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City of Johannesburg

Johannesburg Water SOC Ltd

Turbine Hall  
65 Ntomi 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](http://www.johannesburgwater.co.za)

**YOU ARE HEREBY INVITED TO BID FOR  
REQUIREMENTS OF  
JOHANNESBURG WATER**

**DESCRIPTION: Geotechnical Study for The Davidsonville Sewer Pipe Replacement Project**

**RFQ NUMBER: RFQJW43SC26**

**ADVERT DATE: 16 April 2026**

**CLOSING DATE: 23 April 2026**

**CLOSING TIME: 16:00PM**

**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**  
[\(https://www.etenders.gov.za/\)](https://www.etenders.gov.za/)

**BRIEFING SESSION - VENUE: NOT APPLICABLE**

**DAT**  
**E:**  
**TIM**  
**E:**

**CONTACT PERSON  
SUPPLY CHAIN MANAGEMENT**

Name: Silas Choeru  
Tel: 011 688 1815  
Email: [silas.choeru@jwater.co.za](mailto:silas.choeru@jwater.co.za)

**CONTACT PERSON  
END USER DEPARTMENT**

Name: Nhlanhla Nkosi  
Tel: 011 688 1632  
Email: [Nhlanhla.nkosi@jwater.co.za](mailto:Nhlanhla.nkosi@jwater.co.za)

**Name of Bidder:**

.....

**Total Amount excl. VAT:**

..... VAT

**Amount:**

.....

**.... Total Amount Incl. VAT:**

.....



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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**



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### **Guide: How to submit a response on the E-tender Portal**

- Submit on E tender portal, following the below:
  1. (<https://www.etenders.gov.za/>)
  2. Search/Click Browse Opportunities by organ of state (Johannesburg Water)/search by RFQ reference number.
  3. Click the + **sign** to expand the tender/ RFQ information.
  4. start the e submission process.
  5. Supplier login
  6. Use your CSD Credentials to Login. Contact CSD on ([csd@treasury.gov.za](mailto:csd@treasury.gov.za)) in case you forgot your login credentials. “My profile should show if you have logged in successfully”.
  7. select supplier.
  8. check the submission checklist and attached the compulsory documents.
  9. confirm and proceed.

### **If the application is not going through on the E-tender portal Contact:**

eTenders Contact Centre

+27(0)12 406 9222 / 012 406-9229 / 012 312-5000

[etenders@treasury.gov.za](mailto:etenders@treasury.gov.za) <https://etenders.treasury.gov>



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## **Specification:**

ITEM NO.	DESCRIPTION	DESCRIPTION OF ITEM OFFERED	UOM	QTY REQUIRED
1	Geotechnical Study for The Davidsonville Sewer Pipe Replacement Project (Please refer to the attached BOQ and Specification Below)	Davidsonville Sewer Pipe Replacement Project -Geotechnical Study		1
		(Please indicate as per Subtotal 2 on Page 3 of the BOQ)		

## **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.

Directors:

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

Ms Kethabile Mabe (Company Secretary),

Johannesburg Water SOC Ltd

Registration Number: 2000/029271/30



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Mr Kgaugelo Mahlaba (Chief Financial Officer and Executive Director), Mr Sipho Mthembu, Ms Zandile Meeleso, Mr Pholoso Matjele,  
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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 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](mailto: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](mailto:informationofficer@jwater.co.za).



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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),

Johannesburg Water SOC Ltd

Registration Number: 2000/029271/30

## 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 of .....20.....

.....  
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**

I ..... a 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:**

<b>Returnable Documents</b>	<b>Description</b>	<b>Yes/No</b>
1	Original Valid Tax Clearance Certificate /valid SARS PIN	<b>COMPULSORY</b>
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)	<b>COMPULSORY</b>
3	Municipal rates and taxes (Must not be older than 90 days in arrears in line with regulation 38.	<b>COMPULSORY</b>
4	Signed Declaration of Interest form (MBD 4)	<b>COMPULSORY</b>
5	Declaration of Bidders past supply chain management practices (MBD 8)	<b>COMPULSORY</b>
6	Certificate of Independent Proposal Determination (MBD 9)	<b>COMPULSORY</b>
7	Proof of CSD registration /MAAA Supplier Number	<b>COMPULSORY</b>
8	Preference points claim form in terms of the preferential procurement regulations 2022 (MBD 6.1)	<b>COMPULSORY</b>
9	Company registration documents with ID copies of directors / shareholders.	<b>COMPULSORY</b>



