

# FEZILE DABI DISTRICT MUNICIPALITY



**Fezile Dabi**  
District Municipality

## MUNICIPAL INFRASTRUCTURE GRANT (MIG) PROGRAMME 2024/2025

A CIDB DOCUMENT

**BID NO: 011/2024-25**

Project Title:

**REFURBISHMENT OF THE SEWER PUMP STATION IN  
TWEELING/MAFAHLANENG:**

Tenderer	
Address of Tenderer	
Telephone	
Facsimile	
Tender Amount	
Completion Period	

NOVEMBER 2024

**EMPLOYER:**

**FEZILE DABI DISTRICT MUNICIPALITY**  
John Vorster Rd  
Sasolburg, 1947  
Telephone : +27 (016) 970 8600  
Facsimile : +27 (016) 970 8733

**EMPLOYER'S AGENT**

**FLAGG Consulting Engineers**  
P O Box 864  
FRANKFORT, 9830  
Telephone : 058 813 2173  
Facsimile : 058 813 4254

# FEZILE DABI DISTRICT MUNICIPALITY

## REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING/MAFAHLANENG

BID NO: 011/2024-25

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**VOLUME 1**  
**TENDERING PROCEDURES**

**FEZILE DABI DISTRICT MUNICIPALITY**  
**REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING /**  
**MAFAHLANENG**

**TENDER DOCUMENT**

**PART T1: TENDERING PROCEDURE**

**BID NO: 011/2024-25**

**DATA PROVIDED BY THE TENDERER**

**NAME OF TENDERER:** \_\_\_\_\_

The legal name of the Contractor

**ADDRESS OF TENDERER:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Physical address, postal address and e-mail address where the Contractor will receive notice

**TELEPHONE No.:** \_\_\_\_\_

**FAX No.:** \_\_\_\_\_

**AUTHORISED PERSON:** \_\_\_\_\_

**TENDER AMOUNT:** R \_\_\_\_\_

**TIME FOR COMPLETION:** The Works shall be completed within \_\_\_\_\_

State total number of days, weeks, months or years which must include the special non-working days and the year-end break.

**TENDERER:** .....

**DATE:** .....

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### **NOTICE**

#### **CONDITIONS FOR THE ACQUIRING OR PURCHASE OF THIS DOCUMENT**

It is explicitly agreed that any person acquiring or purchasing this document does so with the sole purpose of submitting a bona fide tender in terms of the document and will be prohibited to make public the contents of the document or any part thereof or supply it to or let it be used by any other party other than for the purpose of assistance by such other party in meeting any necessary requirements related to the submission of a bona fide tender in terms of the document.

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**FLAGG Consulting Engineers (Pty) Ltd**

**FRANKFORT**



## REQUEST FOR PROPOSALS/WRITTEN QUOTATIONS

Fezile Dabi District Municipality hereby invites services providers to submit proposal/bids for the below mention project.

Bid Number	Bid Description	Points System	Functionality	Document Price	Closing date	Site Briefing	Contact Person
011/2024-25	<b>Advert: Refurbishment of the Sewer Pump Station in Tweeling/ Mafahlaneng</b>  CIDB Grading 2MEPE / 3ME or Higher	80/20 Preferential points system and functionality	<b>Experience: 25</b> <b>Personal Capacity &amp; Resources: 40</b> <b>Financial Viability: 10</b> <b>Quality of Work: 25</b> The minimum points for further evaluation is 70 points	R750.00 (Cash or Direct deposit with proof of deposit.) Alternatively free on eTender, <a href="http://www.etender.gov.za">www.etender.gov.za</a>	<b>Tuesday, 26<sup>th</sup> November 2024 at 12:00pm</b> Fezile Dabi District Municipality Main Building Sasolburg	The compulsory briefing will be held on 19 <sup>th</sup> November 2024 at 14h00am Tweeling Town Hall	SCM Unit (016) 970 8600/  Technical Enquiries: Mrs Morakane Moletsane 078 778 8495

**Requirements:** - Valid company tax clearance certificate must be attached, or pin supplied. Certified ID copy. - Certified copy of the company registration certificate/founding certificate must be attached. – Copy of CSD registration report must be attached. – Municipal rates and taxes statement or your landlord stamp with municipal rates and taxes of the landlord or lease agreement with landlord municipality rates and taxes or affidavit with landlord municipality rates and taxes.– All compulsory/supplementary forms contained in the bid documents must be completed and signed (MBD 1,4, 6.1, 8 &9 amongst others) — valid COIDA certificate – Banking rating and latest Annual Financial Statement.—Company profile—letter of Authority and Join Venture Agreement if applicable.

**Please note:** - **There is compulsory site briefing session.** - Sealed bid should clearly indicate the bid in which you bid for. -Bid document will be obtainable as from **Wednesday, 13<sup>th</sup> November 2024, from Supply Chain Management Unit, Fezile Dabi District Municipality offices in Sasolburg.**-No bids will be accepted from persons in the service of the state. No telegraphic, telefax and late bids will be accepted. - Municipality is not bound to accept the lowest bid.- Failure to comply with the above mentioned conditions may invalidate your bid.- Bids will remain valid for 90 days. –All quotations will be evaluated in terms of preferential points system as prescribed in the preferential procurement policy regulation of 2022.

\_\_\_\_\_  
Mr S Thomas

Municipal Manager

## **BID NO: 011/2024-25**

### **T1.2 TENDER DATA**

#### **T1.2.1 INSTRUCTIONS TO TENDERERS**

##### **1. ISSUE OF DOCUMENTS**

Tender documents will be obtainable at **Fezile Dabi District Municipality, John Vorster Road, Sasolburg, 1947 (Tel: 016 970 8600)** on the date as advertised. Cash or direct deposit with a proof deposit shall be accepted.

##### **2. TENDER DOCUMENTS**

Tenderers shall satisfy themselves that the documents are complete and conform to the index. Should any pages be missing or anything concerning the documents not be clear, the Tenderer shall immediately notify the Engineer, in order to have any discrepancy solved, because neither the Employer nor the Engineer will assume any responsibility for any discrepancies not rectified during the tendering period.

##### **3. TENDER PROCEDURE**

Tenders, completed in full, shall be submitted with all the signatures entered where required.

Tenders are to be entered on the Form of Tender, which shall not be detached from this document.

The complete document, priced and completed in full, with any covering letters, specifications, drawings and data to be supplied by the Tenderer, is to be sealed, marked "**BID NO: 011/2024-25 Refurbishment of the Sewer Pump Station in Tweeling /Mafahlaneng**" and reach the **Fezile Dabi District Municipality Offices in Sasolburg** before **12h00** on the date as advertised.

##### **4. RETURNABLE DOCUMENTS**

All returnable documents included in these documents shall be completed in full by the Tenderer and signed where required. The complete list of returnable documents is tabled in section T2.1 of the tender document.

Should insufficient space be provided in any returnable document, the Tenderer shall include additional annexures of the same format as the document. Should all returnable documents not be completed in full, the tender shall be rendered incomplete and may not be taken into consideration.

##### **5. CLARIFICATION MEETING**

The clarification meeting is **compulsory**.

The Consulting Engineer will meet prospective tenderers at the venue and on the date as advertised to show prospective tenderers the site. Prospective tenderers shall arrange their own transport.

##### **6. TENDER PRICES**

Tenderers shall allow in the tender prices for all labour, material, plant and all other matters required to execute and complete the contract in accordance with the contract documents.

## **7. VALUE ADDED TAX**

All unit rates and lump sum prices entered in the Schedule of Quantities shall *exclude* Value Added Tax.

Provision has however been made for the addition of Value Added Tax to the extended total in the Summary of the Schedule of Quantities. This figure including VAT shall be carried over to the Form of Tender.

## **8. "RATE ONLY" ITEMS**

"Rate only" items shall also be priced by the Tenderer but shall not be included in the extended total.

Where "Rate only" items tend to be excessively high or inappropriate, the Employer shall have the right to notify the Tenderer to afford him the opportunity to rectify these rates.

## **9. ALTERNATIVE TENDERS**

### **9.1 ALTERNATIVE SYSTEM PROPOSAL**

Alternative tenders will not be accepted.

### **9.2 ALTERNATIVE ITEMS PROPOSAL**

Tenderers shall determine their rates strictly in accordance with the conditions, descriptions and clauses as described in the tender document, without change. Those to be altered are to be scheduled in the **Alterations by Tenderers**.

## **10. RESOLUTION OF AUTHORITY**

If the tender is submitted by a company, it shall be signed by a person authorized to do so. A resolution of authorization, by the directors of the company, shall be submitted with the tender.

If the tender is submitted by a consortium of two or more persons or companies for firms, the following shall be attached:

- a) The original or certified copy of the agreement setting out the composition of the consortium, the conditions on which it operates as well as the period of validity of the consortium.
- b) A certificate signed by each member of all participating parties, companies or firms, affording power of attorney to a nominated person.

## **11. VALIDITY OF TENDER**

The tender shall be valid for the period as stated in the Annexure to the Tenderer.

## **12. TELEGRAPHIC TENDERS**

Telegraphic tenders will **NOT** be considered.

### **13. WITHDRAWAL OF A TENDER**

Any Tenderer has the right to change or withdraw a tender after submission providing he applies for withdrawal before the closing date and time.

The original tender with the written changes on it will be accepted as the final submission.

After the official closing date and time, a tender will not be allowed to be withdrawn or changed.

Should the successful Tenderer withdraw his tender after the advertised closing date, or after notification that his tender has been accepted, fail to sign the contract in accordance with the Form of tender within a period of 14 days, or an extended time agreed, he will be held responsible for all additional costs incurred in re-advertising the contract and/or the difference in cost incurred by appointing a less favorable Tenderer.

### **14. INCOMPLETE TENDERS**

Any tender that does not comply with the conditions of tender will be considered incomplete and will be liable for rejection.

### **15. TENDER EXPENSES**

The Employer will not be held liable for any expenses incurred in preparing and lodging tenders.

### **16. ALTERATION OF TENDER BY EMPLOYER**

#### **16.1 ARITHMETICAL ERRORS**

The responsive tender offers shall be checked for arithmetical errors, which will be corrected in the following manner (Per Government Gazette, 9 June 2004, No 26427):

- Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.
- For this schedule / bill of quantities, where there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate will be corrected.

Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if a bill of quantities applies) to achieve the tendered total of the prices.

#### **16.2 INAPPROPRIATE TENDER PRICES**

Should any price or rate seem inappropriate or unacceptable to the Employer, the Employer shall require of the Tenderer the following:

To justify the specific price or rate by doing a financial breakdown of the complete rate, and/or to change the rate or price.

Should a Tenderer refuse to alter any price or rate, the Employer may disqualify the Tender, after 7 days written notification thereof.

## **17. ADDITIONAL INFORMATION REQUIRED**

The Tenderer shall include with his tender all information, data, design calculations and drawings as may be stipulated in the specification and annexures.

The Employer reserves the right to demand more information where such information as submitted is considered inadequate. The Tenderer shall supply the required supplementary information within 7 days after notification.

All costs incurred during the design of proposals and compilation of the required information, shall be included in the tendered rates.

## **18. OWNERSHIP OF TENDER DOCUMENTS**

All persons in possession of the Tender Documents whether Tenders are submitted or not, shall regard the contents of the Documents as private and confidential.

No part of any Document may be reproduced or copied without the prior consent of the Consulting Engineers, FLAGG Consulting Engineers (Pty) Ltd.

## **19. TIME OF COMPLETION**

The time of completion shall be determined by the tenderer; taking into account all factors, which may influence the construction period. This shall be entered in the appropriate position in the **Summary of Tender** as well as the **Contract data page 34 of this Tender**.

## **20. ACCEPTANCE AND REJECTION OF TENDERS**

Acceptance of a tender does not imply that the program, construction method or any other item in detail will be accepted in full. Final drawings for final approval in accordance with the General Conditions of Contract shall be submitted, should that be a requirement of the tender.

Tenders may be rejected if additional requirements are not presented as requested in the tender documents, or if the tender has been qualified, other than indicated in "**Alterations by Tenderer**", or if any absurdities is encountered in the form of tender, annexures or bill of quantities.

The Employer is not compelled to accept the lowest or any tender.

## **21. REVENUE STAMPS**

Any stamp duties related to the contract shall be for the account of the Tenderer.

## **22. SECURITY**

It is a provision of the contract that the Contractor shall provide the Employer with security by way of a guarantee for the due and faithful fulfillment of the contract by the Contractor. The time to deliver the guarantee and the liability of the guarantee are stated in the Contract Data (T2.2.11).

## **23. VARIATIONS BY THE TENDERER**

Should the Tenderer wish to vary any terms of the General Conditions of Contract or Specification, he shall do so in Annexure 1 attached to this document. In the absence of any entries in this Annexure, the tender will be treated as a tender complying in every respect with the General Conditions and Specification. Preference will be given, other things being generally equal to tenders entailing a minimum of alterations.

## **24. AMBIGUITY**

In the event of there being any doubt about any matter or of further information being required, Tenderers are invited to obtain such further information from the Consulting Engineers.

## **25. FOREIGN TENDERERS**

Tenderers not resident in the Republic of South Africa will supply the name and address of their official agent in the Republic. Any Tender failing to comply with this condition will be rejected.

## **26. DISQUALIFICATION AS THE RESULT OF UNJUST INFLUENCING AND CANVASSING**

Shall there be any evidence of any unjust influencing or canvassing by the Tenderer his tender will be liable to rejection.

## **27. "TIME IS OF THE ESSENCE" (MORA)**

Time is an essential element of the Contract.

## **28. REDUCTION OF WORK**

The Employer reserves the right to withdraw any section or item in the bill of quantities in which case the Contractor will have no claim in this respect.

## **29. GENERAL CONDITIONS**

### **29.1.1 The following general conditions are applicable to this tender:**

- i) The Main Contractor must appoint a Community Liaison Officer (CLO) for the entire duration of the Project; the CLO will be identified by the Mafube Local Municipality.
- ii) The Main Contractor may import only key personnel for the execution of the project. All general labor and subcontractors must be locally based within the FDDM Area.
- iii) A Tender / Quotation submitted by a Company which is in arrears of payment for services provided by the Council, will not be considered.
- iv) Failures to provide and attach to the Tender / Quotation the information required may result in a loss of points or disqualification.

**PART A  
INVITATION TO BID**

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE FEZILE DABI DISTRICT MUNICIPALITY</b>					
BID NUMBER:	011/2024-25	CLOSING DATE:	26 <sup>th</sup> NOVEMBER 2024	CLOSING TIME:	12H00
DESCRIPTION	REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING /MAFAHLANENG.				

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX  
SITUATED AT (STREET ADDRESS

<b>JOHN VORSTER ROAD</b>
<b>SASOLBURG</b>
<b>1947</b>

<b>SUPPLIER INFORMATION</b>			
NAME OF BIDDER			
POSTAL ADDRESS			
STREET ADDRESS			
TELEPHONE NUMBER	CODE	NUMBER	
CELLPHONE NUMBER			
FACSIMILE NUMBER	CODE	NUMBER	
E-MAIL ADDRESS			
VAT REGISTRATION NUMBER			
TAX COMPLIANCE STATUS	TCS PIN:	OR	CSD No:
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes <input type="checkbox"/> No	B-BBEE STATUS LEVEL SWORN AFFIDAVIT	<input type="checkbox"/> Yes <input type="checkbox"/> No

**[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]**

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3 ]
TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE	R
SIGNATURE OF BIDDER	.....	DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED			

<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:</b>		<b>TECHNICAL INFORMATION MAY BE DIRECTED TO:</b>	
DEPARTMENT	FINANCE	CONTACT PERSON	M MOLETSANE
CONTACT PERSON	M MOEKETSI	TELEPHONE NUMBER	078 778 8495
TELEPHONE NUMBER	016 970 8709	FACSIMILE NUMBER	
FACSIMILE NUMBER		E-MAIL ADDRESS	morakanemm@gmail.com
E-MAIL ADDRESS	mariam@feziledabi.gov.za		

## PART B

### TERMS AND CONDITIONS FOR BIDDING

<b>1. BID SUBMISSION:</b>
<p>1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.</p> <p>1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED)</b></p> <p>1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.</p>
<b>2. TAX COMPLIANCE REQUIREMENTS</b>
<p>2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.</p> <p>2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.</p> <p>2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE <a href="http://WWW.SARS.GOV.ZA">WWW.SARS.GOV.ZA</a>.</p> <p>2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.</p> <p>2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.</p> <p>2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.</p> <p>2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.</p>
<b>3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS</b>
<p>3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? <span style="float: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</span></p> <p>3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA? <span style="float: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</span></p> <p>3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? <span style="float: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</span></p> <p>3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? <span style="float: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</span></p> <p>3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? <span style="float: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</span></p> <p><b>IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.</b></p>

**NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.  
NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.**

SIGNATURE OF BIDDER: .....

CAPACITY UNDER WHICH THIS BID IS SIGNED: .....

DATE: .....

