓ Raynaud's syndrome	Moderate	✓ Only the competent personnel to perform task ✓ Works foreman to issue appropriate PPE for the task (Safety Googles, gloves) ✓ Ensure that there are rest period every 30 minutes
Testing the battery and charging system	✓ Electrical Hazards ✓ Chemical Hazards ✓ Thermal Hazards	✓ Accidental short circuits, electric shocks, and arc flashes. ✓ Leaking electrolytes	✓ Acid burns ✓ Electrical burns ✓ Exposure ✓ Eye irritations	High	✓ Testing a generator battery safely requires critical precautions to prevent electrical shorts, sparks, and exposure to corrosive acids. ✓ Always wear insulated gloves, protective clothing, and safety goggles.

					✓ Isolate the battery by turning the generator off, removing the control panel fuse, and disconnecting the negative (black) cable first.
Housekeeping	✓ Poor housekeeping	✓ Slip, trip and fall	✓ Injuries	Low	✓ Keep the work area clean ✓ Do not leave tools unattended ✓ Conduct housekeeping inspections each day ✓ Dispose all the waste generated in the correct waste skips on site/ or disposed then at the approved landfill site

RISK ASSESSMENT MATRIX

Likelihood	Consequences				
	Insignificant (minor problem easily handled by normal day to day processes)	Minor (Some disruption possible e.g. Damage equal to R150k)	Moderate (significant time / resources required. E.g., damage equal to R500k)	Major (Operations severely damaged. E.g., damages equal to R1m)	Catastrophic (business survival is at risk. Damage equal to R5m – 10m)
Almost certain (90% chance)	High	High	Extreme	Extreme	Extreme
Likely (between 50-90%)	Moderate	High	High	Extreme	Extreme
Moderate (between 10-50%)	Low	Moderate	High	Extreme	Extreme
Unlikely (between 3-10%)	Low	Low	Moderate	High	Extreme
Rare (<3%)	Low	Low	Moderate	High	High