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### Directors:

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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
Closing Time	Closing

**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)
<b>SUB-TOTAL</b>				<b>R</b>
<b>VAT AT 15%</b>				<b>R</b>
<b>GRAND TOTAL (BID PRICE IN RSA CURRENCY WITH ALL APPLICABLE TAXES INCLUDED)</b>				<b>R</b>

**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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Ms Kethabile Mabe (Company Secretary),

Johannesburg Water SOC Ltd

Registration Number: 2000/029271/30



**MBD 4**

**DECLARATION OF INTEREST**

1. No bid will be accepted from persons in the service of the state<sup>1</sup>.
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, hareholder<sup>2</sup>): .....
- 3.4 Company RegistrationNumber: .....
- 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.....  
.....

<sup>1</sup>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.

**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 Ms Kethabile Mabe (Company Secretary),

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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.....

Directors:

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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: .....

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 Ms Kethabile Mabe (Company Secretary),

Johannesburg Water SOC Ltd

Registration Number: 2000/029271/30



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Fax +27(0) 11 688 1528

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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**

Directors:

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

#### Directors:

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

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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
<b>PRICE</b>	80
<b>SPECIFIC GOALS:</b>	20
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

- 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

#### Directors:

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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:

<b>80/20</b>	<b>or</b>	<b>90/10</b>
$P_s = 80 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right)$	or	$P_s = 90 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right)$

Where

- P<sub>s</sub> = Points scored for price of tender under consideration
- P<sub>t</sub> = Price of tender under consideration
- P<sub>min</sub> = 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—

(a) 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

(b) 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) <b>51% or more black owned by Black People</b>	80		<ul style="list-style-type: none"> <li>Valid BBEE Certificate issued by SANAS accredited verification agency or DTI /CIPC BBEE Certificate for Exempted Micro Enterprises or Qualifying Small Enterprise or Affidavit sworn under oath.</li> </ul>



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### Directors:

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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:

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

Ms Kethabile Mabe (Company Secretary),

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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><b>The Database of Restricted Suppliers now resides on the National Treasury's website(<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b></p>	Yes	No
		<input type="checkbox"/>	<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><b>The Register for Tender Defaulters can be accessed on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</b></p>	Yes	No
		<input type="checkbox"/>	<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	No
		<input type="checkbox"/>	<input type="checkbox"/>
4.3.1	If so, furnish particulars:		

Directors:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director and Executive Director),  
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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 <input type="checkbox"/>	No <input type="checkbox"/>
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 <input type="checkbox"/>	No <input type="checkbox"/>
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 (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 bids<sup>1</sup> 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).<sup>2</sup> 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:

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.

<sup>2</sup> 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

Directors:

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

Ms Kethabile Mabe (Company Secretary),

Johannesburg Water SOC Ltd

Registration Number: 2000/029271/30



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## City of Johannesburg

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Johannesburg Water SOC Ltd

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[www.johannesburgwater.co.za](http://www.johannesburgwater.co.za)

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



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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 consortium<sup>3</sup> 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.

<sup>3</sup> 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.

Directors:

Ms Kethabile Mabe (Company Secretary),

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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:

Ms Dineo Majavu (Chairperson), Mr Ntshavheni Mukwevho (Managing Director 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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Registration Number: 2000/029271/30

Volume	1	2		
Part	C1	C2	C3	A

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GEOTECHNICAL INVESTIGATION SERVICES