# FEZILE DABI



DISTRICT MUNICIPALITY

John Vorster Road  
SASOLBURG

1947

P O Box 10  
SASOLBURG  
1947

Tel: 016 970 8600  
Fax:016 970 8762

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Enquiries: Supply Chain Management Unit

## T1.2.3

### **MUNICIPAL SERVICES, RATES AND TAXES CLEARANCE CERTIFICATE FOR SUPPLY CHAIN MANAGEMENT PURPOSE**

The purpose of this form is to obtain prove that municipal services, rates and taxes of the service provider are not more than three months in arrears with the relevant municipality.

Municipal rates and taxes statement or your landlord stamp with municipal rates and taxes of the landlord or lease agreement with landlord municipality rates and taxes or affidavit with landlord municipality rates and taxes in the municipal area where the service provider conduct his / her business.

**This form is to be completed only if the service provider's rates and taxes are not in arrears for more than three months.**

**PART A** – to be completed by the relevant municipality in the case where the service provider is the registered owner of the site / owner pays for municipal services / tenant pays for municipal services

**OR**

**PART B** – to be completed by the landlord in the case where the service provider is renting the premises / rental paid by tenant include municipal services.

<b>PART A (TO BE COMPLETED BY THE RELEVANT MUNICIPALITY)</b>	
Name of the Municipality:	
Property Physical Address:	
Registered Name:	
Official's Name: _____	Municipality Stamp Here
Signature: _____	
Date: _____	

**Please tick whether in arrears or up-to-date**

Rates and taxes: Up-to-date / in arrears for more than 3 months

Water: Up-to-date / in arrears for more than 3 months

Electricity: Up-to-date / in arrears for more than 3 months

Refuse: Up-to-date / in arrears for more than 3 months

Other services: Up-to-date / in arrears for more than 3 months

**PART B (TO BE COMPLETED BY THE LANDLORD)**

Name of the Landlord:

Property Physical Address:

Landlord Signature:

Date: \_\_\_\_\_

**Landlord's business stamp here**

Or an Affidavit from SAPS

(in the event the landlord does not  
have a business stamp)

**Please tick whether up-to-date or in arrears**

Rental: Up-to-date / in arrears for more than 3 months

Municipal services: Up-to-date / in arrears for more than 3 months

**CENTRAL SUPPLIER DATABASE (CSD) OF NATIONAL GOVERNMENT**

***Tax Clearance Certificate Requirements***

**SARS:** Service providers are not required to submit an *Original* Tax Clearance Certificate; they must, ensure that are registered on the **Central Supplier Database (CSD) of National Government** and must submit, with their proposal, proof of registration with CSD.

It is a condition of bid that the taxes of the successful bidder must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

The CSD will confirm the validation response in regard to SARS information; and the Tax Clearance Status / Certificate Verification status. The service provider may submit their printable Tax Clearance Certificate in addition to the above CSD.

Failure to submit the proof of registration with CSD will result in the invalidation of the bid.

**PLEASE NOTE THAT THE COMMISSIONER FOR THE SOUTH AFRICAN REVENUE SERVICE (SARS) WILL NOT EXERCISE HIS DISCRETIONARY POWERS IN FAVOUR OF ANY PERSON WITH REGARD TO ANY INTEREST, PENALTIES AND / OR ADDITIONAL TAX LEVIABLE DUE TO THE LATE- OR UNDERPAYMENT OF TAXES, DUTIES OR LEVIES OR THE RENDITION RETURNS BY ANY PERSON AS A RESULT OF ANY SYSTEM NOT BEING YEAR 2000 COMPLIANT.**

[MBD]

**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. 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 and/or take an oath declaring his/her interest.

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

3.1 Full Name: .....

3.2 Identity Number: .....

3.3 Company Registration Number: .....

3.4 Tax Reference Number: .....

3.5 VAT Registration Number: .....

3.6 Are you presently in the service of the state\* **YES / NO**

3.6.1 If so, furnish particulars.  
.....  
.....

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

3.7.1 If so, furnish particulars  
.....

3.8 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?

\_\_\_\_\_

\* 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;
- (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 a provincial legislature.

3.8.1 If so, furnish particulars.

.....  
.....

3.9 Are you, aware of any relationship (family, friend, other) between a 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**

3.9.1 If so, furnish particulars

.....  
.....

3.10 Are any of the company's directors, managers, principal shareholders or stakeholders in service of the state?

**YES / NO**

3.10.1 If so, furnish particulars.

.....  
.....

3.11 Are any spouse, child or parent of the company's directors, managers, principal shareholders or stakeholders in service of the state?

**YES / NO**

3.11.1 If so, furnish particulars.

.....  
.....

3.10 Are any of the company's directors, managers, principal shareholders or stakeholders in service of the state?

**YES / NO**

3.10.1 If so, furnish particulars.

.....  
.....

3.12 Are any spouse, child or parent of the company's directors, managers, principal shareholders or stakeholders in service of the state?

**YES / NO**

3.11.1 If so, furnish particulars.

.....

**CERTIFICATION**

**I, THE UNDERSIGNED (NAME) .....**

**CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.**

**I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE**

**FALSE.**

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder

**T.1.2.6 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 **80/20** preference point system.

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.

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
- (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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ Ps = 80 \left( 1 - \frac{Pt - Pmin}{Pmin} \right) & \mathbf{or} & Ps = 90 \left( 1 - \frac{Pt - Pmin}{Pmin} \right) \end{array}$$

Where

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

### 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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ Ps = 80 \left( 1 + \frac{Pt - Pmax}{Pmax} \right) & \mathbf{or} & Ps = 90 \left( 1 + \frac{Pt - Pmax}{Pmax} \right) \end{array}$$

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 3 (1) an organ of state must, in the tender documents, stipulate the specific goal in the invitation to submit the tender for which a point may be awarded, and the number of points that will be awarded to each goal, and proof of the claim for such goal.

**4.1.1 Youth ownership**

Youth Ownership of the company/enterprise, if a portion of the 20/10 points is allocated to promote this goal, the following ownership percentage categories should be used. **The points per percentage category will be determined in the tender specification document.**

<b>Youth Ownership of Company</b> (Youth is 35 years and younger)	<b>Points</b>
81 – 100% Youth Owned	5
61 – 80% Youth Owned	4
41 – 60% Youth Owned	3
21 – 40% Youth Owned	2
1 – 20% Youth Owned	1
0% Youth Owned	0

**4.1.2 Black women owned enterprises.**

Black women owned of the company/enterprise, if a portion of the 20/10 points is allocated to promote this goal, the following ownership percentage categories should be used. **The points per percentage category will be determined in the tender specification document.**

<b>Black Women Owned Enterprises</b>	<b>Points</b>
51 – 100% Black Women Owned	5
50 – 80% Black women Owned	3
Less than 50% Black Women Owned	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.)*

50% (10 out of 20 and 5 out of 10) of Specific goals points, will be allocated based on a geographical area of a supplier as follows

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Within the boundaries of Fezile Dabi District		10		
Within the boundaries of the Free State		5		
Outside of the boundaries of the Free State		0		

**5. SPECIFIC GOALS OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 3.1**

5.1 Specific goals: ..... = ..... (maximum of 10 or 20 points)  
 (Points claimed in respect of paragraph 5.1 must be in accordance with the table reflected in paragraph 3.1 and must be substantiated by submitting the required documents.)

**6. DECLARATION WITH REGARD TO COMPANY/FIRM**

- 6.1. Name of company/firm:.....
- 6.2. VAT registration number:.....
- 6.3. Company registration number:.....

**6.4. TYPE OF COMPANY/ FIRM**

- Partnership/Joint Venture / Consortium
  - One person business/sole propriety
  - Close corporation
  - Company
  - (Pty) Limited
- [TICK APPLICABLE BOX]

**6.5. DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....

.....

.....

.....

6.6. COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

6.7. MUNICIPAL INFORMATION

**Municipality where business is situated:** .....

**Registered Account Number:** .....

**Stand Number:**.....

6.8. Total number of years the company/firm has been in business:.....

6.9. I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we 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 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the bidding process;
  - (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 bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

WITNESSES

1. ....

2. ....

.....  
SIGNATURE(S) OF BIDDERS(S)

DATE: .....

ADDRESS .....

.....

.....

**DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS**

This Municipal Bidding Document (MBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

**1. General Conditions**

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and Specific Goals.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

**The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial\\_development/ip.jsp](http://www.thedti.gov.za/industrial_development/ip.jsp) at no cost.**

1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;

**2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
_____	_____ %
_____	_____ %
_____	_____ %

**3. Does any portion of the goods or services offered have any imported content?**

*(Tick applicable box)*

YES		NO	
-----	--	----	--

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on [www.reservebank.co.za](http://www.reservebank.co.za)

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

<b>Currency</b>	<b>Rates of exchange</b>
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

**4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.**

**LOCAL CONTENT DECLARATION**  
**(REFER TO ANNEX B OF SATS 1286:2011)**

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

**IN RESPECT OF BID NO.** .....

**ISSUED BY:** (Procurement Authority / Name of Institution):.....NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on [http://www.thdti.gov.za/industrial\\_development/ip.jsp](http://www.thdti.gov.za/industrial_development/ip.jsp). Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ..... (full names),  
do hereby declare, in my capacity as .....  
of .....(name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
  - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

**If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.**

**The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.**

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPFA), 2000 (Act No. 5 of 2000).

**SIGNATURE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**WITNESS No. 1** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**WITNESS No. 2** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**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.**

<b>Item</b>	<b>Question</b>	<b>Yes</b>	<b>No</b>
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>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <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>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>
4.2.1	If so, furnish particulars:		

4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
<b>Item</b>	<b>Question</b>	<b>Yes</b>	<b>No</b>
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**

**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.

**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.
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.

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

T1.2.11

**FUNCTIONALITY SUMMARY /EVALUATION CRITERIA**

Functionality	Points Allocation	Total
<p><b><u>EXPERIENCE IN WATER RETAINING STRUCTURES (ELECTRICAL AND MECHANICAL WORKS):</u></b>                      The contractor must provide proof of work done of Mechanical and Electrical water retaining structures.  <b>5 Completion certificate 5 points each.</b></p>	25	25
<p><b><u>PERSONAL CAPACITY AND RESOURCES</u></b> (at least have 1 year experience in water retaining structures (ELECTRICAL AND MECHANICAL WORKS))</p> <p>-1 x contract manager 7+ more years + B-tech =NQF 7 (Engineering field) 20 points</p> <p>-1 x Site Agent min. 5 years' experience + National Diploma = NQF 5 (Engineering field) 15 points</p> <p>-1 x Certified First Aider + 1 year experience 5 points</p> <p>-Additional labour force 5 + more 5 points</p> <p><b><u>All qualification certificates MUST be certified. (Certification not older than three (3) months from the bid closing date, failure to which the bidder will not score any points). Curriculum Vitae to be attached showing ONLY the relevant experience and number of years of experience</u></b></p>	20 15 5	40
<p><b><u>FINANCIAL VIABILITY</u></b>                      Provide bank rating letter:                      A to C (Banking details to be provided) 10 points                      D to F (Banking details to be provided) 5 points</p>	10 5	10
<p><b><u>QUALITY OF WORK</u></b>                      Require 5 x traceable stamped letters from previous clients that work has been completed in time and of a good quality (5 points per letter.)  <b>*(Letters must talk to the completion certificates above)</b></p>	25	25
<b>Maximum possible score for quality</b>	<b>100</b>	
<p><b>*Should the prospective Bidder/Tenderer score less than 70% on Functionality, the bidder will not be evaluated further.</b></p>		
<p>NQF - Is the National Qualification Framework in South African Qualification Authority which can be contacted at <a href="http://www.saqa.org.za">www.saqa.org.za</a></p>		

**NB: Companies should obtain at least 70% for functionality/threshold to be further evaluated. NB: Bidders are required to submit supporting documents to score full points.**

**VOLUME 2**  
**RETURNABLE DOCUMENTS**

**FEZILE DABI DISTRICT MUNICIPALITY**

**REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING/MAFAHLANENG**

**BID NO: 011/2024-25**

**PART T2: RETURNABLE DOCUMENTS**

<b>T2.1 LIST OF RETURNABLE DOCUMENTS</b>	
T2.1.1	Valid Tax Clearance Certificate and CSD Registration Report/ Support Number
T2.1.2	Certified copies Company Founding Statement / Registration Certificate of the Enterprise showing composition of the company.
	ID Copies
T2.1.3	Company Profile
T2.1.4	Companies Letter of Good Standing (COIDA)
T2.1.5	Authority of Signatory Resolution
T2.1.6	CIDB Registration Certificate
T2.1.7	Proof of latest Municipal Payment Statement (rates and taxes) Reflecting name of company/Letter from landlord confirming
T2.1.8	Joint Venture Document if applicable
T2.1.9	Health and Safety Plan method statement
T2.1.10	Technical Approach & Methodology <i>and</i> Work plan
T2.1.11	All compulsory/ supplementary forms must be fully completed and signed that is (MBD 1, 2, 4, 6.1,6,2, 8 and 9).
	Bank Rating and latest Annual Financial Statement
The Tenderer must complete all relevant / required documents below in full and ensure they are properly signed and returned as part of the Tender offer:	
C1.1	Form of Offer (Pg 34 of this Tender)
C2.2	Schedule / Bill of Quantities (Pg 40 to 44 of this Tender)
T2.2	Returnable Schedules (Pg 45 to 57 of this Tender)

**PART C1: AGREEMENT AND CONTRACT DATA**

**C1.1 FORM OF OFFER AND ACCEPTANCE**

**(Agreement)**

**C1.1.1 Offer**

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

**REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING / MAF AHLANENG.**

The Tenderer, identified in the Offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, and by submitting this Offer has accepted the Conditions of Tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

**THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS**

.....  
..... Rand (in words);  
R ..... (in figures),

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

**Signature(s)** .....  
**Name(s)** .....  
**Capacity** .....  
**for the Tenderer** .....  
(Name and address of organization)

**Name & signature of**  
**witness** .....  
**Date**



**C1.1.3 Schedule of Deviations**

Notes:

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

<b>1</b>	<b>Subject</b>	.....
	Details	.....
<b>2</b>	<b>Subject</b>	.....
	Details	.....
<b>3</b>	<b>Subject</b>	.....
	Details	.....
<b>4</b>	<b>Subject</b>	.....
	Details	.....
<b>5</b>	<b>Subject</b>	.....
	Details	.....
<b>6</b>	<b>Subject</b>	.....
	Details	.....

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or change to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

**FOR THE TENDERER:**

**Signature(s)** .....  
**Name(s)** .....  
**Capacity** .....  
.....  
(Name and address of organization)

**Name & signature of witness** .....  
**Date**

**For the Employer:**

**Signature(s)** .....  
**Name(s)** .....  
**Capacity** .....  
.....  
(Name and address of organization)

**Name & signature of Witness** .....  
**Date**

**C1.2.4: CONTRACT DATA FOR: REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING / MAF AHLANENG**

**PART 1 : DATA PROVIDED BY THE EMPLOYER**

**CONDITIONS OF CONTRACT**

The General Conditions of Contract (GCC) for Construction Works, Third Edition (2015), published by the South African Institution of Civil Engineering, is applicable to this Contract.

**CONTRACT SPECIFIC DATA**

The following contract specific data, referring to the GCC, are applicable to this Contract :

**Compulsory Data**

Clause 1.1.1.13

**The Defects Liability Period is 12 months from the date of the Certificate of Completion.**

Clause 1.1.1.15 :

The name of the Employer is **Fezile Dabi District Municipality.**

Clause 1.2.1.2 :

The address of the Employer is **Fezile Dabi District Municipality, P O Box 10, Sasolburg, 1947**

Clause 1.1.1.16 :

The name of the Engineer is **FLAGG Consulting Engineers (Pty) Ltd.**

Clause 1.2.1.2 :

The address of the Engineers is **6 Mark Street Frankfort, P O Box 864, Frankfort, 9830.**

Email –**frankfort@flaggconsulting.co.za**

Clause 1.1.1.26 :

The Pricing Strategy is **Re-measurement Contract.**

Clause 5.3.1 :

The documentation required before commencement with Works execution are :

Health and Safety Plan (refer to clause 4.3)

Initial programme (refer to clause 5.6)

Security (refer to clause 6.2)

Insurance (refer to clause 8.6)

Clause 5.3.2 :

The time to **submit** the documentation required **before commencement** with Works execution is **28** days.

Clause 5.8.1 :

The non-working days are **Sundays.**

The **special** non-working days are :

1. New Year's Day, Human Rights Day, Good Friday, Family Day, Freedom Day, Workers' Day, Youth Day, National Woman's Day, Heritage Day, Reconciliation Day, Christmas Day, Day of Goodwill. These days will also be excluded from time calculations.
2. The year break commences on **14 December 2024** and ends on **07 January 2025**

**C1.2.4: CONTRACT DATA FOR: CONTRACT DATA FOR: REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING / MAF AHLANENG**

Clause 5.13.1 :

The penalty for failing to complete the Works is **R3000.00** per day.

