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City of Johannesburg

Johannesburg Water SOC Ltd

Turbine Hall
65 Ntemi 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: SUPPLY AND INSPECTION OF CCTV CAMERAS FOR SEWER LINE AT ENNERDALE DEPOT

RFQ NUMBER: RFQJW0051SM2026 – SUPPLY AND INSPECTION OF CCTV CAMERAS FOR SEWER LINE AT ENNERDALE DEPOT	
ADVERT DATE: 19 May 2026	
CLOSING DATE: 29 May 2026	
CLOSING TIME: 16:00	
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 - VENUE: Ennerdale Depot, No2 James Street DATE: 22 May 2026 TIME: 09:00 am	
CONTACT PERSON SUPPLY CHAIN MANAGEMENT Name: Simphiwe Mdlalose Tel No: 011 688 1825 Email: Simphiwe.mdlalose@jwater.co.za	CONTACT PERSON END USER DEPARTMENT Name: Buti Mothupi Tel No: 011 689 2700, 072 369 2571 Email: buti.mothupi@jwater.co.za
Name of Bidder:	
Total Amount excl. VAT:	
VAT Amount:	
Total Amount Incl. VAT:	

Directors:

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

Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Siphon Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,

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:

Specification:

Item no.	Description	Quantity
1.	84. Nirvana Lenasia Ext.1 (Suspecting stuck object in the pipeline)	1
2.	10469 Hyderabad Lenasia Ext.10 (Suspecting Broken or collapsed sewer line)	1
3.	9498 Scorpio Drive Lenasia Ext.9 (Frequent blockages)	1
4.	3213 Poseidon Ennerdale Ext.3 (Suspecting stuck object in the pipeline)	1
5.	Safety File	1

Scope of Work:

The appointed Service Provider will be required to:

- Conduct CCTV inspection of a sewer line for varying diameters ranging from 160mm to 250mm.
- Perform pre-cleaning with high-pressure jetting.
- Inspect the pipeline using a robotic crawler or push camera system which provides a high-resolution video (minimum 1080p)
- Record continuous video footage of the pipeline condition.

Service Provider to identify the following:

1. Blockages and Obstructions.
2. Cracks, Fractures and Collapsed sections.
3. The root intrusion.
4. Pipe misalignment and sagging.
5. Illegal connections If any.
6. Provide accurate distance measurements of defects from entry points.
7. Submit a comprehensive report.



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MINIMUM TECHNICAL REQUIREMENT:

- **CCTV equipment suitable for pipe diameters as mentioned above (160 to 250mm)**
- **The equipment should include LED lighting for clear visibility.**
- **System which can record Distance, Date and Time overlays.**

NOTES:

The Service Provider will be required to submit the following upon completion of the project:

1. **Full CCTV inspection report.**
2. **Video footage on USB/Digital format.**
3. **Defect log and condition assessment.**
4. **Recommendations for repairs or maintenance**



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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.

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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 unauthorized 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.

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**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, BBEE 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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MBD 4

DECLARATION OF INTEREST

- 1. No bid will be accepted from persons in the service of the state.
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.

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, shareholder?):
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...

MSCM 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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MBD 6.1

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.

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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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Registration Number: 2000/029271/30



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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

- (a) **“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.
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“Rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“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 and disposal of assets through public auctions; and

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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.

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- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“Rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
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(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:

$$Ps = 80 \left(1 - \frac{Pt - Pmin}{Pmin} \right) \text{ or } Ps = 90 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

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

$$Ps = 80 \left(1 + \frac{Pt - Pmax}{Pmax} \right) \text{ or } Ps = 90 \left(1 + \frac{Pt - Pmax}{Pmax} \right)$$

Where

- Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system: or
 - any other invitation for tender, that either the 80/20 or 90/10 preference point system

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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		<ul style="list-style-type: none"> 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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DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number.....

4.5. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
One-person business/sole propriety
Close corporation
Public Company
Personal Liability Company
(Pty) Limited
Non-Profit Company
State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct.
ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct.
iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

(a) disqualify the person from the tendering process.

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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 box containing fields for SIGNATURE(S) OF TENDERER(S), SURNAME AND NAME, DATE, and 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	<p>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?</p> <p>(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).</p> <p>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.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>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)?</p> <p>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.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	<p>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?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director), Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Siphon 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

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Table with 4 rows and 4 columns. Row 1: Question 4.4 about municipal rates and taxes, with Yes/No checkboxes. Row 2: Sub-question 4.4.1 for particulars. Row 3: Question 4.5 about contract termination, with Yes/No checkboxes. Row 4: Sub-question 4.7.1 for 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 (Managing Director 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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MBD 9

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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MBD 9

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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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

Sewer line CCTV camera Inspection

2. PURPOSE

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

3. APPLICABILITY

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

4. 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.