**NAME OF SERVICE  
PROVIDER** .....

**JOHANNESBURG WATER**

**DAVIDSONVILLE GEOTECHNICAL INVESTIGATION SERVICES**

**REQUEST FOR QUOTATION**

**SCHEDULE OF QUANTITIES / BILLS OF QUANTITY AND SPECIFICATIONS**



Registration No: 2000/029271/30

**REQUESTED BY:**

**Mkateko Rambau**

**PHONE NUMBER:**

**011 688 1907**

**EMAIL ADDRESS:**

**Mkateko.rambau@jwater.co.za**

Volume	1	2		
Part	C1	C2	C3	A

**DAVIDSONVILLE GEOTECHNICAL  
INVESTIGATION SERVICES**

ITEM NO.	DESCRIPTION	UNIT	Qty	TENDERED RATE	Amount
1	<b>Professional Fees</b>	Sum	1		
2	<b>Laboratory Tests</b>				
2.1	<b>Civil Tests</b>				
2.1.1	Sieve Analysis	No. of tests	5		
2.1.2	Hydrometer	No. of tests	5		
2.1.3	Atterberg Limits	No. of tests	5		
2.1.4	Unconfined Compression test(soil/rock cores)	No. of tests	5		
2.1.5	Moisture content	No. of tests	3		
2.1.6	Natural and dry density test	No. of tests	5		
2.1.7	Direct Shear Testing	No. of tests	5		
2.1.8	CBR Test	No. of tests	10		
2.1.9	Permeability Test	No. of tests	5		
2.1.10	Maximum dry Density and Optimum moisture content test	No. of tests	5		
3	<b>Trial Pits</b>				
3.1	Excavation of soft material 1 No. test pit up to 5m or up to groundwater table whichever is met earlier, below NGL. Rate to include: all equipment, labour, materials and any other costs associated with this activity. Rate to include collection of undisturbed soil samples, packing, storage and transportation to an approved testing laboratories. Rate also includes backfilling and compaction of boreholes to their original conditions using approved backfilling material, from the trench or from commercial sources.	No. of pits	5		
3.2	Extra over for item 2.1 Excavation in intermediate material	m <sup>3</sup>	50		
3.3	Extra over for item 2.1 Excavation in rock material	m <sup>3</sup>	50		

Volume	1	<b>2</b>		
Part	C1	<b>C2</b>	C3	A

## Scope of Work

<b>4</b>	<b>Compliance with Environmental and Health and Safety Acts</b>				
4.1	Compile OHS file commencement of Contract (Once off)	Sum	1		
4.2	Comply with OHS requirements per project allocated	Sum	1		
<b>5</b>	<b>ESTABLISHMENT COSTS (P&amp;G)*</b> Provision for mobilisation of resources; scope verification; gathering of desktop information, documents and maps each time geotechnical investigation is required.	%			
<b>6</b>	<b>DISBURSEMENTS *</b>	Sum	1		
<b>TOTAL</b>					

ITEM No.	Summary	AMOUNT
	<b>DESCRIPTION</b>	
1	Professional Fees	
2	Laboratory Tests-Civil tests	
3	Trial Pits	
4	Compliance with Environmental and Health and Safety Acts	
	<b>SUB TOTAL 1</b>	
5	Add % Establishment Costs	
6	Disbursements	
	<b>SUBTOTAL 2</b>	
	ADD 15% VAT	
	<b>TOTAL</b>	

Volume	1	2		
Part	C1	C2	C3	A

**\*The Service Provider will commence working (2) days after issuing the Works Order. If the Service Provider fails to commence with the Works within this given duration, the Works Order will be cancelled.**

**Please ensure that you attach your Professional Indemnity (PI) of not less than R1 000 000.**

Name and Surname of Service Providers Representative:.....

Signature of Service Provider:.....

Date:.....

Volume	1	2		
Part	C1	C2	C3	A

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## C3 SCOPE OF WORK

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### C3.1 Employer's Objectives

The objective of the Employer is to appoint an experienced Service Provider to provide geotechnical investigation for the Davidsonville sewer project.

### Location of the works

The site location is in the suburb of Davidsonville, in Region C of the City of Johannesburg. The approximate central co-ordinates are -26.155927, 27.848790.

---

### C3.2 Description of the Services

The Service Provider shall be required to carry out the services as governed by the Engineering Council of South Africa, (ECSA, Act No. 46 of 2000) or South African Council for Natural Scientific Professions, (SACNASP Act No. 27 of 2003) as applicable and thus the geotechnical recommendations provided should be sound and adequate to enable the Engineer to produce designs and execute and construction projects properly during the Contract Period of Performance.

Geotechnical services, evaluations, and recommendations related to the design of pump stations, reservoirs, and pipelines shall be conducted by a qualified, experienced Geotechnical Engineer or Geologist with current professional registration with the relevant professional body, as the Engineering Council of South Africa (ECSA) or the South African Council for Natural Scientific Professions (SACNASP), respectively. The Geotechnical professional shall have experience on previous pipeline projects, previous local experience, and knowledge of local soil and geological conditions and construction practices.