Clause 5.16.3 :

The latent defect period is 10 years.

Clause 6.10.1.5 :

The percentage advance on materials not yet built into the Permanent Works is max **80% of invoice price**.

Clause 6.10.3 :

The limit of retention money is **10%**.

Clause 8.6.1.1.2 :

No plant or materials shall be supplied by the Employer.

Clause 8.6.1.1.3 :

The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is **R250 000,00**.

Clause 8.6.1.3 :

The limit of indemnity for liability insurance is **R2 000 000.00**.

Clause 10.5.3 :

The number of Adjudication Board Members to be appointed is 1.

**PART 2 : DATA PROVIDED BY THE CONTRACTOR**

Clause 1.1.1.9 :

The name of the Contractor is .....

Clause 1.2.1.2 :

The Address of the Contractor is .....

Clause 1.1.1.14 :

The time for achieving Practical Completion is .....

Clause 6.2.1 :

The security to be provided by the Contractor shall be one of the following :

**TYPE OF SECURITY (inclusive of VAT)**

**Contractor's Choice  
Indicate "yes" or "no"**

Cash deposit of 10% of the Contract Sum

Performance guarantee of 10% of the Contract Sum

Retention of 10% of the value of the Works

Cash deposit of 5% of the Contract Sum plus retention of 5% of the value of the Works

Performance guarantee of 5% of the Contract Sum plus retention of 5% of the value of the Works

## **PART C2: SCHEDULE OF QUANTITIES**

### **C2.2 SCHEDULE OF QUANTITIES**

The schedule of quantities forms the basis on which the tenderer arrives at the offered total in the Form of Offer. By signing the Acceptance of the Form of Offer and Acceptance, the Employer accepts the Tenderers offer, and the Schedule of Quantities is then included in the Contract Agreement between the parties.

#### **C2.2.1 Preamble to Schedule of Quantities**

- 1.1.1 The General Conditions of Contract, the Special Conditions of Contract (if any), the Specifications (including the Project Specifications) and the drawings are to be read in conjunction with the Schedule of Quantities.
- 1.1.2
- a) The schedule comprises items covering the Contractor's profit and costs of general liabilities and of the supply and installation of permanent apparatus.
  - c) The Tenderer is at liberty to insert a rate of his own choosing for each item in the schedule and his attention is drawn to the fact that the Contractor has the right, under various circumstances, to payment for additional works carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates inserted in the schedule by the Contractor.
- 1.1.3 Descriptions in the Schedule of Quantities are abbreviated.
- 1.1.4 The prices and rates to be inserted in the Schedule of Quantities are to be the full inclusive prices to the Employer for apparatus/work described under the several items. Such prices shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the tender is based.
- 1.1.5 A price or rate is to be entered against each item in the Schedule of Quantities, whether the quantities are stated or not. An item against which no price is entered will be considered to be covered by the other prices or rates in the schedule.
- 1.1.6 The contractor will be paid an amount for the item of work in the schedule of quantities which is the rate for the work multiplied by the quantity completed.

1.1.7 The units of measurement described in the Bill of Quantities are metric units. Abbreviations used in the Bill of Quantities are as follows :

%	=	percent
h	=	hour
ha	=	hectare
kg	=	kilogram
kl	=	kilolitre
km	=	kilometer
km-pass	=	kilometer-pass
kPa	=	kilopascal
kW	=	kilowatt
l	=	liter
m	=	meter
mm	=	millimeter
m <sup>2</sup>	=	square meter
m <sup>2</sup> -pass	=	square meter-pass
m <sup>3</sup>	=	cubic meter
m <sup>3</sup> -km	=	cubic meter-kilometer
MN	=	meganewton
MN.m	=	meganewton-meter
Mpa	=	megapascal
No.	=	number
Prov Sum	=	Provisional sum
PC sum	=	Prime Cost sum
R/only	=	Rate only
sum	=	lump sum
t	=	ton (1000 kg)
W/day	=	Workday

ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>1</b>		<b>SECTION 1: PRELIMINARY AND GENERAL</b>				
<b>1.1</b>	<b>SABS 1200 A</b>	<b>FIXED COST ITEMS</b>				
1.1.1	8.3.1	Contractual Requirements	Sum	1.00		
	SABS 1200 AB	Establish facilities on site				
	8.3.2.1	a) Facilities for Engineer				
1.1.2	PS 7	Site office, conference room, car port, toilet facilities and office furniture	Prov Sum	1.00	5,000.00	5,000.00
1.1.3		One Contract Notice Board	Sum	1.00		
	8.3.2.2	b) Facilities for Contractor				
1.1.4		Offices and stores, workshops, housing, ablution- and latrine facilities, plant and tools	Sum	1.00		
1.1.5		Water supply, electrical power, reticulation of water and access to site	Sum	1.00		
1.1.6	PS 10	Conformity with RDP requirements	Sum	1.00		
1.1.7	8.3.3	Additional Fixed Cost liabilities (particulars to be supplied)				
		i) Health and Safety	Sum	1.00		
		ii) Security on site for duration of project	Sum	1.00		
1.1.8	8.3.4	Removal of site facilities	Sum	1.00		
<b>1.2</b>	<b>8.4</b>	<b>TIME RELATED ITEMS</b>				
1.2.1	8.4.1	Contractual Requirements	Sum	1.00		
	8.4.2	Operate and maintain facilities on site				
	8.4.2.1	a) Facilities for Engineer for duration of construction (SABS 1200 AB)				
	8.4.2.2	b) Facilities for Contractor for duration of construction	Sum	1.00		
1.2.2		Resident Engineer: Cell phone for site purposes	Prov Sum	1.00	5,000.00	5,000.00
1.2.3		Offices and stores, workshops, housing, ablution- and latrine facilities, plant and equipment	Sum	1.00		
1.2.4		Water supply, electrical power, reticulation of water and access to site	Sum	1.00		
1.2.5	8.4.3	Construction Supervision for the duration of the contract	Sum	1.00		
1.2.6		Allowance for CLO	Prov Sum	1.00	15,000.00	15,000.00
<b>1.3</b>		<b>TEMPORARY WORK</b>				
1.3.1	8.8.1	Construction and maintenance of all access roads and work for the duration of the contract	Sum	1.00		
<b>1.4</b>		<b>CONTROL TESTING</b>				
1.4.1		Preliminary Sum allowed for laboratory tests by an independent laboratory when required by the Engineer	Prov Sum	1.00	10,000.00	10,000.00
1.4.2		Percentage add on to Item 1.5.1 for overheads, administration and profit	%	10,000.00		
<b>TOTAL SECTION 1</b>						

ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>2</b>		<b>SECTION 2: STRUCTURAL AND CIVIL WORKS</b>				
<b>2.1</b>		<b>WINDOWS</b>				
		Installation of glass to all broken windows as per Engineer instruction specification.				
	PSW 15.1.15	Windows				
2.1.1		C4/G4	No	4.00		
<b>2.2</b>		<b>PUMPSTATION CLEANING</b>				
2.2.1		Cleaning of pump station internally and externally to the satisfaction of the Engineer as per instruction.	Sum	1.00		
<b>2.3</b>		<b>DEALING WITH SEWER</b>				
2.3.1		Dealing with sewer for the duration of the project including de-sludging of the inlet works, wet sump and dry sump	Sum	1.00		
<b>TOTAL SECTION 2</b>						
<b>3</b>		<b>SECTION 3: SITE WORKS AND GENERAL REFURBISHMENT</b>				
<b>3.1</b>		<b>SECURITY FENCING</b>				
3.1.1	PSVA 2.11	Fabricate and install new security gate 4,05m x 2,05m (vehicles)	No	-		
3.1.2	PSVA 2.11	Fabricate and install new security gate 1m x 2,05m (pedestrians)	No	-		
<b>3.2</b>		<b>PALISADE CONCRETE FENCE</b>				
3.2.1		Supply all material, labour, etc. and construct a 2,0m high security wall palisade concrete fence of approved design	m	5.00		
<b>3.3</b>		<b>DEWATERING OF EXCAVATIONS</b>				
3.3.1		a) Pumping of ground water on daily basis FOR duration of project	Sum	1.00		
<b>TOTAL SECTION 3</b>						
<b>4</b>		<b>SECTION 4: MECHANICAL WORKS FOR SEWAGE PUMPS</b>				
		For the supply and delivery to Tweeling, F.S. of the following pumping plant all as described in more detail in Part C3 Section C3.1.6, Clauses C3.1.6.1 to 3.1.6.10				
<b>4.1</b>		<b>RAW SEWAGE PUMPS - TWEELING PUMP STATION</b>				
<b>4.2</b>		<b>SUMP DRAINAGE PUMP IN PUMP STATION</b>				
4.2.1		One electrical submersible drainage pump including pipework as in the specification clause C3.1.6.14	No	1.00		
4.2.2		Spares and accessories for pumping plant supplied under Item 5.5.1 and as detailed on the attached list	Prov Sum	1.00	15,000.00	15,000.00
<b>TOTAL SECTION 4</b>						

ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>5</b>		<b>SECTION 5: ELECTRICAL WORKS INCLUDING SWITCHGEAR TO PUMPING PLANT AND GENERAL WIRING</b>				
5.1		For the supply, delivery to Tweeling, handling, loading, offloading, transporting to site, storing until erection, erecting, laying cables and fixing same to walls, making of cable ends at terminal boxes, isolating switches, starters, and motors, etc. of the following equipment all as specified in greater detail in the specification clause C3.1.6.13 to C3.1.6.13.7				
<b>5.2</b>		<b>CABLING</b>				
5.2.1		Cabling between control panel and motors including making off and connection ....m of ....mm2 PVCSWA cable at R.../m at pump station	Sum	1.00		
<b>5.3</b>		<b>SMALL POWER CIRCUIT (C3.1.6.13.5)</b>				
5.3.1		Connecting small power circuits into the new control board at:				
<b>5.4</b>		<b>LEVEL CONTROL SYSTEM</b>				
		Supply, lay and connect pilot cable ( $\pm$ 20m) in each pump station to the wet well into control panel, including sonic type level switches				
5.4.1		Pump station	Sum	1.00		
<b>5.5</b>		<b>POWER SUPPLY</b>				
		Disconnect from existing control panel redaim and reconnect to new Distributor Board in:				
5.5.1		Pump station	Sum	1.00		
5.6		<b>SUB-CONTROL BOARDS</b>				
		Repairing wall mounted control boards for sub-boards at grinder platforms at:				
5.6.1		Pump station	Prov Sum	1.00		
<b>5.7</b>		<b>Cabling between Main panel and Sub-Boards including making off and connection ....m of ....mm2 PVCSWA cable at R.../m at:</b>				
5.7.1		Tweeling pump station	Sum	1.00		
<b>5.8</b>		<b>OUTSIDE LIGHTING</b>				
5.8.1		Pole mounted 150W High pressure Sodium Lamps (6m high - 1000mm dia fiber Glass poles) Excavate for and fix in position	No	4.00		
5.8.2		Supply and lay in trenches by others .....mm2 PVCSWA cable for pole mounted lights	m	120.00		
<b>5.9</b>		<b>WIRING</b>				
		Switches, wiring in aluminum surface cabling, lights, sockets, etc. as set out in the specification clause for:				
5.9.1		Pump station (C3.1.6.13.4)	Sum	1.00		
<b>5.10</b>		<b>TESTING AND COMMISSIONING</b>				
5.10.1		Commission and Testing of the Pump station	Sum	1.00		
<b>TOTAL SECTION 5</b>						

ITEM	PAYMENT	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>6</b>		<b>SECTION 6: RETICULATION SEWER PIPE</b>				
<b>6.1</b>	SABS 1200 L	<b>MEDIUM PRESSURE PIPELINES</b>				
6.1.1		UNBLOCKING OF EXISTING SEWER LINES				
6.1.1.1		Unblock existing sewer line by removing all debris, stones and other foreign items from sewer manholes and sewer pipeline. Use a water pressure jet to clean existing sewer line until the mirror test is successful for pipeline. Price irrespective of depth of pipeline, type of pipeline and class of pipeline.				
<b>6.2</b>		<b>High pressure jetting (combination jetting &amp; vacuum unit high pressure jetting capacity of 340l/s and 200 Bar)</b>	m	780.00		
6.2.1	SANS 1200 DA	EXCAVATION				
6.2.1.1		a) Excavate all materials and use for embankments or backfill or dispose, as ordered unsuitable material	m <sup>3</sup>	20.00		
6.2.1.2		b) Extra over for				
6.2.1.2.2		1) Hard rock excavation	m <sup>3</sup>	9.00		
6.2.1.2.3		2) Excavation for unsuitable material	m <sup>3</sup>	15.00		
6.2.1.3	8.3.4	Manholes				
6.2.1.3.1		Cleaning of Manholes as per Engineer instruction, Repair benching to Engineer instruction	No	12.00		
6.2.2		CONCRETE				
		Mass concrete as per Engineers instruction (20 Mpa)	m <sup>3</sup>	2.00		
<b>TOTAL SECTION 6</b>						

**BID NO: 011/2024-25**

**C2.2.2 SUMMARY OF SCHEDULES**

CIVIL SECTION	DESCRIPTION	AMOUNT
1.	PRELIMINARY AND GENERAL	R
2.	STRUCTURAL AND CIVIL WORKS	R
3.	SITE WORKS AND GENERAL REFURBISHMENT	R
4.	MECHANICAL WORKS FOR SEWAGE PUMPS	R
5.	ELECTRICAL WORKS INCLUDING SWITCHGEAR TO PUMPING PLANT AND GENERAL WIRING	R
6.	RETICULATION SEWER PIPE	R
<b>SUBTOTAL A</b>		<b>R</b>
Contingency (10%)		R
<b>SUB TOTAL B</b>		<b>R</b>
Add Value Added Tax (15%)		R
<b>TOTAL CARRIED TO FORM OF TENDER</b>		<b>R</b>

**TIME FOR COMPLETION:** .....weeks

**DATE:** .....

**SIGNATURE:** .....

**Capacity of Signatory in Organization:**

.....

**BANKING DETAILS**

**Bank:** .....

**Branch:** .....

**Clearance No.:** .....

**Account No.:** .....

**Phone Number of Branch:** .....

**T2.2 RETURNABLE SCHEDULES**

**T2.2.1: AUTHORITY OF SIGNATORY**

**T2.2.1.1:**

Signatories for Companies shall establish their authority by attaching a copy of the relevant Resolution of the Board of Directors, duly signed and dated, to this form. An example is shown below:

"By Resolution of the Board of Directors at a meeting on ..... 20 .....

Mr. .... has been duly authorized to sign all documents

In connection with Tender No. .... of .....  
on behalf of (block capitals).....

**SIGNED ON BEHALF OF COMPANY:**.....

.....

**IN HIS CAPACITY AS :** .....

**SIGNATURE OF SIGNATORY :** .....

**T2.2.1.2: SIGNATORIES FOR CLOSE CORPORATION**

We, the undersigned, being the key members in the business trading as.....  
hereby authorize Mr. / Ms. ...., to sign all documents in connection with  
the tender and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

**NOTE :** This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.

**T2.2.1.3 : SIGNATORIES FOR JOINT VENTURE**

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize Mr. / Ms. ...., authorized signatory of the company ..... , acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	AUTHORISING SIGNATURE, NAME & CAPACITY
Lead partner		

**T2.2.1.4: SIGNATORIES FOR OTHER CONCERN**

We, the undersigned, being the key members in the business trading as..... hereby authorize Mr. / Ms. ...., to sign all documents in connection with the tender and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE : This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Concern as a whole.

**T2.2.2: SCHEDULE OF PLANT AVAILABLE**

The Tenderer's attention is drawn to the various sections of the Specifications.

The Tenderer shall state below which plant would be immediately available, which plant would be available from orders for plant outstanding, and which further plant would be acquired for the work should the Tenderer be awarded the Contract.

(a) Plant immediately available for this work:

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

(b) Plant on order and which will be put on the work on arrival:

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

(c) Plant that will be acquired for the work if Tender is accepted:

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

**TENDERER :** .....

**DATE :** .....

**T2.2.3: PREVIOUS EXPERIENCE OF TENDERER**

The Tenderer shall, in the schedule hereunder, list all work, of a similar nature to that contained in this Contract, which has been carried out by him during the last three years.

EMPLOYER	DESCRIPTION OF WORK	APP. VALUE OF WORK	YEAR OF COMPLETION

**TENDERER:** .....

**DATE:** .....

**T2.2.4: DAYWORK SCHEDULE**

The Tenderer shall complete this Annexure in every respect.

The rates and prices given below shall be utilized in settling any claim or claims for which no comparable rate is available in the Schedule of Quantities.

The Tenderer will be required to prove that such rates and prices are reasonable.