5. 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.


6. 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

7. 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

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8. 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.

9. 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.


10. 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

11. WORKING WITH CONSTRUCTION VEHICLES.

- A contractor shall ensure that all construction vehicles and mobile plants are of an acceptable design and construction, are maintained in a good working order and are used in accordance with their design and the intention for which they were designed, having due regard to safety and health
- A contractor must ensure that construction vehicles are operated by workers who have received appropriate training and been certified competent and been authorized to operate such machinery; and are physically and psychologically fit to operate such construction vehicles and mobile plant by being in possession of a medical certificate of fitness;
- A contractor must ensure that construction vehicles have safe and suitable means of access and are properly organized and controlled in any work situation by providing adequate signaling or other control arrangements to guard against the dangers relating to the movement of vehicles and plant, to ensure their continued safe operation.
- A contractor must ensure that construction vehicles are on a daily basis inspected prior to use, by a competent person who has been appointed in writing and the findings of such inspection is recorded in a register.

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A Contractor shall furthermore ensure that:

- No person rides or be required or permitted to ride on any construction vehicle or mobile plant otherwise than in a safe place provided thereon for that purpose;
- Every construction site is organized in such a way that, as far as is reasonably practicable, pedestrians and vehicles can move safely and without risks to health.
- The traffic routes are suitable for the persons using them, sufficient in number, in suitable positions and of sufficient size and that every traffic route is, where necessary indicated by suitable signs for reasons of health or safety.
- When workers are working on or adjacent to public roads, reflective indicators are provided and worn by the workers.

12. DUTIES OF THE CONTRACTOR WHO MIGHT BE EXPOSED TO HBAs

- Any Contractor who is or might be exposed to HBAs must obey any lawful instruction given by or on behalf of the employer or a self-employed person regarding—
- The prevention of an uncontrolled release of an HBA.
- The adherence to instructions regarding environmental and health practices, personal hygiene and good housekeeping.
- The appropriate use of personal protective equipment and clothing as prescribed by these Regulations and the documented risk assessment.
- The appropriate wearing of personal samplers, when necessary, to measure personal exposure to airborne HBAs;
- The disposal of materials containing HBAs and the disinfection and decontamination of any workplace contaminated by an HBA;
- The reporting during normal working hours for such medical examination or tests as contemplated in regulation 8(1); and
- Information, instruction and training

13. ELECTRICAL INSTALLATIONS AND MACHINERY ON CONSTRUCTION SITES

- An employer or self-employed person must ensure that before construction commences and during the progress thereof, adequate steps are taken to ascertain the presence of and guard against danger to workers from any electrical cable or apparatus which is under, over or on the site;
- All parts of electrical installations and machinery are of adequate strength to withstand the working conditions on construction sites;
- The control of all temporary electrical installations on the construction site is designated to a competent person who has been appointed in writing for that purpose.



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- All temporary electrical installations used by the contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site; and all electrical machinery is inspected by the authorized operator or user on a daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

14. WORKING IN CONFINED SPACES

- An employer/contractor shall take steps to ensure that a confined space is entered by an employee or other person only after the air therein has been tested and evaluated by a person who is competent to pronounce on the safety thereof, and who has certified in writing that the confined space is safe and will remain safe while any person is in the confined space, taking into account the nature and duration of the work to be performed therein.

15. 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.
 - Blood pressure tests
 - Glucose tests
 - Vaccinations (Hepatitis A & Typhoid)

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16. 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.

17. 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 supervisor 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

18. 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.

19. 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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20. NOTIFICATION OF CONSTRUCTION WORK

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

21. COMPLIANCE MONITORING

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

22. 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: Sewer line CCTV camera Inspection						
Depot / Site / Department: Ennerdale Depot						
Estimated duration: TBC						
Documents required						
Letter of Good Standing	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
SHE plan	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Risk Assessment	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Safe working Procedures	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Notification of Construction work	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Inspection registers	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Items required before starting						
Medicals	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Vaccinations	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
PPE (boots, hard hats, overall)	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Induction	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Approval from OHS	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
APPOINTMENTS AND COMPETENCIES						
Construction Supervisor						
Appointment	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
CV (and/ certificates)	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Safety Officer						
Appointment	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
CV (and/ certificates)	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
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:	
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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