---

### C3.4 Extent of the Services

The Service Provider shall be required to provide the summarised minimum services, among others:

- a) Way leave application
- b) Site reconnaissance investigation
- c) Geophysical investigations
- d) Detailed investigations – trial pits or soil boring as applicable.
- e) Logging and profiling.
- f) Soil corrosion potential
- g) Laboratory testing
- h) Compliance to environmental, health and safety acts
- i) Geotechnical data report
- j) Geotechnical evaluation and recommendations report
- k) Monitoring services during construction phase in Dolomitic conditions

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***The above services shall only be required for the stated Contract Period of Performance.***

### **C3.5 Brief**

#### **C3.5 Scope**

This Specification describes in general terms the requirements for the geotechnical investigation, evaluation, recommendation, and reporting.

Generally, the scope of the Works is as follows.

#### **C3.5.1 Pipelines**

For new and existing pipeline routes, the objectives of the investigation shall include but not limited to the following:

- Identify site geology and surface and sub-surface features along the alignment that may affect the construction of the pipeline
- Categorise the excavation conditions along the pipeline route (including shallow bedrock, boulders etc.
- Identify problem soils (expansive, collapsible, and subsidence) with recommendations and remedial measures.
- Assessment of suitability of trench materials as bedding and selected backfill.
- Delineate areas of high water table and establish de-water needs.
- Assess the potential corrosiveness of buried steel and concrete pipes.
- Dolomite stability assessment and information where necessary.

The following is a descriptive guide to the activities that may be done in various stages of the investigation:

#### **C3.5.2 Way Leave Application**

As some of the work will be done in built up areas with above and underground services, the Service Provider will therefore be required to obtain permits and way leaves from all the applicable service providers within the jurisdiction of the CoJ, thus including but not limited to the following services: roads and storm water (JRA), bulk water supply (Rand Water), electricity (Eskom and City Power), gas (Egoli Gas), telecommunications (Telkom).

The Employer will assist the service provider to obtain clearance from the various departments with services that are likely to be affected by the contract. It is, however, the service provider's responsibility to obtain final permit and wayleave approval according to applicable procedures and specifications. In the case of JRA, this will be as per the CoJ COP. Further, a processing fee per wayleave will be payable to cover the cost of processing and approval of the JRA wayleave applications.

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### C3.5.3 Site Reconnaissance Investigation

- Data review of published geologic reports/information, geologic maps, studies, groundwater and soil maps, regional seismic and geological data, and other available subsurface information in the project vicinity.
- Identification of geologic hazards along the pipeline's route.
- Evaluation of potential construction constraints and development of possible mitigation.
- Engineering observation of the following items shall be included as part of the examination:
  - Vegetation.
  - Existing improvements.
  - Adjacent structures and facilities.
  - Surface features (including drainage ways).
  - Unusual conditions (landslides, subsidence, rock outcroppings).
  - Nearby construction (observe slopes, excavations, exposed soils).

### C3.5.5 Geophysical Investigations

Where practicable, a geophysical investigation shall be undertaken and shall comprise a seismic or resistivity or gravimetric or electromagnetic evaluation of the subsurface conditions of sufficient extent and depth to assist in the selection of the most economic detailed investigation as well as in the siting of foundations.

### C3.5.6 Detailed Investigations – Trial pits

The purpose of exploratory holes is to permit visual examination, testing of the in-situ material and the recovery of samples.

Generally, hand or machine (bulldozers, backhoes) excavated test pits should be put down first, followed by large diameter auger holes and finally small diameter cored holes.

It is preferred that the trial pits be excavated as follows:

- Sewer pipeline test pit is usually 3m to 6m deep by 1m wide and 3m to 5m long, at intervals of 200m.

This will reduce the possibility of having to excavate additional trial pits if the pipe / Structural Infrastructure elevation is later changed during design. However, due to the varying site conditions, the proposal shall be made by the relevant professional (Employer's Representative) before the service provider commences with the geotechnical study for the following:

- The interval of the trial pits,

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- The ultimate number of trial pits
- The maximum excavation depth of the trial pit.