**1. MATERIAL**

- Cement Per 50kg pocket delivered .....
- Sand Per cubic metre delivered .....
- 38mm - Nom. stone Per cubic metre delivered .....
- 20mm - Nom. stone Per cubic metre delivered .....
- 13mm - Nom. stone Per cubic metre delivered .....
- Clay face bricks Per 1000 delivered .....
- Engineering clay bricks Per 1000 delivered .....

**2. LABOUR**

- Foreman Per week .....
- Ass Foreman Per week .....
- Steel Erectors Per hour .....
- Sheet Layers Per hour .....
- Carpenters Per hour .....
- Painters Per hour .....
- Gangers Per hour .....
- Unskilled labour Per day .....
- Plumbers Per day .....
- Brick layers Per day .....

The above wages and rates shall allow for the gross remuneration of workmen and foremen and the nett cost of materials actually used. These rates shall be subject to the markup percentages stated in the Contract data as required under Clause 40(4)b of the General Conditions of Contract.

**3. TRANSPORT**

Rate per cubic meter per kilometer as

- Measured in vehicle .....
- Rate per metric ton per kilometer .....

No percentage allowance shall be added to rates for transport.

**4. PLANT**

The Contractor is to provide rates for any equipment and plant he may consider necessary for the execution of any daywork he may encounter. Rates stated here shall include all profit, etc. These rates will be deemed to include the cost of operator/s if any. In the event of plant used for which no rates are mentioned hereunder, the costs will be held as the average of the rates supplied by three recognized plant hire specialists including an extra over of 15%.

DESCRIPTION		OPERATING TARIFF	STANDING TIME TARIFF
Backactor .....	Per hour		
Backactor .....	Per hour		
Backactor .....	Per hour		
Backactor Case .....	Per hour		
Backactor .....	Per hour		
Loader .....	Per hour		
Tippers .... m <sup>3</sup> .....	Per hour		
Compressor .....c.f.m.	Per hour		
Grader .....	Per hour		
Bulldozer .....	Per hour		
Bulldozer .....	Per hour		

**TENDERER :** .....

**DATE :** .....

**T2.2.5: STATUS OF CONCERN SUBMITTING THE TENDER**

**1. GENERAL**

State whether the tenderer is a company, a closed corporation, a partnership or a one-man concern)

(Make an X in the appropriate space hereunder)

Company  Closed Corporation  Joint Venture  Other

**2. INFORMATION TO BE PROVIDED (Block letters)**

**2.1 IF THE TENDERER IS A COMPANY :**

- (a) Affix a certified copy of the Certificate of Incorporation to this page
- (b) List of Directors

.....  
.....

**2.2 IF THE TENDERER IS A CLOSED CORPORATION :**

- (a) Affix a certified copy of the Founding Statement to this page
- (b) List of Members

.....  
.....

**2.3 IF THE TENDERER IS A JOINT VENTURE:**

- (c) Affix a certified copy of the relevant status documents of concern to this page
- (d) List the firms forming part of the Joint Venture

.....  
.....

**2.4 IF THE TENDERER IS ANY OTHER:**

Provide full particulars and description for type of concern

.....

**TENDERER :** .....

**DATE :** .....

**BID NO: 011/2024-25**

**T2.2.6: PRELIMINARY PROGRAMME / CASH FLOW SCHEDULE**

Tenderers shall provide their preliminary programme and estimated cash flow for the contract period including a provision for expected escalation but excluding contingencies.

	ACTIVITY	WEEKS				WEEKS				WEEKS				WEEKS				WEEKS				WEEKS						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
<b>CASH FLOW</b>																												

**BID NO: 011/2024-25**

**T2.2.6: PRELIMINARY PROGRAMME / CASH FLOW SCHEDULE**

	ACTIVITY	WEEKS				WEEKS				WEEKS				WEEKS				WEEKS				WEEKS						
		29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
16																												
17																												
18																												
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22																												
23																												
24																												
25																												
26																												
27																												
28																												
29																												
30																												
<b>CASH FLOW</b>																												

**TENDERER:** .....

**DATE:** .....

**BID NO: 011/2024-25**

**T2.2.7: SUB-CONTRACTORS SCHEDULE**

Should the Tenderer decide to execute certain portions of the work by employing additional subcontractors, this schedule must be completed.

<b>NAME AND ADDRESS OF SUBCONTRACTOR</b>	<b>PORTION OF WORK TO BE DONE BY SUB-CONTRACTOR</b>	<b>VALUE OF WORK</b>

**TENDERER:** .....

**DATE:** .....

**BID NO: 011/2024-25**

**T2.2.8: LABOUR SCHEDULE**

The tenderer shall indicate in this schedule the number of site personnel to be employed on this project.

DESCRIPTION	NON-LOCAL LABOUR	LOCAL LABOUR		
		MEN	WOMEN	YOUTH
<b>Contracts Manager:</b> Name: ..... Qualifications: ..... <b>Site Agent:</b> Name: ..... Qualifications: ..... Foreman Technical Personnel Administrative Personnel Artisans Skilled Labour Unskilled Labour				
<b>TOTAL NUMBER OF PERSONNEL</b>				

**TENDERER:** .....

**DATE:** .....

**BID NO: 011/2024-25**

**T2.2.9: ALTERATIONS BY TENDERER**

Should the Tenderer desire to make any departures from or modifications to the General Conditions of Contract, Specification, Schedule of Quantities or Drawings, or to qualify his tender in any way, he shall set out his proposals clearly hereunder or alternatively state them in a covering letter attached to his tender and referred to hereunder, failing which the tender will be deemed to be unqualified.

PAGE	CLAUSE OR ITEM

**TENDERER:** .....

**DATE:** .....

**BID NO: 011/2024-25**

**T2.2.10: CERTIFICATE OF TENDERER'S VISIT TO THE SITE**

This is to certify that I, .....  
..... Contractor, of  
.....  
..... In the company  
of..... visited the site on  
(date) ..... having previously studied  
the Contract Documents, I carefully examined the site.

I further CERTIFY that I am satisfied with the description of this work and explanations given by the said Engineer and that I understand perfectly the work to be done, as specified and implied, in the execution of this Contract.

**WITNESS:**

1. ....  
.....  
**TENDERER**

**WITNESS:**

1. ....  
.....  
**ENGINEER**

**VOLUME 3**  
**CONTRACT**

## C1.2 CONTRACT DATA

### C1.2.1 SCHEDULE OF CONTRACT DOCUMENTS

#### THE FOLLOWING DOCUMENTS FORM PART OF THIS CONTRACT:

1. "General Conditions of Contract for Construction Works, Third Edition (2015)" prepared under the auspices of the South African Institution of Civil Engineers, The South African Association of Consulting Engineers and the Institution of Municipal Engineering of Southern Africa and the South African Federation of Civil Engineering Contractors.
2. SABS 1200 – Standardized Specifications for Civil Engineering Construction (the applicable standardized specifications are listed in the Project Specification).
3. Occupational Health and Safety Act. Act No. 85 of 1993.
4. This volume containing Conditions of Tender, Special Conditions of Contract, the Project Specification, Bill of Quantities, Contract data, Agreement, Schedules, etc.

### C1.2.2 GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract that apply to this contract are:

General Conditions of Contract for Construction Works, Third Edition (2015).

As prepared under the auspices of the South African Institution of Civil Engineers, South African Association of Consulting Engineers and the Institution of Municipal Engineering of Southern Africa and the South African Federation of Civil Engineering Contractors.

#### Copies of this document may be purchased from:

- The Secretary SAICE East Wing Howick Gardens Waterfall Park BekkerStr Vorna Valley Midrand	- The Secretary SAACE St James House Hampton Park North 20 Georgian Crescent Bryanston Sandton 2021	- The Secretary SAFCEC 12 Skeen Boulevard Bedfordview 2008
---	--	--

It is deemed that the Contractor is in possession of and has read and understood the "General Conditions of Contract" described above.

### C1.2.3 SPECIAL CONDITIONS OF CONTRACT

The following definitions and conditions apply to this Contract and the Employer undertakes that the only variations from the General Conditions of Contract, Third Edition (2015), are as follows:

<b>CLAUSE</b>	
<b>DEFINITIONS, INTERPRETATIONS AND GENERAL PROVISIONS</b>	
1.1.1.15	The "Employer" means FEZILE DABI DISTRICT MUNICIPALITY
1.1.1.16	The "Engineer" means FLAGG CONSULTING ENGINEERS (PTY) LTD
<b>ENGINEER AND ENGINEER'S REPRESENTATIVE</b>	
3.1.3	The duties and functions of the Engineer requiring the specific approval of the Employer before execution of any of these duties are as follows:
i)	Any variation of the form, quality of quantity of the Works or any part thereof which will result in the Tender Sum being exceeded irrespective of the magnitude of the over expenditure;
ii)	Any payment, which will result in the tender sum being exceeded irrespective of the magnitude of the over expenditure.
<b>BASIS OF CONTRACT</b>	
4.2.2	In addition to what is stated in Clause 4.2.2, in matters relating to the safety of workmen or the public the Contractor shall comply with any instruction issued by the Employer's Safety officer.
Add Clause 2.6 to read as follows :	
2.6	Occupational Health and Safety Act
4.4.6	Add the following to Sub-clause : 4.4.6
"Should the employer make payment directly to a Nominated or Emerging Subcontractor in terms hereof, consequent on default on the part of the Contractor, the Contractor shall be deemed to have forfeited all his rights to receive payment of "handling charges", "commission" and/or other fees and charges to which, in terms of the Contract he would otherwise have been entitled, in respect of the amount so paid by the Employer directly to the nominated Subcontractor. If the Subcontractor fails to pay his labourers then the Employer reserves the right to pay such labourers directly from the contract or to nominate the Contractor to pay such labour. The Subcontractor shall be deemed to have forfeited all his rights to receive payment in terms of the contract or any subcontract."	
<b>COMMENCEMENT OF WORKS</b>	
5.3	Add Clause 5.3 to read as follows :
The Contractor shall not start any work before receipt of the Engineer's instruction; which instruction is subject to the submission by the contractor of documentation required as set out in the Contract Data.	
5.9	Add Sub-clause 5.9.8 to read as follows :
"The Engineer shall give the survey details to the Contractor, where after the Contractor shall be responsible to establish his own benchmarks, reference pegs and setting out of the Works."	
"The Contractor shall take care not to disturb or destroy property beacons, trigonometrical survey beacons or setting out beacons. A registered Land Surveyor who shall certify such replacement shall replace property and trigonometrical survey beacons that have been destroyed or disturbed.	
The cost of replacing all beacons that have been disturbed or destroyed during the course of the Contract shall be borne by the Contractor."	
<b>CONTRACTOR'S GENERAL OBLIGATIONS</b>	
4.5.1.2	Add the following at the end of Clause 4.5.1.2 :
The Contractor shall pay particular attention to the contents of the following Acts :	
a)	Section 59 of the Industrial Conciliation Act No 28 of 1966 and any amendments thereto.
<b>NB</b> : Unskilled labour in the building industry are subject to an agreement in terms of the said Industrial Conciliation Act.	
b)	Machinery and Occupational Safety Act No 6 of 1983 as amended.
c)	Workmen's Compensation Act No 30 of 1941.

## CLAUSE

### PROGRESS AND TIME FOR COMPLETION

5.12.2 Add the following to this sub-clause :

Time is an essential element to the agreement. The Contractor will submit his claim for extension of time, either written at the normal site meetings, or in accordance with the conditions stipulated in the General Conditions of Contract.

5.12.2.2 Abnormal climatic conditions

The Contractor must supply a rain gauge on site.

The amount of rain must be recorded daily by the Engineer's Representative and the Contractor for discussion at the site meetings.

No extension of time of completion will be granted for normal rainfall, but extension of time in terms of clause 5.12 of the General Conditions will be calculated according to the following formula, separately for each calendar month or part thereof. This will be calculated for the whole time of completion including any extension thereof that may be granted:

$$E = (Nw - Nn) + \frac{(Rw - Rn)}{20} \text{ if } (Nw - Nn) > 0.$$

WHERE

E = Extension of time in calendar days in respect of the calendar month under consideration.

Nw = Actual number of days during the calendar month under consideration on which a rainfall of 10mm or more had been recorded.

Nn = Average number of days in the relevant calendar month as derived from existing rainfall records provided in the project specification on which a rainfall of 10mm or more has been recorded.

Rw = Actual rainfall in mm for the calendar month under consideration.

Rn = Average rainfall in mm for the calendar month as derived from the rainfall records supplied in the project specifications.

The total extension of time shall be the algebraic sum of the monthly totals for the period under consideration. But if the grand total is negative, the time for completion shall not be reduced on account of abnormal rainfall. Extension of time for parts of a month shall be calculated by pro-rata values of Nn and Rn being used.

The factor (Nw - Nn) shall be considered to represent a fair allowance for variations from the average number of days during which rainfall exceeds 10mm. The factor  $\frac{Rw - Rn}{20}$  shall be considered to

represent a fair allowance for variations from the average for the number of days during which rainfall does not exceed 10mm but when wet conditions prevented or disrupted work. This formula does not take into account any flood damage, which could cause further or concurrent delays and should be treated separately in so far as extension of time is concerned.

Accurate rain gauging shall be taken at a suitable point on the site, and the contractor shall, at his own expense, take all necessary precautions to ensure that the rain gauges cannot be interfered with by unauthorized persons.

Should Nw for any month be smaller than Nn, the following formula shall be used:

$$E1 = (Nn - Nw)$$

Therefore, the total extension of time for completion will be the difference between E and E1.

Total extension of time = E - E1.

## CLAUSE

5.12.2.2 The following are the most reliable figures of Nn and Rn available and shall be used should no agreement be reached beforehand.

### SOURCE OF INFORMATION: WEATHERBURO, PRETORIA

Rainfall district: TWEELING/MAFAHLANENG

MONTH	Nn	Rn
January	7.9	100.5
February	6.5	82.3
March	4.7	56.6
April	3.3	30.6
May	1.5	12.2
June	0.9	6.4
July	0.6	2.9
August	1.7	14.2
September	2.2	24.7
October	6.6	72.4
November	8.2	88.6
December	8.1	97.3
<b>YEARLY AVERAGE</b>		<b>588.8</b>

This formula does not take account of flood damage, which could cause further or concurrent delays and will be treated separately as far as extension of time is concerned.

6.8.2 The CPAF should be calculated according to the formula and the conditions as set out in the Contract Price Adjustment Schedule on page 93 of the General Conditions for Construction Works, Third Edition, 2015 after 12 months of the project.

6.8.3 Price adjustments for variations in the costs of special materials are allowed.

10.7.1 The determination of disputes shall be by arbitration.

### PROVISIONS

9.2. In addition to but without limiting the provisions of Clause 7.9 the following shall apply :

“If the Contractor fails to execute the works in accordance with the provisions of the Contract the Engineer may give notice in writing to the Contractor to make good the failure, delay or default and should the Contractor fail within seven (7) days to commence effective action to remedy the failure, delay or default then and in such case, the Engineer shall without prejudice to any rights under the Contract, and without invalidating the Contract, be at liberty to take such work out of the Contractor’s hands and contract with any person or persons to complete such work. The cost to the Employer of so completing such work will be payable by the Contractor.”

### CESSIONS

6.10 Add the following to this sub-clause :

1. Cessions will only BE ALLOWED on payment of material, labour and management.
2. Any other requests for cessions must be submitted to the Municipal Manager for consideration.
3. Cessions will not be allowed on newly awarded tenders. Contractors / companies may only apply for a cession after half of the timeframe allowed for the completion of the project has lapsed.

## CLAUSE

### **ACT No 85 OF 1993 OCCUPATIONAL HEALTH AND SAFETY ACT**

The employer and the contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act, Act No. 85 of 1993, hereinafter referred to as "the Act", that the contractor as an employer in its own right and in its capacity as contractor for the executions of the works, shall have certain obligations and that the following arrangement shall apply between them to ensure compliance by the contractor with the provisions of the Act, namely-

- i) The contractor undertakes to acquaint the appropriate officials and the employees of the contractor with all relevant provisions of the Act, and the regulations promulgated in terms of the Act, and
- ii) The contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and regulations will be fully complied with, and
- iii) The contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and regulations and expressly absolves the employer and the employer's consulting engineers from being obliged to comply with any of the aforesaid duties, obligations and prohibitions in respect of the work included in the contract.
- iv) The contractor shall be obliged to report forthwith to the employer any investigation, complaint, or criminal charge which may arise as a consequence of the provisions of the Act and regulations pursuant to work performed on behalf of the employer, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.
- v) The Contractor shall submit a complete Health and Safety Plan, in accordance with the Act prior to the commencement of any permanent work for approval by the engineer.

Addendum C contains the pre contract Health and Safety Specification which must be used as a guideline by the Principal Contractor and his appointed Subcontractors to compile the Health and Safety Plan for this project and forms part of the tender documentation.

The Contractor must include as part of the Health and Safety Plan a procedure to create HIV/AIDS awareness amongst all of the workers involved in the project for the duration of the project, through the following strategies :

- Awareness about HIV/AIDS must be raised through education and information on the nature of the disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary testing and counseling, the diagnosis and treatment of Sexually Transmitted Infections and the closest health Service Providers.
- Informing workers of their rights with regard to HIV/AIDS in the workplace.
- Providing workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices.