OCCUPATIONAL HEALTH & SAFETY (OHS) SPECIFICATION: BASELINE RISK ASSESSMENT

PROJECT NUMBER:	RFQ
PROJECT LOCATION:	Ennerdale Depot
PROJECT DESCR:	RFQ for Supply and Inspection of CCTV Cameras for Sewer Line

POSSIBLE RISKS FOR THIS PROJECT

Task	Hazard	Risk	Consequence	Rating	Controls
1.Compliance with applicable legislation for safety, health and environment	<ul style="list-style-type: none"> ✓ Contractor processes and/or procedures not developed according to legislation requirements. 	<ul style="list-style-type: none"> ✓ Not complying with applicable legislation and client SHE specifications. 	<ul style="list-style-type: none"> ✓ Litigation, multiple injuries and death. ✓ Work stoppages 	E	<ul style="list-style-type: none"> ✓ Planning, design and implementation to comply with legislative requirements, especially for Health, Safety and Environment together with Quality. ✓ Appointment of a qualified person to assist with the development of legislative guided processes and procedures.
2.Conducting SHE Induction training	<ul style="list-style-type: none"> ✓ Employees, contractors, suppliers, and visitors not aware of applicable legislating for the project and policies. 	<ul style="list-style-type: none"> ✓ Non-compliance to legislation. 	<ul style="list-style-type: none"> ✓ Work stoppages ✓ Multiple injuries 	E	<ul style="list-style-type: none"> ✓ Every new employee or visitor must be inducted before entering company premises or starting work. ✓ All employees absent from work or on leave for a period of 14days must be inducted. ✓ Inducted visitors must always be accompanied when walking around company premises.
3.Arranging Medical surveillance or examination	<ul style="list-style-type: none"> ✓ Employees not medically fit for work appointed for. ✓ No proof of medical fitness certificate. 	<ul style="list-style-type: none"> ✓ Non-compliance to statutory requirements. ✓ Exposure to unidentified contagious diseases carriers. 	<ul style="list-style-type: none"> ✓ Work stoppages. ✓ Incidents resulting to injuries 	E	<ul style="list-style-type: none"> ✓ Medical examination or assessments must be conducted prior to start of work and annually by an Occupational Medical Practitioner. ✓ Every person must be declared medically fit for the type of work they are performing and copies of employees' medical certificates to be kept on site.

4. Gate access to site premises - by people	<ul style="list-style-type: none"> ✓ Walking on the vehicle's driveways ✓ Lack of observation ✓ Intoxicated pedestrian employee or visitor entering security gate ✓ Employees, visitors or contractors entering with firearm ✓ Unauthorized entry 	<ul style="list-style-type: none"> ✓ Personal injuries due to vehicles driving over people. ✓ Personal fight due to arrogant intoxicated people. ✓ Theft due to unauthorized entry. 	<ul style="list-style-type: none"> ✓ Personal fight due to arrogant intoxicated people. ✓ Work stoppages resulting in delay to production ✓ Theft due to unauthorized entry. 	H	<ul style="list-style-type: none"> ✓ Only Authorised entry on JW premises ✓ Zero alcohol tolerance ✓ All Employees, suppliers and visitors to walk only on designated walkways in and around site/client premises.
5. Gate access to site / client premises – by motorists	<ul style="list-style-type: none"> ✓ Speeding ✓ Intoxicated drivers. ✓ Unlicensed drivers ✓ Inexperienced drivers ✓ Vehicles not roadworthy 	<ul style="list-style-type: none"> ✓ Vehicle accidents. 	<ul style="list-style-type: none"> ✓ Fatalities and Injuries ✓ Death 	E	<ul style="list-style-type: none"> ✓ Security guards at the gate to explain the access control procedure to all motorists entering site /client premises. ✓ All motorists to adhere to all access control procedures explained to them at the gate. ✓ Only roadworthy and licensed vehicles are allowed to drive into site/client premises. ✓ All motorists to be sober ✓ All vehicles must be searched when entering and leaving the premises. ✓ Indemnity declaration to be used for all items/equipment entering with the vehicle in the premises (laptops,)
6. Transport and Delivery of CCTV inspection equipment to site	<ul style="list-style-type: none"> ✓ Manual handling of heavy or awkward loads. 	<ul style="list-style-type: none"> ✓ Musculoskeletal injury, back strain 	<ul style="list-style-type: none"> ✓ Minor to moderate injury 	M	<ul style="list-style-type: none"> ✓ Use mechanical aids (trolleys, lifts) ✓ Team lifting. ✓ Proper manual handling training. ✓ Wear gloves and safety boots