**Note: For each project, no works shall be done by the geotechnical professional before approval by the Employer's Agent or Employer's Representative of the proposed methodology/recommendation prior to investigation.**

The service provider shall adequately support the sides of pits and trenches at all times to protect anyone entering and working in the hole. The supports shall be placed so as to minimize interference with the taking of samples or inspection of the faces.

The service provider shall take all necessary safety checks, including checking for noxious or toxic gases or materials, or radioactive materials.

After sampling, the service provider should ensure that the trial pits and exposed services are reinstated to conditions existing prior to and in accordance with the respective service provider specifications. In road reserves, CoJ /JRA bylaws Regarding Reinstatement of Roads shall apply for Backfilling and Reinstatement of Roads. Where applicable, the material intersected in the trial pits should be assessed for use as bedding and selected fill material. Where the material is not suitable for use as bedding and or selected fill, the service provider should make arrangements to ensure that the material is imported from commercial sources.

### **C3.5.7 Logging and Profiling.**

This work shall be carried out in accordance to applicable and acceptable standards such as:

- A guide to soil profiling for Civil Engineering purposes.
- A guide to core logging for Civil Engineering purposes.
- A guide to percussion bore hole logging.

*Produced by SAIEG, SAICE Geotechnical Division and AEG, latest edition, edited by ABA Brink and RM Bruin.*

### **C3.5.8 Corrosion Analysis and Evaluation**

The data related to the soil corrosivity study should be collected during or as part of the geotechnical investigation. It will be important that the service provider coordinate the geotechnical investigation and the corrosivity investigation.

The need for corrosion control shall be determined through field investigations and laboratory analyses to assess the corrosion potential of the environment toward pump station facilities and site piping materials. Field investigations shall be conducted at all proposed pipe routes, pump station facilities and coordinated with geotechnical studies for efficiency in retrieving

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samples.

The corrosion potential of the soil is dependant on soil resistivity. Generally, as the soil resistivity decreases, corrosion increases. Also, as the soil moisture increases, resistivity decreases.

### C3.5.9 Stray Currents:

The evaluation of stray current may require the use of specialty Geotechnologists with expertise in this area. It is the service provider's responsibility to provide the necessary expertise to meet these requirements.

Field investigations shall include interviews with knowledgeable sources and measurements to determine the potential for stray current from both AC and DC sources. Possible sources of stray current include cathodic protection systems operated by other utilities or companies; electric transit systems, if any; overhead and buried power lines and industrial sources such as metal processors and welding shops.

Evaluations shall also consider the possible effects of cathodic protection systems on other buried utilities in the vicinity. It is the service provider's responsibility to contact the utility companies to determine the extent, if any, of a cathodic protection system in use.

### C3.5.10 Laboratory Testing

The soil testing should be done by an accredited soils testing laboratory, approved by the Employer.

Laboratory tests required to be determined by the service provider. The minimum Laboratory test to include:

#### Civil Laboratory Tests

- Grading and Atterburg limits
- Chemical Testing
- Shear Box Testing
- MOD AASHTO Density

#### Chemical and corrosivity analysis.

Soil samples shall be collected for laboratory analysis of corrosive properties. Tests shall be conducted for the following parameters Chemical test and corrosivity analysis shall include the following:

- Test for pH, chlorides and sulphates.
- Electrical resistivity.
- Corrosion potential for buried pipelines.

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- Cement type recommendations

**The laboratory testing program should be prescribed by the service provider and reviewed and approved by the Engineer.**

The service provider should also note that, the results of field investigations and interviews coupled with laboratory tests shall be evaluated to determine also the needs for cathodic protection. The results shall be interpreted by persons experienced with corrosion control systems.

#### **C3.5.11 Compliance to Environmental, Health and Safety Acts**

It should be noted that all the activities associated with the investigation including, excavation of trial pits should be done with due diligence and care for the safety of the public and the environment. Compliance to the relevant specifications of the Occupational, Health and Safety Act and Environmental Acts should be adhered to.

#### **C3.5.12 Geotechnical Data Evaluation Report**

This should include geotechnical information accumulated in the field reconnaissance, data review if any, field explorations, field resistivity testing, laboratory testing, etc

As highlighted above, geotechnical evaluations and recommendations shall be conducted by a qualified geotechnical professional who is a Geotechnical Engineer or Geologist with current professional registration with Engineering Council of South Africa, (ECSA) or South African Council for Natural Scientific Professions, (SACNASP).