## **PART C2: PRICING DATA**

### **C2.1 PRICING INSTRUCTIONS**

Pricing instructions are incorporated in Part T1.2.1 Instructions to Tenderers; page 5 to 10.

### **C2.2 SCHEDULE OF QUANTITIES**

The Schedule of Quantities have been placed for convenience after Part T2.1 from page 40 to 44 for the tender stage and will be incorporated as part of the contract at project implementation stage.

## FEZILE DABI DISTRICT MUNICIPALITY

### REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING / MAF AHLANENG

BID NO: 011/2024-25

#### PART C3: PROJECT SPECIFICATIONS

##### SCOPE OF WORK

This project specification consists of two parts. Part C3.1 contains a general description of the project and the requirements that shall be adhered to. Part C3.2 contains the variations on and additions to the standardized specifications applicable to the contract.

##### STATUS

All the Clauses in the General Conditions of Contract and the Special Conditions of Contract shall apply to the full extent of the contract and each distinct part thereof. The Project Specifications shall be read in conjunction therewith. The Project Specification is additional to and an extension to any other specification and should any requirement or clause of the Project Specification conflict with other parts of the Specifications and/or General Conditions of Contract and/or Drawings, the requirements and stipulations of the Project Specifications shall apply. It shall be borne in mind that only the Parts of the Specification relevant to the Work, which is described in this Contract, be applicable on the Contract.

#### C3.1 SCOPE OF WORK

##### C3.1.1 General Description of the Works

The Upgrading of Sewer Pumping Station (Mechanical and Electrical)

The items that will be refurbished on the existing Pump station are mechanical and electrical components.

Two sets of pumps will be repaired as they are currently not operational.

The existing Motors will be replaced by New Once, the missing cables will be replaced.

The Panel will be upgraded to cater the demand (components/fuses/Breaker that are missing will be replaced).

The replacements of all lights at the pump station pumping station.

Commissioning of Pump station and Site handover.

##### **Desludging of Sump/Lines and Manholes**

The Wet sump and the Main lines on the western site of Mafahlaneng are blocked and need to be cleaned with high pressure vacuum /Hydrants in accordance with Red Book requirements to facilitate proper operation and management of the reticulation network system.

### **C3.1.3 Construction Programme**

#### **C3.1.3.1 Commencement Date**

The anticipated commencement date for the Contract is January 2025

#### **C3.1.3.2 Format and Detail**

The construction programme shall be in the format of a bar chart (Gantt Chart) and shall in addition to normal activities and items include the following detail;

- i) cash flow on a monthly basis,
- ii) production rates for all activities,
- iii) dependencies between various activities or items, and
- iv) critical path for the execution of the works.

The format and detail of the programme shall be to the Engineer's approval.

#### **C3.1.3.3 Quality Control Plan**

In addition to the normal construction programme the Contractor shall submit a quality control plan in accordance with SABS 0157 prior to commencement of any permanent work for approval by the Engineer.

The Quality Control Plan shall make provision for regular reporting and reports shall be submitted to the Engineer on a monthly basis or more frequently if required.

#### **C3.1.3.4 Provisional Programme**

A provisional programme which complies with the above-mentioned requirements shall be submitted at tender stage. The provisional programme shall be based on an anticipated commencement date of January 2025.

### C3.1.4 Conformity with Expanded Public Works Programme (EPWP) Requirements

The project is funded by a government agency and is subsequently destined to conform with EPWP requirements of employment, training and capacity building in as great an extent as can efficiently be achieved.

Tenderers are required to submit details of their proposed conformance with EPWP requirements of employment, training and capacity building with their tenders. This should include details of;

- i) the extent to which labour-intensive construction methods are applicable and will be employed and the number of employment opportunities which will subsequently be created for local labourers,
- ii) the extent to which local sub-contractors will be employed with specific reference to conventional sub-contractors, sub-contractors employed on a management contractor basis and sub-contractors employed on a labour only basis where the main contractor will be responsible for logistics (eg materials and transport) and quality control and the sub-contractor will be responsible for the manpower component.
- iii) the extent to which support staff (clerks, messengers, typists, security personnel, drivers and labourers for general maintenance) will be employed from the local community, and
- iv) details of proposed education, training and capacity building programmes including the number of candidates to participate in the various programmes and the various institutions which will be contracted to present the training programmes.

The **conformity with EPWP requirements** will together with **Contract Price** form the main criteria for the evaluation and adjudication of the tender. In evaluating the tenders, any additional offer in regard to capacity building will be to the advantage of the tenderer.

The proposed conformance with EPWP requirements of employment, training and capacity building as submitted with the tender will become binding on the Contractor in terms of the Contract if his tender is accepted. A **fixed cost** and **time related cost** payment items for **conformity with EPWP requirements** have been included in **Section 1** of the **Schedule of Quantities**. The tendered rates will represent the total remuneration for conformity with EPWP requirements as submitted by the Contractor with his tender.

Guidelines for conformity with the EPWP requirements are contained in **Annexure D** and form part of this tender documentation.

### **C3.1.5 APPLICABLE STANDARDIZED AND PARTICULAR SPECIFICATIONS**

#### **C3.1.5.1 STANDARDIZED SPECIFICATIONS**

##### **CIVIL ENGINEERING CONSTRUCTIONS**

SABS 1200 A	:	General
SABS 1200 AB	:	Engineer's Office
SABS 1200 C	:	Site Clearance
SABS 1200 DA	:	Earthworks (Small Works)
SABS 1200 DB	:	Earthworks (Pipe Trenches)
SABS 1200 GA	:	Concrete (Small Works)
SABS 1200 LB	:	Bedding (Pipes)

##### **PARTICULAR SPECIFICATIONS**

**Specification PSQ:** Borrow Pits and Borrow Materials

**Specification PSWM:** Building Work (Minor Work)

### **C3.2 STANDARDISED / PARTICULAR SPECIFICATIONS**

#### **VARIATIONS ON STANDARISED SPECIFICATIONS**

Should any requirement of the Project Specification conflict with any requirement of the Standardized or Particular Specification, the requirement of the Project Specification shall prevail.

The standardized / particular specifications are included as an **Annexure B** for completeness and convenience.

### **C3.1.6 Project Specifications Mechanical**

#### **C3.1.6.1 Scope**

This contract calls for the supply, delivery, installation and testing of a number of self-priming dry well type sewage pumps and interconnecting pipework, all as specified hereinafter in greater detail. These works are to be executed in cooperation with the main civil contractor jointly tendering with the mechanical sub-contractor.

#### **C3.1.6.2 Pumps**

Each pump shall be of the horizontal spindle, non-choke able back pullout type with axially split casing, centrifugal type and shall be the product of an approved firm experienced in the design and manufacture of the type required for duty. The pumps shall be suitable for use in a dry well, adjoined by a deeper ( $\pm 4\text{m}$ ) wet well. This implies that the pumps shall have a negative suction head and will therefore be self-priming. The pumps and their component parts shall be robust, all parts and waterways shall be as large as possible and their surfaces shall be of streamlined finish and free from projections and other imperfections. Every wearing part shall be easily accessible and removable, so that servicing and replacements may be rapidly and easily effected, notwithstanding the fact that the material and workmanship shall be such as will give the longest possible life to the parts. Each pump shall be fitted with a lateral junction pipe on the suction end incorporating a wing nut screw down cover plate which will allow hand access into the pump chamber to facilitate cleaning from time to time. Alternatively a hand access opening may be provided on the volute (casing again with wing nut closing).

All rotating parts are to be in perfect balance dynamically and carried in suitable bearings protected against entry of any foreign or abrasive matter. The bearings are to be fitted with suitable devices such that lubrication is effective and adequate to carry over a period of seven days between servicing operations. The stuffing boxes shall be positively robust and adequate for the required seal, and the gland shall be easily accessible both for adjustments and repacking.

The pump and motor shall be mounted on a rigid baseplate, connected with a suitable mechanical coupling or robust belt drive and properly aligned. The coupling or belts shall allow for the dismantling of the pump without disturbing the motor.

Each pump shall be securely mounted ensuring complete rigidity when secured to its concrete base. Suitable holding down bolts shall be provided. 150mm Pressure gauges, suitably calibrated shall be provided on each delivery and suction branch of each pump.

#### **C3.1.6.3 Pump Duties**

One bank of two equal pumps are required for the Pump Station. The pumps shall be required to operate either one at a time or in any combination and/or sequence.

The pump duties are as follows :

## Tweeling Pump Station

For this pump station two equal pumps are required.

One acting as duty pumps and one as standby. These pumps are required to operate in sequence and/or combinations.

- **Medium** : Raw Sewage
- **Flow Rate** : Maximum 20.83 l/s – 2 pumps  
Minimum 12.04 l/s – 1 pump

■ <b>Hydraulic Considerations</b>	<b>Max</b>	<b>Min</b>
Elevation at delivery box	1727.00m	1727.00m
Maximum elevation in suction sump		1712.00m
Minimum elevation at suction sump	1708.00m	
<b>Static Head</b>	<b>19,00m</b>	<b>15,00m</b>

Friction head through a 160mm dia uPVC class 12 Pumping Main

TOTAL	5.72m	<u>1.72m</u>
	<b><u>24.72m</u></b>	<b><u>16.72m</u></b>

### ■ **Power Calculation**

Output required :	$\frac{24.72 \times 12.83 \times 9.81}{1\ 000}$	= 3.11 kW/ 2 pumps
		= 1.56 kW/ pump

Efficiency of pump : Assume = 0,48

Efficiency of motor : Assume = 0,9

Power factor of motor : Assume = 0,8

Input power :	$\frac{3.11}{0,48 \times 0,9 \times 0,8}$	= 9.00 kW/pump
---------------	---	----------------

**Size motors 15% above duty requirements = 10.35**

**Say 11 kW motors (2 pumps required)**

### **C3.1.6.3.2 Efficiency Requirements**

With one pump operating the drop in efficiency shall not be more than 10% from that achieved with two pumps operating simultaneously. The motors shall be sized for the maximum demand required when one pump is operating under minimum static head. Include an allowance of 15%.

The pumps and motors shall operate at maximum 1450 rpm.

#### **Curves**

The tenderer shall submit "Head-Discharge" curves for all the pumps, with the system curve, corresponding power, NPSH and efficiency curves, and the duty points clearly marked thereupon.

### **C3.1.6.4 General Arrangement and Operation**

The pumping sets shall draw from the dedicated wet sumps, with suction pipes to be supplied by the Contractor and shall deliver into existing diameter delivery mains with diameter as stated leading to the transfer manholes. All pipework on both suction and delivery ends between the sump and the delivery flanges shall be supplied by the contractor.

The pump and motor units shall be positioned on a concrete plinth on the floor of the pump station. The starters and control gear shall be the subject of a different section of the contract.

### **C3.1.6.5 Pump Requirements**

The pump shall be of the horizontal spindle centrifugal type running at a speed of less than 1 450 rpm and shall be supplied complete with squired a Cage-TEFC motor complying with BS 4999 and BS 2757 Isolation Class F, bedplate, mechanical coupling, coupling guard, air release cocks, 150mm diameter suction and delivery pressure gauges calibrated in kPa with isolating bibcock's, 25mm galvanised pipe gland drainage system, foundation bolts, etc.

The pipework which is to be supplied with the pumps consists of that shown in the tender drawings. The pumps will have a negative suction head. Generally an isolating valve with hand wheel is required on both suction and delivery end. On the delivery end a free flow non-return valve is to be provided. Pipe diameter shall allow flow speeds not to exceed 1,2 m/sec at maximum flow rate. The pipework and valves shall comply with the requirements of Clause 6.

### **C3.1.6.6 Pipes, Fittings and Jointing Materials**

#### **C3.1.6.6.1 General**

The Tenderer shall state in his tender the materials of all pipes and fittings and the class of pipes and fittings with regard to working pressures which shall suit the pressure conditions likely to occur in the works. The internal diameters of pipes and fittings shall conform to the sizes given on the drawings where shown and elsewhere the sizes shall be such that flow velocities conform to normal accepted practice.

All pipes and fittings with internal diameter of 75mm and over shall have flanged joints complying with BS 4504 : Table 10. All flanged pipes and fittings shall be bolted together with 3mm thick rubber or other approved insertion joint between flanges. Bolts with hexagonal heads and nuts and of correct length shall be used.

The Contractor's price shall include for all jointing material, jointing and testing to twice the working pressures.

Pipework passing through concrete work shall have approved puddle collars centrally in the concrete work. Joints of pipework passing through concrete work shall not be closer than 150mm from the face of such concrete.

#### **C3.1.6.6.2 Cast Iron Pipes and Specials**

All cast iron pipes and pipe specials shall conform to BS 78 and 2035 with amendments, Class B. Cast iron specials for use with asbestos cement pipes shall conform to SABS 546. Cast iron pipework shall be once bitumen coated prior to dispatch to the site.

#### **C3.1.6.6.3 Galvanised Screwed and Socketed Tubes**

All small diameter steel tubes and fittings shall comply with BS 1387 and shall be galvanised and of medium weight. Alternatively, malleable cast iron pipe fittings complying with SABS 509:1 will be acceptable.

#### **C3.1.6.6.4 Steel Pipes and Fittings**

##### **C3.1.6.6.4.1 SABS Compliance**

All steel pipes and fittings shall comply with SABS 719 and 720.

##### **C3.1.6.6.4.2 Plate Thickness**

Steel pipes and fittings shall be manufactured from steel plate of 6mm minimum thickness.

##### **C3.1.6.6.4.3 Lining**

Steel pipes and fittings shall have a 0,35mm Copon EP 2300 coating externally as well as internally applied after steel grit blasting to SA 2 ½ of Swedish Standard SIS-05-5900-1967 with a blast profile of 30 to 50 micrometres. Alternatively a hot sintered powder coating of similar coating properties will be acceptable – details to be supplied and accepted prior to delivery.

##### **C3.1.6.6.4.4 Testing**

Steel pipes and fittings shall be tested hydraulically to 1500 kPa.

##### **C3.1.6.6.4.5 Protective Covers**

Steel pipes and fittings shall be provided with temporary covers made from Masonite or similar to all ends of pipes and fittings.

##### **C3.1.6.6.4.6 Flanges and Bolting**

All flanges and bolting to be in accordance with BS 4504 : 10/3.

##### **C3.1.6.6.4.7 Supports**

Pipelines shall be supported on suitable brackets or clamps to retain them in position and to relieve pipelines of undue stresses from thrusts and self-weight. Duck foot supports shall be used under vertical rising pipelines or where indicated on the drawings.

#### **C3.1.6.6.4.8 PIPE FLEXIBLE COUPLING**

Flexible couplings for cast iron and steel pipes should be of the Johnson type. Couplings shall be hydraulically tested to the same pressures for either cast iron or steel pipes and fittings as the case may be and shall be provided without central registers.

#### **C3.1.6.6.5 SLUICE VALVES**

##### **C3.1.6.6.5.1 General**

All sluice valves shall be of the double flanged, wedge-gate, non-rising (internal screw) spindle type, fitted with gate and body seating faces of resilient material (rubber or acceptable alternatives) arranged for clockwise rotation to close and complete with handwheels and position indicators. The handwheels to be permanently and indelibly marked with direction arrows.

##### **C3.1.6.6.5.2 Test Pressure**

All sluice valves shall be hydraulically tested in the manner of SABS 664 and the body test pressure shall be twice the working pressure. The gate leakage test pressure shall be the working pressure or half the specified body test pressure.

#### **C3.1.6.7 SCREENS**

To provide protection of the pumps against the detrimental effects of coarse debris it is required for the pump station that a suitable screen be installed in the approach inlet pipe to the wet well.

#### **C3.1.6.8 GENERAL ARRANGEMENT AND OPERATION**

The pumps are intended to operate either simultaneously or one at a time. The control system is discussed in detail hereafter.

The pumping sets shall draw from the existing modified wet sump through individual suction pipes, and shall deliver into a common delivery main leading in to the rising delivery main.

The pump and motor units shall be positioned on concrete bases on the floor of the pump station. The starters and control gear shall be mounted on the control platform.

#### **C3.1.6.9 PUMP REQUIREMENTS (General)**

The pump shall be the horizontal spindle centrifugal type running at a speed of less than 1 460 rpm and shall be supplied complete with motor, bedplate, mechanical or belt coupling, coupling guard, air release cocks, 150mm diameter suction and delivery pressure gauges calibrated in kPa with isolating bibcocks, gland drainage system, foundation bolts, etc.

The pipework to which is to be supplied with the pumps consists of that shown on the tender drawings. The pumps will operate under a negative suction head and are therefore require to be self-priming.