	✓ Slips, trips, and falls during material movement	✓ Minor injury, sprain, fracture	✓ Injuries	M	✓ Keep walkways clear; ensure good housekeeping; maintain dry and even floors.
	✓ Vehicle accidents during transport	✓ Injury or fatality to personnel, damage to materials	✓ Major injury	E	✓ Ensure vehicles are roadworthy ✓ Licensed drivers, use of seatbelts ✓ Adherence to speed limits
7. Offloading of materials	✓ Heavy loads and sharp materials	✓ Manual handling injuries, cuts	✓ Musculoskeletal injuries, lacerations	H	✓ Use mechanical lifting equipment where possible, team lifting, wear cut-resistant gloves, safety boots.
8. Storage of materials	✓ Poor stacking, environmental exposure	✓ Damage to equipment, trip hazards	✓ Equipment failure, injury	L	✓ Store in dry, secure area, stack properly, signage.
9. Site setup and preparation	✓ Open manholes, traffic movement	✓ Falls into manholes, vehicle accidents	✓ Serious injury or fatality	H	✓ Barricade work area ✓ warning signage ✓ traffic control measures.
10. Opening manholes	✓ Exposure to hazardous gases, confined spaces	✓ Toxic inhalation, oxygen deficiency	✓ Asphyxiation, fatality	E	✓ Gas testing before entry ✓ Proper ventilation ✓ Permit-to-work system
10. Sewer line inspection using CCTV camera	✓ Contact with sewage, biological hazards	✓ Infection, contamination	✓ Illness or disease	E	✓ Waterproof gloves, coveralls, hygiene practices, vaccinations where applicable
11. Working near sewage	✓ Exposure to harmful bacteria and viruses	✓ Health risks	✓ Gastrointestinal illness, infections	H	✓ PPE, handwashing facilities, disinfect equipment after use

12. Electrical operation of CCTV equipment	✓ Faulty cables, wet conditions	✓ Electric shock	✓ Serious injury or fatality	E	<ul style="list-style-type: none"> ✓ Use waterproof and insulated equipment. ✓ inspect cables, ✓ RCD protection.
13. Use of generators (if applicable)	✓ Fuel hazards, fumes, noise	✓ Fire, inhalation risks	✓ Burns, respiratory irritation	M	<ul style="list-style-type: none"> ✓ Proper ventilation, fire extinguisher, safe fuel storage
14. Cable feeding into sewer line	✓ Entanglement, snagging	✓ Hand injuries	✓ Cuts, strains	M	<ul style="list-style-type: none"> ✓ Use controlled cable handling procedures, gloves
15. Working in confined spaces (if required)	✓ Poor ventilation, limited escape	✓ Asphyxiation	✓ Fatality	E	<ul style="list-style-type: none"> ✓ Gas testing, permit system, standby person
16. Inspection of traffic areas	✓ Moving vehicles	✓ Collision with workers	✓ Serious injury or fatality	E	<ul style="list-style-type: none"> ✓ Traffic management plan, reflective PPE, warning signs.
17. Retrieval of CCTV equipment	✓ Contaminated equipment	✓ Exposure to sewage contaminants	✓ Infection	M	<ul style="list-style-type: none"> ✓ Clean and disinfected equipment, wear PPE
18. Public interface	✓ Unauthorized access to work area	✓ Injury to public	✓ Legal liability	M	<ul style="list-style-type: none"> ✓ Barricade work area, warning signage, restrict access
19. Data recording and reporting	✓ Electrical equipment use in wet conditions	✓ Shock or equipment failure	✓ Injury or data loss	L	<ul style="list-style-type: none"> ✓ Keep electronics dry, use protected workstations
20. Cleaning and disinfecting equipment	✓ Chemical exposure	✓ Skin or eye irritation	✓ Minor injuries	L	<ul style="list-style-type: none"> ✓ Use gloves, goggles, follow chemical safety instructions
21. Waste removal and housekeeping	✓ Debris on ground	✓ Trips and falls	✓ Minor injuries	L	<ul style="list-style-type: none"> ✓ Regular site cleaning, designated waste disposal areas
22. Final inspection and site reinstatement	✓ Unsecured manholes or incomplete closure	✓ Falls, public hazards	✓ Serious injury	H	<ul style="list-style-type: none"> ✓ Ensure manholes are securely closed and inspected before leaving 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

LEGENDS							
LOW	L	MODERATE	M	HIGH	H	EXTREME	E