The geotechnical professional shall be qualified by the following:

- Experience on previous pump stations, reservoirs and pipelines including large diameter pipes projects
- Previous local experience
- Knowledge of local soil and geological conditions and construction practices.

The geotechnical professional shall be able to present examples of previous reports and shall provide references for previous local work.

#### **C3.5.13 Geotechnical Data Report**

Shall include but not limited to the following:

##### **C3.5.13.1 Test pits data report**

Detailed test pit logs shall be prepared for inclusion in the data report.

The minimum information to be presented on the test pit log is:

- Test pit number, location, elevation.
- Excavation contractor (company and operator name, office location).

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- Equipment used (kind of equipment, approximate horsepower rating, bucket width, use of rippers).
- Water level, date and time measured.
- Soil description.
- Comments (observations of excavation difficulty, stability of pit walls including the duration of observation, debris encountered, water seepage and infiltration rate, results of in situ tests, operator comments, etc.).
- Map on location of test pits.
- If cobbles and boulders are encountered in a test pit, the number and size of cobbles and boulders excavated from the test pit shall be noted; the relative amount of cobbles/boulders per volume excavation can then be calculated and presented in the Interpretation of Data section of the data report.
- If cemented materials are encountered along the pipeline alignment, their thickness and lateral extent should be estimated and their difficulty of excavation evaluated and presented in the Data section.

#### **C3.5.13.2 Soil Borings**

Shall be excavated to supplement or substitute for the soil test pits where permitted by the site features and where appropriate.

The minimum information to be provided on the **soil boring logs** is:

- Boring number, location, elevation.
- Drilling contractor (company name, office location),
- Drilling method, and equipment used.
- Water level, date and time measured.
- Soil description (see below).
- Comments (observations of drilling difficulty, driller's observations of material changes or boulders, addition or loss of drilling fluid, etc.).
- Map identifying boring locations.

#### **C3.5.13.3 Soil descriptions.**

Shall be in accordance with the relevant acceptable Standards or similar used in South African Industry and approved by the Engineer to provide soil information for engineering purposes. Geologic formations that are weathered to soil shall be described in accordance with their engineering properties; the geologic description may be presented following the engineering

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description. Geologic formation names should not be provided on the boring logs but may be described in the Interpretation of Data portion of the Geotechnical Data Report.

The format and order for soil descriptions shall be presented in the boring logs as follows:

- Soil name
- Group symbol.
- Color.
- Moisture content.
- Relative density or consistency.
- Other descriptors as appropriate (soil structure, mineralogy, particle size, shape, angularity, maximum particle size, plasticity of fines, dilatancy, cementation, etc.).

**a) Bedrock**

A surface evaluation of any encountered bedrock shall be performed. The evaluation shall describe discontinuities (type, orientation, roughness, planarity, infilling material and thickness, surface staining, and tightness) and lithology (rock type, color, mineralogy, hardness, and rock mass characteristics).

**b) Lithology descriptions** must rely on professional judgment and experience, and local practice and terminology shall be used. For engineering purposes, general rock names are preferred over petrologically specific names (for example, sandstone and basalt are preferable rock names to arkose and tholeiite). Specific formation names may be provided in the report.

**C3.5.13.4 Interpretation of Data Section of the data report.**

**C3.5.14 Geotechnical Recommendations Report.**

The Geotechnical Recommendations Report will generally follow the Geotechnical Data Report as a companion volume; information already presented in the Data Report should generally not be repeated in the Recommendations Report. The Recommendations Report is intended for use by the Engineer; however this information may also be made available to prospective bidders. Provide recommendations on:

- Existing Conditions
- Hydrological conditions
- Dewatering needs

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- Flooding and erosion potential
- Excavation characteristics/diggability
- Suitability of trench soils for backfill and or processing requirements
- Trench stability, shoring requirements.
- Slope stability
- Shrink/swell potential/ expansive and collapsible soils
- Dolomite stability / ground subsidence
- Earthworks and stability next to existing pipeline and other structures.
- E values (and other parameters) for pipe thickness design and other design requirements.
- Corrosive soils.
- Possible construction constraints,
- Construction sequences
- Precautionary measures
- Dump sites.
- Borrow pits
- Crossings/trenchless crossings etc
- Traffic ability along the route for trucks carrying pipes.
- Mitigation alternatives to reduce potential impacts to proposed pipelines.
- Expected bearing capacity and settlement for the respective materials on which founding could be considered.
- Borings or test pit excavations plotted on a suitable map in the report.
- Provide X, Y, Z locations for all boring or test pits