### C3.1.6.10 SWITCHGEAR

All pumps shall be able to operate in both manual and automatic mode and shall contain in the control circuitry an automatic sequencer which will provide for alternating the starting sequence of the pumps after each switch off. The switchpanel shall be floor mounted and shall have bottom cable entry. The control board shall be divided in the following subpanels:

- 1) Incomer Isolator
- 2) Minor circuits
- 3) Control circuitry
- 4) Pump 1 Starter Panel
- 5) Pump 2 Starter Panel

Each subpanel shall have its own front entrance door and in the cases of 1,4 to 5 shall have the main or sub isolator interlocked with the opening lever.

The subpanels shall contain the following features:

#### 1. Incoming Isolator Panel

- 1.1 Amply rated set of H.R.C. Fuses.
- 1.2 Isolator.
- 1.3 Voltmeter with selector to three phases and neutral.

#### 2. Minor Circuit Panel

- 2.1 A 15 A M.C.B. Single Pole outlet for the pumphouse lighting circuit.
- 2.2 A 30 A M.C.B. Single Pole outlet for the three pin socket circuit.
- 2.3 Earth leakage protection for b.
- 2.4 Allow for three spare single phase outlets and fit blank covers.

#### 3. Control Circuit Panel

See Section 2

#### 4. Pump Starter 1

- 4.1 Isolator.
- 4.2 Amply rated M.C.B.
- 4.3 Soft starter amply rated.
- 4.4 Earth leakage protection.
- 4.5 Pilot lights – Red – “On”, Green – “Off”.
- 4.6 Ammeter with selector to three phases and neutral.

## **5. Pump Starter 2**

Identical to 4.

The whole switchpanel shall be finished in electric orange (epoxy powder coated). A three pin socket shall be mounted on the side of the panel tied into the circuit.

### **C3.1.6.11 CONTROL SYSTEM**

#### **C3.1.6.11.1 Suction Low Level Control**

A pilot control cable with a Sonic type control switch shall be installed in the wet well to prevent the pumps running dry, and to control the switching on and off of pumps depending on water level.

#### **C3.1.6.11.2 Delivery High Level Control**

No control is required.

#### **C3.1.6.11.3 Suction Level Control**

Low level control by sonic control switch.

### **C3.1.6.12 FLOW METER**

A flow meter is required earth of the delivery mains.

The flow meter shall employ the general principle of all magnetic flow meters namely Faraday's Law, with the liquid moving through an induced magnetic field. The sensor shall be installed employing a saddle-type clamp around the pipe through a pilot hole in the pipe body. The meter shall be calibrated in the laboratory prior to installation. The meter shall be required to be installed on the pipe for the required flow rates, in positions as indicated on the tender drawings.

The meter shall be supplied complete with sensor pilot cable to the control panel in the Pump Room with signal procession unit with flow totalizer built into the control panel. "Endress and Hauser" or similar approved manufacture shall be required.

### **C3.1.6.13 ELECTRICAL WORKS INCLUDING CABLING, ETC IN PUMP STATIONS**

#### **C3.1.6.13.1 SCOPE**

This section of the contract calls for the supply, delivery, installation and testing of the supply cables to the pump station control system and pilot cabling all as specified hereinafter in greater detail.

#### **C3.1.6.13.2 POWER SUPPLY**

The power supply consists of 3 Phase, 50 Hertz, 380 V supply, installed by other into the existing pump station building and laid up to the main distribution board.

It shall be required of the contractor under this contract to make the necessary connections of the supply cable to the terminals of the main distribution board.

### **C3.1.6.13.3 CABLING TO SITE LIGHTING**

All cabling shall be suitable for underground installation, wire armoured P.V.C. cables to SABS 150 : 1957 or as amended. Cable connections shall be kept to a minimum and when required made with “Scotch-cast” or similar approved patented means. All cables shall be sized for full load plus an allowance of 30%.

Cable trenches will be excavated by the contractor for the civil works.

### **C3.1.6.13.4 WIRING OF PUMP STATION**

It will be required to wire and connect the lighting circuit, three pin socket circuit and any other circuits to the new control panel.

### **C3.1.6.13.5 CIRCUITS**

The following existing circuits shall be accommodated in the new control panel:

- a) Circuit containing three off – ceiling mounted double (2 x 1200m – 75w) fluorescent tube lights complete in the pump hall with one wall mounted switch plus a (2 x 1.8m x 75w) fluorescent tube lights in the dry well (3 total).
- b) Circuit containing two off – Type A wall mounted 100w Bulkhead Lights mounted over entrance doors with wall mounted switch.

Circuit containing 2 Pole mounted 160w High Pressure Sodium Lamps.

Circuit containing one three pin socket outlet on side of control panel.

### **C3.1.6.13.6 EARTHING**

All cable sheaths and armouring, switchgear, etc, are to be earthed by use of amply rated bare copper earthing strings connected to suitably located earthpikes and shall comply with the requirements of SABS : 0142 –1981. The existing system shall be checked and upgraded if required.

### **C3.1.6.13.7 CABLING AND WIRING**

All cabling and wiring shall comply with the requirements of the Local Authority as well as SABS : 0142 –1981 : Code of Practice for the Wiring of Premises.

### **C3.1.6.14 DRAINAGE PUMP**

An electrically driven, float controlled, submersible drainage pump is required to handle the gland drainage and incidental leakage in the pump well; Hydrostat or similar approved. The duty acceptable would be :

- 0.5 l/sec against a head of 10m which allows for friction.

The installation shall consist of 50mm uPVC Class 6 piping, holder bats for mounting against the wall, flexible hose section, non-return valve and sufficient cabling with isolator to a circuit breaker in the control panel. The outlet shall drain into the wet sump. The auto switch (float) shall be supplied with the pump.

### **C3.1.6.15 DETAILS TO BE SUBMITTED OF PLANT, EQUIPMENT AND CONCRETE WORK**

At the time of tendering, the Tenderer shall submit with his tender full specifications of the pumps, switchgear and connecting pipework offered, together with general drawings, performance curves, data and methods of operation and control.

The successful Tenderer shall be required to submit, within 4 weeks of notification of acceptance of this tender, dimensioned drawings of the concrete work required to receive the plant and equipment with the positions and sizes of pockets, recesses, HD bolts, etc. The tendered price shall include for all such drawings.

### **C3.1.6.16 DATA TO BE SUPPLIED WITH TENDER**

Full particulars of the material and equipment offered shall be submitted at the time of tendering, such information as requested being given in the Technical Schedule. All additional information shall be given either in Annexure A or in a covering letter referred to in Annexure A and all drawings, sketches, pamphlets, etc submitted with the tender shall be listed in Annexure A. Two additional sets of the tender drawings, sketches, pamphlets, etc shall be supplied by the Contractor within one week of the placing of the Contract.

### **C3.1.6.17 GUARANTEE**

At the time of delivery of the plant included under this contract guarantees to the satisfaction of the Engineer shall be submitted covering the overall efficiency of each item and the performance of the whole plant. Should the plant under test not comply with the terms of the guarantee, it will be liable to rejection and the Council reserves the right to take whatever steps it deems necessary to have the deficiencies made good at the expense of the Contractor.

### **C3.1.6.18 TESTING**

Upon completion of erection and running-in of the plant, the Contractor shall make all necessary arrangements for the testing of the plant and equipment in the presence of the Engineer. The testing of the pumps shall be carried out strictly in accordance with the latest relevant standard specifications except insofar as it may be amended or amplified by any other conditions of this Contract.

During the test careful records must be kept of the power consumed, the quantity delivered and the head of the pumps, the rate of discharge being determined by displacement in the reservoir, the head by calibrated pressure gauges and the level in the sump, and the power consumed by a calibrated kW hour meter. From these records the capacities and efficiencies of the plant shall be calculated to determine whether these are in compliance with the guaranteed figures submitted by the Contractor.

The Contractor shall be responsible for all the costs incurred in testing, including the supply and use of all calibrated instruments. Power used for the specified tests will not be charged against the Contractor.

## **PART C4: SITE INFORMATION**

### **C4.1 SITE INFORMATION**

#### **C4.1.1 Site of Works and Access**

The general layout of the project site and the extent of the works is shown on the tender drawings. Access to the site will be obtained through the access roads and internal streets of Tweeling/Mafahlaneng

Any additional temporary access routes, which the Contractor might require will be his responsibility and no separate payment other than that provided for in the Schedule of Quantities will be made for the construction, maintenance or removal of temporary access routes. The Contractor will remove all temporary access routes prior to completion of the Contract and rehabilitate the areas to their original state.

#### **C4.1.2 Soil Conditions**

No trial holes have been excavated. The perspective contractors may make arrangements to have trial holes dug in the area on their own accord with the approval of the Engineer.

#### **C4.1.3 Existing Services**

All existing services shall be indicated to the contractor where after he will assume full responsibility for maintaining these in good running order. It shall be understood that the production of the existing plant shall in no way be impaired during the contract.

#### **C4.1.4 Surveying and Cadastral Beacons**

The Contractor shall be held responsible for the cost incurred in replacing or repositioning of any cadastral beacons, which may have been disturbed by his actions.

Under no circumstances shall unauthorized persons replace cadastral beacons and the Engineer shall be informed immediately of any disturbed beacons. The Engineer shall arrange for the replacement of any beacons by a competent Land Surveyor.

#### **C4.1.5 Facilities available on site**

##### **C4.1.5.1 Electricity**

The Contractor shall make his own arrangements with the Mafube Local Municipality for electricity supply.

##### **C4.1.5.2 Water**

The Contractor shall make his own arrangements with the Mafube Local Municipality for water supply.

#### **C4.1.6 Site Facilities Required**

##### **C4.1.6.1 Temporary Offices, Furniture and Equipment for the Resident Engineers**

The facilities that has to be provided for the Resident Engineer consist of the following:

- i) one office, fully equipped, that may be shared with the contractor's site agent,
- ii) two carports,
- iii) survey assistants, materials and instruments, for his use whenever required.

##### **C4.1.6.2 Permanent Offices and Storage Sheds, etc. for the Contractor and Engineer as per – *Drawing F0079-G100.***

The Contractor shall provide at his own cost all offices and storage sheds of a permanent nature necessary for the convenience of his workmen and for storage of tools, plant, and materials in positions to be approved by the Engineer. On completion of the works, ownership of the buildings shall be given to the employer as per Engineers instruction. The Contractor shall also limit the movement of his equipment and personnel to the areas on site which have been pointed out by the Engineer.

##### **C4.1.6.3 Sanitary Facilities**

The Contractor must provide adequate sanitary facilities (permanent) and sewerage disposal in accordance with the Mafube health regulations.

**ANNEXURE A**  
**PRO FORMA DOCUMENTS**

**FORM OF GUARANTEE**

**BID NO: 011/2024-25**

WHEREAS **The FEZILE DABI DISTRICT MUNICIPALITY.**

(hereinafter referred to as "the Employer") entered into, a Contract with

.....

(hereinafter called "the Contactor") on the ..... day of ..... 20.....

for the construction of the **REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING / MAF AHLANENG**  
AND WHEREAS it is provided by such Contract that the Contractor shall provide the Employer with security by way of a  
guarantee for the due and faithful fulfilment of such Contract by the Contractor;

AND WHEREAS .....

has/have at the request of the Contractor, agreed to give such guarantee;

NOW THEREFORE WE, .....

do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-principal Debtors to the Employer  
under renunciation of the benefits of division and excussion for the due and faithful performance by the Contractor of all  
the terms and conditions of the said Contract, subject to the following conditions:

1. The Employer shall, without reference and/or notice to us, have complete liberty of action to act in any manner authorized and/or contemplated by the terms of the said Contract, and/or to agree to any modifications, variations, alterations, directions or extensions of the Completion Date of the Works under the said Contract, and that its rights under this guarantee shall in no way be prejudiced nor our liability hereunder be affected by reason of any steps which the Employer may take under such Contract, or of any modification, variation, alterations of the Completion Date which the Employer may make, give, concede or agree to under the said Contract.
2. This guarantee shall be limited to the payment of a sum of money.
3. The Employer shall be entitled, without reference to us, to release any guarantee held by it, and to give time to or compound or make any other arrangement with the Contractor.
4. This guarantee shall remain in full force and effect until the issue of the Certificate of Completion in terms of the Contract, unless we are advised in writing by the Employer before the issue of the said Certificate of his intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid or liquidated.
5. Our total liability hereunder shall not exceed the sum of .....  
..... (R .....).
6. The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon the Guarantor's liability hereunder shall cease.
7. We hereby choose our address for the serving of all notices for all purposes arising here from as

.....

IN WITNESS WHEREOF this guarantee has been executed by us at .....

on this ..... day of ..... 20.....

As witnesses:

1. .... Signature .....

2. ....

Duly authorized to sign on behalf of

Address: .....  
.....  
.....

**RETENTION MONEY GUARANTEE**

ISSUED TO: **THE FEZILE DABI DISTRICT MUNICIPALITY** (hereinafter referred to as “the Employer”)

ON BEHALF OF: ..... (hereinafter referred to as “the Contractor”)

In connection with

**BID NO: 011/2024-25**

**WHEREAS the Employer and the Contractor have agreed that the Contractor may provide a guarantee in lieu of the whole or portion of the retention monies provided for under the Contract;**

NOW THEREFORE we, the undersigned, undertake, in accordance with the following provisions, to pay to the Employer such amounts as the Employer may, from time to time, demand from us.

1. Each demand by the Employer shall be in writing signed by the Employer and delivered to us at ..... or such other address be in ..... as we shall in writing notify to the Employer and shall be accompanied by a certificate complying with Clause 2, signed by the Engineer in office as such in terms of the Contract.
2. The Engineer's certificate referred to in Clause 1 shall certify
  - a) that he is the Engineer in office as such in terms of the Contract,
  - b) that the Contractor is in breach of his obligations under the Contract, and
  - c) that the amount demanded, which amount the certificate shall specify,
    - i) does not exceed the amount of retention monies which, but for this guarantee, would have been retained by the Employer in terms of the Contract at the date of the certificate, less the aggregate of the amounts of retention money actually retained by the Employer and the amounts previously paid by us to the Employer in terms hereof, and
    - ii) does not exceed a genuine estimate of the cost to the Employer of having the breach referred to in paragraph (b) remedied less the aggregate of any amounts withheld by the Employer from payments due to the Contractor in terms of the Contract by reason of the breach referred to, and any amount of retention money actually held by the Employer save to the extent that the same had been deducted from any previous demand in terms hereof.
3. We shall within ..... days after our receipt of a demand complying with the provisions of Clauses 1 and 2 make payment to the Employer of the amount demanded at ..... or at such other address in ..... as the Employer shall in writing notify to us.
4. Subject to compliance with the provisions hereof, our liability to make the payments herein referred to shall be unconditional and shall not be affected or diminished by any disputes, claims or counterclaims between the Employer and the Contractor.
5. Our aggregate liability under this guarantee is limited to R .....
6. This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by the Employer, becomes payable to the Contractor.
7. This guarantee is not transferable and must be produced for endorsement if any part payment is made and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 6, whichever is the earlier.

Signed in the presence of the subscribing Witnesses:

At ..... for and on behalf of .....

on this ..... day of ..... 20 .....

Signature: .....

Capacity: .....

Address: .....

**As Witnesses:**

1. ....

2. ....

**BID NO: 011/2024-25**

**FORM OF BOND FOR UNUSED MATERIALS ON SITE**

EMPLOYER: **THE FEZILE DABI DISTRICT MUNICIPALITY**

CONTRACTOR .....

DESCRIPTION OF CONTRACT .....

We the ..... (Bank or Company) do hereby bind ourselves as surety in solidum and co-principal debtors to recompense the Employer in the event of his not acquiring ownership of materials for whatever reason, or in the event of his lawfully being required to make payment of any sum of money to any third party in order to obtain or retain ownership or full and free possession of the said materials, in circumstances where the Employer has paid the Contractor for the said materials on Site in terms of Clause 62(1)(b) of the General conditions of Contract, and for all losses, damages and expenses that may be suffered or incurred by the Employer as a result of such payment for the said materials on Site, renouncing all benefits from the legal exceptions ordinisueexcussionis et divisionis "No value received" and all other exceptions which might or could be pleaded against the validity of this guarantee, with the meaning effect of which exceptions we declare ourselves to be fully acquainted; provided that the liability of the undersigned under this guarantee is limited to and shall not exceed .....

(R .....)  
will lapse after issue of the Completion Certificate in terms of the Contract, unless the surety is advised in writing by the Employer before issue of the said Certificate of his intention to institute claims and the particulars thereof, in which event this guarantee shall remain in force until all such claims are paid or settled.

**FOR AND ON BEHALF OF THE SURETY:**

**SIGNATURE:**

AT .....

1. ....

2. ....

**NAME OF SURETY:** .....

**ADDRESS:** .....  
.....

## APPOINTMENT – GSR 11(1)

### BUILDING WORK SUPERVISOR

The Occupational Health and Safety Act 85/1993.

#### GENERAL SAFETY REGULATION 11(1)

Every employer who performs building work shall charge a full-time employee, designated in writing by the employer, with the duty of supervising the performance of such building work. Provided that if such employer himself has the experience contemplated in sub regulation (2) and supervises the work himself, such charging and designation need not be done.

#### GENERAL SAFETY REGULATION 11(2)

An employee contemplated in sub regulation (1) shall be a person who has had at least 2 years' experience in the type of building work for which he is to be designated.

#### GENERAL ADMINISTRATION REGULATION 1

"Building work" means any work in connection with:

- (a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling or addition to a building;
- (b) the installation, erection or dismantling of machinery;
- (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, street, runway, sewer or water reticulation system or work on any similar project; or
- (d) the moving of earth, clearing of land or making of an excavation or work on any similar project.

### DESIGNATION

Therefore in accordance with General Safety Regulation 11(1) and (2) and General Administrative Regulation (1) referred to above:

I, ..... DESIGNATED OFFICIAL FOR.....  
do hereby designate ..... as a Building Work Supervisor over his demarcated  
areas of responsibility.....

..... (state demarcation e.g. structure, finishes, etc)for the SITE /

WORKPLACE: **CONTRACT**.....

SITUATED AT: .....

DATE: ..... SIGNATURE: .....

### ACCEPTANCE OF DESIGNATION

I, ..... hereby accept this appointment as a BUILDING WORK SUPERVISOR  
and confirm that I am conversant with the relevant statutory provisions and regulations of the relevant Act in  
regard to the carrying out of building work.

SIGNATURE: .....

DESIGNATION:.....

DATE: .....

### DISTRIBUTION

1. Original displayed at plant division / on site.
2. Copy to central files.

**OCCUPATIONAL HEALTH AND SAFETY ACT 9/96/1993**

**MANAGEMENT**

**DESIGNATION**

Chief Executive Officer with certain duties,

- 16(1) Every chief executive officer as far as is reasonably practicable ensure that the duties of his employer as contemplated in this Act, are properly discharged.
- (2) With derogating from his responsibility or liability in terms of subsection (1), a chief executive officer may assign any duty contemplated in the said subsection, to any person under his control, which person shall act subject to the control and directions of the chief executive officer.
- (3) The provisions of subsection (1) shall not, subject to the provisions of section 37, relieve an employer of any responsibility or liability under this Act.

I, ..... CIVIL ENGINEER for ..... do hereby assign my duties to ..... to ensure that the duties of the employer are carried out.

DATE: .....

SIGNATURE: ..... DESIGNATION: .....

**ACCEPTANCE OF DESIGNATION**

I, ..... hereby accept this and confirm that I am conversant with the requirements of the OH&S Act and agree to carry out the duties as set out for the employer.

DATE: .....

SIGNATURE: ..... DESIGNATION: .....

**DISTRIBUTION**

- 1. Original displayed on site.
- 2. Copy to central files.

## **ANNEXURE B**

### **STANDARDISED / PARTICULAR SPECIFICATIONS**

## STANDARDISED / PARTICULAR SPECIFICATIONS

### SABS 1200 A: GENERAL

#### **PSA 1 MATERIAL (Subclause 3.1)**

All material required for this contract shall bear the official standardization mark.

#### **PSA 2.1.2 Restrictions on Employee Accommodation**

No housing is available for the Contractor's employees, and the Contractor shall make his own arrangements to house his employees and transport them to site.

The Employer will place at the disposal of the Contractor an area to enable him to erect his site offices, workshops, stores, and any temporary housing the Contractor may wish to erect for his personnel. The temporary housing and ablution facilities shall comply with the requirements of the local Authority.

#### **PSA 2.2 CAPACITY OF PLANT AND EQUIPMENT (Clause 4)**

Add as Clause 4.3:

The Contractor shall supply plant and equipment in sound working condition and of adequate capacity to complete the Works well within the period or periods specified or stated in the appendix to the tender.

In addition, he shall have available on the Site adequate standby plant to ensure that operations designed to be executed continuously are not disrupted because of breakdown of any plant provided for such operations.

#### **PSA 3 CONSTRUCTION**

##### **PSA 3.1 DETAILED SETTING OUT (Subclause 5.1.1)**

The Contractor shall be solely responsible for the execution of the works to the correct line and level.

The Contractor shall carefully set out the works, employing a capable surveyor to the lines and levels gleaned from information provided.

The tolerance allowed in setting out shall be 10mm either way.

Work set out by the Contractor shall be checked by the Engineer where after any errors be rectified by the Contractor.

The Contractor shall provide at least three days' notice of such a check to the Engineer. The Contractor shall supply any material and labour required for the control survey work by the Engineer including the supply of and placing the necessary pegs, sight rails, etc.

Any assistance, including checking, rendered to the Contractor by the Engineer shall not be held as relieving the Contractor of his responsibility in this respect. Should any portion of these works

be constructed incorrectly, the Contractor shall at his own expense rectify the work to the satisfaction of the Engineer.

The Contractor shall be held solely responsible for the protection of all benchmarks, reference pegs and level pegs.

The Contractor shall establish at least three benchmarks at selected points.

**PSA 3.2 WATCHING, BARRICADING, LIGHTING AND TRAFFIC CROSSINGS**

**(Subclause 5.2)**

Add the following to this subclause:

The Contractor shall ensure that he complies with all the requirements of the authorities concerned with respect to the safety of the works and labourers, including the provision and wearing of protective clothing. Any negligence or non-compliance of any of these requirements shall be viewed in a serious light and shall be sufficient reason for the Engineer to order the immediate suspension of the total extent of the Works.

The Contractor shall provide for artificial lighting for any part of the Works that may be required for the proper execution of the work.

**PSA 3.3 PROTECTION OF OVERHEAD AND UNDERGROUND SERVICES (Subclause 5.4)**

Add the following to the subclause:

Before commencing any excavation, the Contractor shall verify the position of all known or suspected obstacles by inspection of the site, examination of drawings or, where necessary by the excavation of trial holes. Any damage caused to existing services and works shall be repaired as expeditiously as possible by the Contractor at his own expense, and shall be reported immediately to the Engineer.

Where permanent protective works are ordered by the Engineer, such works shall be valued as a variation. The Engineer will supply the Contractor with such information as may be available concerning obstructions and services, but whilst such information is given in good faith, it shall not relieve the Contractor of any of his liabilities, obligations and risks under the Contract.

The Contractor shall be responsible for any damage to such public services and existing works in the execution of this Contract and shall reimburse the Public Authority or the Owner concerned for any repairs required or compensation for damage awarded.

Any alteration to public services shall be carried out by the Authority concerned.

The Contractor shall provide the necessary assistance during any operations necessary in connection with the removal, alteration or safeguarding of any public service.

The relevant authority and Engineer shall be informed of any damages without delay.

**PSA 3.4 DEALING WITH WATER ON WORKS (Subclause 5.5)**

Add the following to the subclause:

The Contractor shall be responsible for the dewatering of excavations and the full and adequate protection of the works against damage by storm or water from any source whatever. He shall construct all necessary diversion works and drains to deal adequately with and bypass all water and carry out any necessary pumping of water and supply all tarpaulins or other covers which may be required to protect any section of the work during heavy rain or storm together with any other labour work and material which, in the opinion of the Engineer is necessary to keep the work dry and safe at all times.

Full risk and cost of dealing with water shall be borne by the Contractor.

**PSA 3.5 POLLUTION (Subclause 5.6)**

Add the following to the subclause:

The Contractor shall maintain all access roads and the area where the offices, stores and workshops are situated to the satisfaction of the Engineer. It shall be kept damp to limit dust and inconvenience or disturbance to the residents in the neighborhood of the Works to a minimum.

**PSA 3.6 DEGREE OF ACCURACY (Subclause 6.2)**

Delete this subclause and replace with the following:

The Contractor shall construct each of the various parts of the Works to the degree of accuracy specified in the relevant standardized specification.

**PSA 4 TESTING**

The cost of all testing to be carried out by the Contractor in terms of the requirement of the relevant SABS 1200 standards shall be included in the rates for the various work items listed in the Schedule of Quantities. No separate payments shall be made in this regard.

**PSA 5 MEASUREMENT AND PAYMENT**

**PSA 5.1 MEASUREMENT (Subclause 8.1.1)**

Add the following to this subclause:

In no case will any dimensions be allowed or any quantities be included in the measurement for payment which shall exceed the dimensions required by the contract, or as ordered in writing by the Engineer in the case of extra work.

**PSA 5.2 PAYMENT (Subclause 8.2)**

Add the following to this subclause:

The quantities as shown in the Bill of Quantities are estimated quantities and are used for comparing tenders and awarding of the contract. It shall be noted that only the actual work

executed or materials supplied will be measured and paid for, therefore billed quantities may be increased or decreased as allowed for in the General Conditions of Contract.

The entire works shall be measured on completion by the Engineer and paid for at the relevant rates, according to the actual quantity of each item of work executed.

The Contractor shall have no claim for loss of profit on unexecuted works.

**PSA 5.3 MEASUREMENT AND PAYMENT FOR SCHEDULED FIXED-CHARGE AND VALUE RELATED ITEMS (Subclause 8.3.1)**

Add the following to this subclause:

The tendered amount shall include the costs for the premiums of the surety for unused materials on site.

## **SABS 1200 AB: ENGINEER'S OFFICE**

### **PSAB: ENGINEER'S OFFICE**

#### **PSAB 1 MATERIALS**

##### **PSAB 1.1 NAMEBOARDS (Subclause 3.1)**

Add the following to the subclause:

Notwithstanding the provisions of Subclause 3.1 of SABS 1200 AB, the standard name boards complying with the recommendations of the South African Association of Consulting Engineers shall be provided. Details of the name board will be available from the Engineers.

##### **PSAB 1.2 OFFICE BUILDINGS (Subclause 3.2)**

Delete this subclause and replace with the following:

The Contractor shall provide the following furnished offices for the use of the Engineer and the Client. The office shall consist of one room with the following floor area:

Engineers office - 16m<sup>2</sup>

The clear height of the office between floor and ceiling shall be 2,5m minimum. All windows shall be of the type than can be open over the full window area.

The office shall be weatherproof, shall have a concrete floor and shall be provided with a ceiling and a lining to the walls, or equivalent insulation, with an acceptable type of door with a secure lock, and two opening windows of glazed area at least 3m<sup>2</sup>. The office shall be well ventilated and shall be so insulated as to provide comfortable working conditions. The internal furnishings shall include:

- a) one trestle table, 2m long x 1m wide x 0,9m high, with a smooth top;
- b) one table or desk having a top of size at least 1,5m x 0,9m and at least one lockable drawer;
- c) one high stool;
- d) two chairs;
- e) a lockable upright steel cabinet with three shelves or a steel filing cabinet with four drawers;
- f) shelving of total length 3m and of nominal width 300mm;
- g) an acceptable blind on each window,
- h) a wash-hand basin;
- i) acceptable lighting;
- j) provision for heating in winter and cooling in summer;
- k) one conference type steel table with folding legs of size at least 4,0m x 0,9m.
- l) The Contractor shall also supply a toilet for the exclusive use of the Engineer.

**PSAB 1.3 CAR PORTS (New Subclause 3.2 (k))**

The Contractor shall provide two permanent car ports for the use of the Engineer. The car ports shall be so constructed that the vehicles parked under them will at all times be shaded from direct sunlight. The car ports shall be at least 20m<sup>2</sup> in area and shall have a hard stand of crushed stone.

**PSAB 2 SURVEY EQUIPMENT (Subclause 5.5)**

The Contractor shall provide the following survey equipment on the site from the commencement to the completion of the Works:

1. 1 Tachometer capable of reading 20 seconds of arc;
2. 1 Engineer's level and level staff;
3. 2 Tachometer staffs graduated metrically;
4. 1 Steel tape of length 30m.

The tachometer may be shared by arrangement between the Contractor and the Engineer's Representative, but the remaining instruments shall be provided for the exclusive use of the Engineer's Representative. The Contractor shall keep the equipment continuously insured against any loss, damage, or breakage and he shall indemnify the Engineer and the Employer against any claims in this regard. Upon completion of the whole of the Works, the ownership of the equipment shall revert to the Contractor.

The Contractor shall maintain the equipment in good working order and keep it clean throughout the contract period.

**PSAB 3 SURVEY ASSISTANTS (Subclause 5.5)**

The Contractor shall make available to the Engineer two suitably trained survey assistants for use on and about the SITE at all reasonable times for the duration of the Contract.

## **SABS 1200 C: SITE CLEARANCE**

### **PSC 1 MATERIALS (Clause 3)**

#### **PSC 1.1 DISPOSAL OF MATERIAL (Subclause 3.1)**

Add to this subclause :

Material obtained from clearing and grubbing and from the demolition of structures shall be disposed of in a borrow pit indicated by the Engineer and shall be finished to the satisfaction of the Engineer.

### **PSC 2 CONSTRUCTION (Clause 5)**

#### **PSC 2.1 INDIVIDUAL TREES (Subclause 5.2.3.2)**

Add to this subclause :

Should the Contractor remove or damage any tree marked to be preserved, a penalty of R200,00 per tree shall be payable.

## **SABS 1200 DA: EARTHWORKS (SMALL WORKS)**

### **PSDA 1 CLASSIFICATION OF EXCAVATED MATERIAL (Subclause 3.1.2)**

Delete this subclause and replace with the following:

Distinction shall be drawn, for payment purposes, between excavation in hard and soft material. All excavation for the foundations of structures shall be classified in accordance with the following classification.

#### **Hard Material**

Boulders of 0,5 cubic meter or more in volume;

or

Material which cannot be excavated except by drilling and blasting or the use of pneumatic tools or mechanical breakers.

#### **Soft Material**

All material not classified as hard material shall be classified as soft material.

The Engineer shall rule under which one of the above categories any excavation shall be classified and paid for.

### **PSDA 2 FREEHAUL (Subclause 5.2.6.1)**

The freehaul distance within which the Contractor will be required to move material without separate compensation shall be 7,0 km. Overhaul will be paid for the moving of material beyond that distance.

### **PSDA 3 MEASUREMENT AND PAYMENT (Subclause 8)**

#### **PSDA 3.1 BASIC PRINCIPLES (Subclause 8.1.1)**

Change the following in this subclause:

The freehaul distance will be 7,0 km.

## **SABS 1200 DB: EARTHWORKS (PIPE TRENCHES)**

### **PSDB 1 CLASSIFICATION OF EXCAVATED MATERIAL (Subclause 3.1)**

Distinction shall be drawn, for payment purposes, between excavation in hard and soft material. All excavation for pipe trenches shall be classified in accordance with the following classification.

#### **PSDB 1.1 SOFT EXCAVATION**

Soft excavation shall be excavation in all existing fill material as well as excavation in material which can be efficiently removed by any of the following plant.

A bulldozer having a mass, including the mass of the ripper if fitted of 35 ton and having a flywheel power of approximately 220 kW.

#### **PSDB 1.2 HARD EXCAVATION**

Hard excavation shall be excavation in material, which cannot be efficiently ripped by plant as described in PSDB 1.1.1. This excavation generally includes material such as formation of unweathered rock which can only be removed after blasting or boulders of 0,5 m<sup>3</sup> or larger in volume.

The Contractor shall be at liberty to use any method he wishes to excavate any class of material, but the method of excavation shall, however, not dictate the classification of the excavation.

The Engineer shall decide under which one of the above classes any excavation shall be classified and paid for. In the first instance the classification shall be based on inspection of the material to be excavated and the method of excavation proposed by the Contractor. In the event of disagreement between the Contractor and the Engineer, the Contractor shall, if required, make available such mechanical equipment as specified in order to test the reasonable removability or otherwise of the material. The decision of the Engineer as to the classification shall thereafter be final and binding.

The Contractor shall immediately inform the Engineer as and when the nature of the material being excavated changes to the extent that a new classification for further excavation is warranted. Failure on the part of the Contractor to timeously advise the Engineer shall entitle the Engineer to classify, in his sole discretion, such excavation as may have been executed in material of a different nature.

#### **PSDB 1.3 SOILCRETE**

The tendered rate shall include payment for the construction of the soilcrete complete and according to specifications including Portland Cement used at a rate of 7% of the dry density of the soil used and the placing of rocks to support the soilcrete at the end of the trenches.



### **PSGA 3 CONCRETE (Clause 5)**

#### **PSGA 3.1 STRENGTH CONCRETE (Subclause 5.4.1.5)**

Add to this subclause :

The following classes of concrete shall be used in the following positions:

Class 15/20           Blinding, mass concrete, encasement of pipes, etc.

Class 20/20           Strip foundations for brick walls and mass foundation.

Class 30/20           All structural concrete, including concrete floors and paving.

The Contractor shall design trial mixes in accordance with SABS 0100, Part II 1980, Appendix B. The target strength of the trial mix shall be determined using K equal to 1,7 and a standard deviation 5MPa for a "good" degree of site control. The average 28-day cube strength of the trial mix shall equal or exceed the target strength. The Contractor shall submit the trial mixes and the 7 and 28 day test results to the Engineer for approval. No concreting may proceed until the trial mixes have been approved.