It should be noted that a combined data and recommendations report (one that contains all of the elements of both reports) may be developed for small projects as agreed upon by the Geotechnical Professional and Engineer. Separation of the factual data (background, technical data, and data interpretation) from design recommendations provides a separation of factual and subjective information for the construction bidders and allows the design criteria to be modified as the project changes during the various design phases. Three (3) copies should be provided of each report per stage as discussed in C1.2.4.7.

---

#### **C6 Use of Reasonable Skill and Care**

The Service Provider shall exercise reasonable skill and care in respect of the services required as per the The Service Provider shall be required to carry out the services as governed by the Engineering Council of South Africa, (ECSA, Act No. 46 of 2000) or South African Council for

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Natural Scientific Professions, (SACNASP Act No. 27 of 2003) as applicable and thus the geotechnical recommendations provided should be sound and adequate to enable the Engineer to produce designs and execute and construction projects properly during the Contract Period of Performance.

Geotechnical services, evaluations, and recommendations related to the design of pump stations, reservoirs, and pipelines shall be conducted by a qualified, experienced Geotechnical Engineer or Geologist with current professional registration with the relevant professional body, as the Engineering Council of South Africa (ECSA) or the South African Council for Natural Scientific Professions (SACNASP), respectively. The Geotechnical professional shall have experience on previous pipeline projects, previous local experience, and knowledge of local soil and geological conditions and construction practices.

C3,4 Extent of the Services section.

#### **C7 Co-operation with other Service Providers and Contractors**

The Service Provider shall be required, for the successful execution of his service provision, to interact with other service providers and principal contractors appointed by the Employer.

#### **C8 Reference Data**

The Employer shall provide the Service Provider will all reference data and locality maps of the areas to be investigated at the issue of each Work order.

#### **C9 Particular Specifications**

For the purpose of this Contract:

- a) Where gender terms are used, it shall be applicable to both male and female.

#### **C10 Applicable National and International Standards**

The following International standards (or similar used in the South African Industry and approved by the Engineer) shall be read in conjunction with these specifications as applicable to the service provision under this Contract:

BS 1377-1:1990	Soils for Civil Engineering Purposes – General Requirements and Sample Preparation
BS 1377-2:1990	Soils for Civil Engineering Purposes – Classification Tests
BS 1377-3:1990	Soils for Civil Engineering Purposes – Chemical and Electro-chemical Tests
BS 1377-5:1990	Soils for Civil Engineering Purposes – Compressibility, Permeability and Durability Tests
BS 1377-7:1990	Soils for Civil Engineering Purposes – Shear Strength Tests (Total Stress)
BS 5930:1990	Code of Practice for Site Investigation

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BS EN 1997-2:2007	Geotechnical Design – Ground Investigation and Testing
ASTM D7012:2010	Standard Test Method for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures
BS EN ISO 22475-1	Geotechnical Investigation and Testing – Sampling Methods and Groundwater Measurements: Technical Principles for Execution
BS EN ISO 22476-2	Geotechnical Investigation and Testing – Field Testing: Standards Penetration Test.

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### C11 Approvals

The Service Provider shall obtain approval from the Employer's representative with regard to the:

- a) authorisation;
- b) stopping sections of the works or complete works, unless the reason for stopping section of the works or the complete works is required to ensure the safety of the public, employees or sub-contractors of the principle contractor.

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### C12 Procurement

The Service Provider will take account of the Employer's Preferential Procurement Policy and broad-based black economic empowerment ownership participation requirements for this Contract and note that:

- a) The Employer reserves the right to conduct broad-based black economic empowerment ownership participation audits during the Contract Period of Performance to ensure that the appointed broad-based black economic empowerment ownership is either maintained or improved during such period. Thus the Employer reserves the right to verify or re-verify the Service Provider's or any sub-contractor appointed by the Service Provider's Broad-based black economic empowerment status should he deem it necessary, without having to specify any reason. Such verification may be extended to include other preferential procurement criteria, should the Employer deem it necessary.
- b) where broad-based black economic empowerment ownership participation is altered during the Contract Period of Performance, the Service Provide shall formally notify the Employer and indicate *how and when* such 'lost' broad-based black economic empowerment ownership participation shall be re-established.

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### C13 Access to land / buildings / sites/Wayleaves

The Service Provider shall report to the principal contractor before entering the construction works site. The Service Provider shall be responsible for obtaining different wayleaves from Service Providers.

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## **C14 Planning and Programming**

### **C14.1 Planning**

The Service Provider shall ensure that he:

- a) is well informed with regard to the Employer's overall implementation programme for projects and make available resources as required to efficiently complete required services on time to avoid delays to the implementation plan.

### **C14.2 Programming**

The Service Provider shall, prior to commencement of any work, provide an activity schedule showing the total duration required to complete the geotechnical investigation required on each project.

The programme shall at minimum contain:

- a) Time Scale (minimum):
  - Days: Where the project period does not exceed three months.
  - Weeks: Where the project period exceeds three months.
- b) Tasks: Tasks shall be allocated timeframes. Where phases or stages are anticipated, all tasks related to the successful accomplishment of that phase of the project shall be grouped. Resources allocation and task dependency shall be indicated.
- c) Multiple Project Programming: Where multiple projects are part of the same Contract, the Service Provider shall provide a programme per project. However, where interdependency exists the programmes shall be integrated, but divided on the highest level per project followed subsequently by further divisions per phase or stage.
- d) Start and Finish Dates: All tasks shall have specific start and finish dates.
- e) Critical Path: All tasks forming the programme line that will establish any delays in the overall project period shall be clearly indicated and an indication of their sensitivity characteristics shall be provided.
- f) Progress Tracking: The Service Provider shall be required to periodically indicate the project progress per task graphically and on a percentage basis.
- g) Non-working Time: All South African public holidays, weekends and the local traditional annual builder's break shall be incorporated in the programme.

## **C15 Software Application for Programming**

Only Windows Microsoft Project programming software package will be accepted.

## **C16 Format of Communications**

All Contract communication shall be in English and in writing (letters, faxes and electronic mail).

## **C17 Key Personnel**

To obtain the greatest benefit from the investigation, it is essential that there be adequate direction and supervision of the work by competent personnel who have appropriate knowledge and experience

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and the authority to decide on variations to the investigation when required. The Service Provider shall be required to allocate sufficiently experienced key personnel, who are also professionally registered with regard to the Engineering Council of South Africa, (ECSA, Act No. 46 of 2000) or South African Council for Natural Scientific Professions, (SACNASP Act No. 27 of 2003) requirements as applicable and the actual implementation thereof, to execute the Contract successfully. The following shall be the minimum key personnel required for each project executed:

- a) 1 X Senior Engineering Geologist/Senior Geo-Technologist
- b) 1 x Engineering Geologist/Geo-Technologist

The relevant qualifications and CVs are to be submitted as part of the returnable documents.

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#### **C19 Electronic Payments**

The Service Provider shall provide all necessary information to facilitate effective electronic payment, as require by the Financial Department of the Employer.

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#### **C20 Professional Indemnity Insurances**

The Service Provider shall provide two hard copies of the details of existing insurance/s with the returnable documents that form part of the submission data. In the event of a Joint Venture or Consortium, the Lead Consultant shall be responsible to provide the Professional Indemnity Insurance.

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#### **C21 Daily Records**

Where the Employer requires the Service Provider's to perform work on a time-and-cost basis, such work shall be remunerated on actual time and cost incurred by the Service Provider, who will be required to submit proof.

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#### **C23 Use of Documents by the Employer**

All information (communications, documents or reports, including specialists reports) compiled by the Service Provider in the course of performing the service required for this Contract are the property of the Employer and may not be used by the Service Provider for any other duties other than those relating to this Contract without prior approval by the Employer.

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#### **C24 Property provided for the Service Provider's use**

The Service Provider shall provide all physical resources, including properties, for the successful execution of the Contract.

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#### **C25 Occupational Health and Safety File**

The Service Provider shall be required to submit a Health and Safety File to Johannesburg Water for approval before commencement of any Work Package.

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## ANNEXURES