#### **PSGA 3.2 READY MIXED CONCRETE (Subclause 5.4.1.6)**

Delete the subclause and replace with the following:

Ready-mixed concrete will be allowed on the site, provided the nominal mix proportions given in SABS 1200 GA Clause 8.4.1, apply. The prior approval of the Engineer is however required.

#### **PSGA 3.3 BATCHING (Subclause 5.4.2.3)**

##### **Aggregates**

Add to this clause.

Volume batching is permitted for concrete pours of up to 5,0m<sup>3</sup>. All greater quantities shall be weigh batched to an accuracy of 2%.

#### **PSGA 3.4 MIXING (Subclause 5.4.3(e))**

Delete this subclause and replace with the following:

(e)       Concrete shall be placed within thirty minutes of the start of mixing.

#### **PSGA 3.5 CONCRETE SURFACES (Clause 5.4.8)**

Add the following:

Concrete surface finishes required shall be indicated on the drawings and shall be classified as follows:

**a)       Rough :** This shall comprise a lightly ridged surface as struck off with a tamping board. Degree of Accuracy III is required. This finish shall provide a good key for subsequent finishing with a screed or bituminous carpet.

- b) **Smooth wood float** : The surface shall be wood floated to a uniform surface free of trowel marks and to Degree of Accuracy II.
- c) **Smooth steel float** : The surface shall be accurately struck off and floated and finished with a steel float to a smooth and uniform surface, free of trowel marks, to Degree of Accuracy I.

Rubbing with a carborundum stone will be permitted but no plastering to correct imperfections will be permitted.

### **PSGA 3.6 CONSTRUCTION JOINTS (Clause 5.4)**

Add to this clause :

Concreting shall be carried out continuously up to the locations where joints are shown on the drawings or up to approved locations. Joints shall be constructed in accordance with the details shown on the drawings.

The Contractor shall continue concreting through meal breaks or after normal working hours in order to complete work up to a construction joint and no extra payment shall be made to the Contractor for working overtime.

If, because of an emergency (such as a breakdown of the mixing plant or the occurrence of unsuitable weather), concreting has to be interrupted, concrete shall be finished off at the place of stoppage in the manner that will least impair the durability, appearance, and proper functioning of the concrete.

### **PSGA 3.7 JOINT SEALING (Clause 5.4)**

Add to this clause :

Joints shall be formed as indicated on the drawings, using bitumen impregnated fibre board or closed cell expanded polyethylene compressible joint filler complying with AASHTO Specification M153.

Joints shall be sealed as indicated on the drawings, using rubberised bitumen joint sealant for concrete pavement complying with BS5212. Where indicated on the drawings joint sealant shall be backed by a Polythene Tape bondbreaker.

The use of the joint former and joint sealing materials and all joint sealing shall be carried out by workmen experienced in the use of the materials and shall be strictly in accordance with the instructions and recommendations of the manufacturer and supplier.

### **PSGA 3.8 MECHANICAL VIBRATION (Subclause 5.4.6.3)**

Delete this subclause and replace with the following:

Only mechanical vibrations shall be accepted for the compaction of the concrete. Any other method of compaction shall only be accepted with the written approval by the Engineer.

**PSGA 3.9 WATERTIGHT CONCRETE (Subclause 5.4.8.2)**

Add to this subclause:

Manholes and the stormwater channel shall be watertight and no water leakage will be allowed at the joints.

**PSGA 4 TOLERANCES (Clause 6)**

**PSGA 4.1 GENERAL (Subclause 6.1.1 and 6.4)**

All concrete, excluding blinding and mass concrete, shall comply with the specified tolerances, except where a different tolerance is shown on the drawings, in which case the specification on the drawing shall prevail.

**PSGA 4.2 TOLERANCES (Clause 6.4)**

Degree of accuracy required is : (II).

**PSGA 5 TESTS (Clause 7.1.1)**

**PSGA 5.1 FACILITIES AND FREQUENCY OF SAMPLING (Clause 7.1.1)**

**Facilities**

Add the following:

The Contractor shall be fully responsible for sampling and testing the concrete at the frequency specified.

**PSGA 5.2 FREQUENCY OF SAMPLING (Clause 7.1.2.2)**

Add the following:

At least one sample sufficient for 3 cubes and a slump test shall be taken from each day's casting and from at least every 20m<sup>3</sup> of concrete of each grade placed. More frequent slump tests shall be taken should the consistency of the concrete be seen to vary.

**PSLB: BEDDING (PIPES)**

**PSLB 1 MATERIALS (Clause 3)**

**PSLB 1.1 BEDDING (Subclause 3.3)**

Delete this subclause and replace with the following:

Bedding for rigid pipes shall be as for Class C (see Drawing LB-1) and bedding for flexible pipes shall be selected granular material and selected fill material (see Drawing LB-2) except where shown otherwise on the drawings.

Bedding cradle for Class C bedding shall be of selected granular material (see 3.1)

The material for the selected fill blanket shall in all cases comply with the requirements of 3.2.

**PSLB 1.2 SUITABLE MATERIAL NOT AVAILABLE FROM TRENCH EXCAVATIONS (Subclause 3.4.2)**

Change the freehaul distance in this subclause from 0,5 km to 7,0 km.

**PSLB 2 MEASUREMENT AND PAYMENT**

**PSLB 2.1 FREEHAUL (Subclause 8.1.6)**

Change this subclause to the following:

The freehaul distance is 7,0 km.

**PSQ BORROW PITS AND BORROW MATERIALS**

**PSQ 1 SCOPE**

This section covers the work involved in obtaining borrow materials for work under this contract, including negotiations with owners of the land on which borrow areas are situated, clearing the site, stripping and disposing of excess overburden, excavating selected material for use on the Works, and finishing-off the borrow areas.

**PSQ 2 NEGOTIATIONS WITH OWNERS AND AUTHORITIES**

The Contractor shall, before entering private property for the purpose of opening borrow pits, constructing access roads, temporarily occupying certain land or inspecting the areas concerned, settle all claims with respect to royalties, or other matters to which the owner may be entitled to.

**PSQ 3 PROCURING BORROW MATERIALS**

**a) General**

The Contractor shall make his own arrangements for obtaining borrow materials which shall comply with the requirements of the specification for whichever purpose the material is intended.

**b) Borrow pit**

Should, at any time during construction, it appear that the quality or quantity of material available in a borrow pit be insufficient, the Contractor shall utilize other borrow areas obtained by him and approved by the Engineer.

**c) Use of borrow materials**

The decision as to which source of supply the Contractor shall operate from at any time shall rest with the Engineer, and the Contractor shall at any stage of the work operate from the source most suitable, having regard to the quality and quantities of the materials available, and the ultimate cost to the Employer. No payment will be made for moving the Contractor's plant from one location to another.

The Contractor shall submit test results to the Engineer, 14 days before the start of the operations, in sufficient detail to satisfy him that the quality and quantity of the material available in the proposed borrow area is acceptable for the intended use, all at the Contractor's own expense.

Approval of borrow pits or borrow areas shall apply only to those portions of the pit or area from which acceptable material may be obtained or produced. The Contractor shall conduct his operations in any approved pit or borrow area or portions thereof so as to produce acceptable material.

The Contractor shall plan the exploitation of the borrow pits in such a manner that the various materials excavated may be selected and either loaded directly for use or stockpiled in the borrow area for later loading.

#### **PSQ 4 FINISHING-OFF BORROW AREAS**

On completion of his operations in a borrow area the Contractor shall reinstate the entire area so as to blend in with the surrounding area and to permit the re-establishment of vegetation. For this purpose the borrow area shall be shaped to even contours with no slopes steeper than 1 in 3, except where this may be done, with the Engineer's permission, in rocky material.

All material in and around the borrow area, whether spoil from roadbuilding operations, excess stockpiled material, oversize material left in the borrow pit, material resulting from clearing and grubbing operations and excess overburden, shall be used or disposed of as directed by the Engineer. Material not capable of supporting vegetation shall be buried and used in shaping the borrow area and be subsequently covered with soft material. All available soft material shall be spread evenly to the thickness directed and where sufficient material is not available for this purpose to cover the entire area, the remaining portions shall be scarified along the contours so as to avoid undue erosion.

All haul roads shall be obliterated and the surface scarified, earthbanks constructed to prevent erosion and all damaged fences and other structures reinstated.

The shaping and finishing-off of the borrow pit shall be done in such a way that the borrow pit is properly drained whenever practicable and, where required, the Contractor shall place earthbanks to divert any surface water away from the borrow area.

The finishing-off of any borrow pit shall be to the entire satisfaction of the Engineer and the Contractor shall submit to the Engineer a signed certificate from the landowner stating that he is fully satisfied with the finishing-off of any borrow area.

#### **PSQ 5 MEASUREMENT AND PAYMENT**

##### **a) Borrow material**

The rates tendered for the obtaining, procuring and furnishing borrow material shall not be payable directly, but shall be considered as a subsidiary obligation of the Contractor covered under the contract prices paid for the various items of work in which the materials are used, as provided in these Specifications.

Obtaining procuring and furnishing borrow material shall include full compensation for all obligations, expenses, operations as well as all investigations, supervision, labour, plant, equipment, tools and incidentals necessary thereto, including all such expenses as may be necessary to control test all materials, to drain and protect borrow areas and to complete all negotiations with and payment to landowners as specified as well as the final shaping and finishing-off of the borrow pit.

## **PARTICULAR SPECIFICATION PSWM**

### **PSWM BUILDING WORK (Minor Work)**

#### **PSWM 1 SCOPE**

This specification covers the supply of material and the construction of brickwork, waterproofing, carpentry and joinery, ironmongery metalwork, plumbing and drainage, as required and described on the drawings and in the bill of quantities.

#### **PSWM 1.1 GENERAL**

##### **PSWM 1.1.1 SABS Specifications and codes of practice**

Reference in this document to South African Bureau of Standards specifications and codes of practice shall be deemed to be references to the latest issues of such specifications and codes, as may be amended from time to time. Where possible, all articles, materials or items described as conforming to the SABS specifications must bear the SABS mark.

#### **PSWM 1.2 MANUFACTURERS' INSTRUCTIONS**

Unless the Engineer otherwise directs, all materials shall be used, mixed, applied, fixed, etc. strictly in accordance with their manufacturers' printed instructions.

#### **PSWM 1.3 MATERIALS AND WORKMANSHIP**

Materials shall be of the best quality and all work shall be done well and to the entire satisfaction of the Engineer who shall inspect the works.

The terms "approved" and "directed" shall mean the approval and direction of or by the Engineer.

#### **PSWM 1.4 SAMPLES**

The contractor shall furnish without delay such samples as may be called for by the Engineer, who may reject all materials and workmanship not corresponding with the approved samples.

#### **PSWM 1.5 HANDING OVER**

Rates shall include for protecting finishings, facing materials, components, fittings, equipment, etc., from staining or damage, and for handing over the works including any existing structures etc., affected by the works, in a clean and perfect state to the satisfaction of the Engineer.

### **PSWM 2 EARTHWORKS**

See SABS 1200 DA and PSDA clauses.

### **PSWM 3 CONCRETE, FORMWORK AND REINFORCEMENT**

See SABS 1200 GB and PSGB clauses.

### **PSWM 4 BRICKWORK**

#### **PSWM 4.1 CEMENT**

Cement shall be as described in PSGB and shall be of normal setting quality.

#### **PSWM 4.2 SAND**

Sand shall be clean pit or other approved sand, free from soft particles, clay, animal or vegetable matter, washed where necessary, and screened through a 2,4mm mesh sieve.

#### **PSWM 4.3 CEMENT MORTAR**

Cement mortar, unless otherwise specified, shall be composed of 1 part by volume of cement and 5 parts by volume of sand.

The material shall be mixed dry until of uniform colour, then water added and the mixture turned over until the ingredients are thoroughly incorporated.

Cement mortar shall be produced in such quantities as can be used before commencing to set, as no cement mortar that has once commenced to set shall be used in any way.

Care shall be taken in mixing cement mortar to remove from the mixing-machine or platform any old mortar that has already set, as such mortar shall not be incorporated in any new batch.

#### **PSWM 4.4 BRICKWORK**

Brickwork, wherever practicable and not otherwise specified, shall be built in stretcher bond. No false headers shall be used, and none but whole bricks employed, except where legitimately required to form bond.

The brickwork, unless otherwise specified, shall be built in cement mortar.

The bricks shall be laid on a solid bed of mortar and all joints thoroughly grouted up solid throughout the whole width of each course.

The brickwork shall be carried up in a uniform manner, no one portion being raised more than 1,2m above another at one time.

The bricks shall be well saturated with water, in the stack or dump, approximately 2 hours before being used. The tops of walls left off shall be well wetted before work is recommenced.

All necessary openings for pipes, etc., shall be formed or left and made good after pipes etc., have been fixed in position.

Where indicated, walls shall be taken up two courses above panelled ceilings in the same mortar as the wall below and cut between ties.

#### **PSWM 4.5 WIRE TIES**

Wire ties shall be of either the single wire type or the Modified P.W.D. type galvanised steel wire ties with a minimum diameter of 2,8mm and shall comply with the requirements of SABS 28, spaced not more than 1m apart alternately to every third course of brickwork and shall be of sufficient length to allow not less than 75mm of each end to be built into brickwork.

#### **PSWM 4.6 BRICKWORK IN THICKNESSES**

Walls built in two or three thicknesses shall be tied together with and include wire ties as specified above.

#### **PSWM 4.7 BEAM FILLING**

Beam filling, unless otherwise specified, shall be of half-brick thickness, cut in between roof timbers and carried hard up to the underside of roof coverings, and flushed up in mortar.

#### **PSWM 4.8 MORTAR JOINTS**

Mortar joints to brickwork generally shall be not less than 5mm nor more than 10mm in thickness.

The joints of brickwork which is to receive plaster, tiling or similar finishing's, shall be raked out whilst the mortar is soft to form an adequate key for the plaster or mortar backing.

#### **PSWM 4.9 RATES**

Rates for brickwork are to include for all rough and fair square cutting, forming of reveals and plumbing of angles, wire ties as specified (and building them into brickwork or fixing them inside casing to concrete work and embedding them in concrete and building into brickwork), building of brickwork up to underside of concrete beams and slabs or against columns, door linings, etc., preparation of faces of brickwork to receive plaster or bagging or similar finishes, concrete filling to cavities of walls and chases and grooves for horizontal slab edges.

#### **PSWM 4.10 BRICKWORK REINFORCEMENT**

(In the widths 50, 75, 150 and 230mm)

Brickwork reinforcing mesh shall be of hard-drawn steel comprising two main wires, each with a diameter of 3,55mm, spaced 50, 75, 150 or 230mm apart for general wallings and 75mm apart for brick lintels, and cross wires, each with a diameter of 2,8mm, spaced not more than 300mm apart, welded to the main wires.

The reinforcing wires and rods shall be cut to lengths as required, lapped at least 150mm at end joints, and for a length equal to the width of the widest reinforcing mesh at angle intersections, be evenly spaced in the brick joints, with the outer wires or rods having at least a 20mm cover from face of brickwork.

**PSWM 4.11 SUNDRIES**

**PSWM 4.11.1 Bed plate**

All plates shall be bedded in 1 to 5 cement mortar.

**PSWM 4.11.2 Building in**

Ends of timbers, holdfasts, cramps, gratings, air-bricks, dowels, etc., shall be built in in cement mortar.

Door and window frames and the like shall be set up in position for building in and securely strutted to prevent distortion whilst the brickwork, lintels, etc., are being built.

Pressed steel door frames shall be grouted in solid at back with cement mortar as the work proceeds.

Wood slips, fixing bricks, hoop iron roof ties, etc., shall be built in as the work proceeds.

All door, window and similar frames shall be bedded and pointed.

Steel door and window frames shall be carefully pointed all round and made perfectly watertight.

Rates shall include for building lugs into brickwork and grouting up solid behind frame in wall or abutting side of wall or columns in cement mortar.

**PSWM 4.11.3 Securing of roofs**

Roof trusses or rafters shall be fixed to walls with ties of 1,6mm thick galvanised hoop iron, 30mm wide, built 750mm deep into brickwork, or embedded 300mm deep into concrete, adjacent to each foot of each truss or rafter where it bears on the plate and well lapped and spiked to plates and wrapped around and spiked to roof trusses.

**PSWM 4.12 PROTECTING AND CLEANING DOWN BRICKWORK etc.**

Angles of face brickwork, reveals, etc. liable to damage, shall be covered up and protected during the progress of the remaining work, and any damage done shall be made good to the satisfaction of the Engineer at the contractor's cost.

Face brickwork and brick and tile sills, copings, etc., shall be cleaned down as the work proceeds, and surfaces liable to be soiled by mortar or plaster splashes during the progress of the remaining work shall be covered with paper pasted on, or by other approved means. Upon the completion of the works the coverings shall be removed and the surfaces again cleaned down to the satisfaction of the Engineer.

Any detergent or other materials used in the cleaning down of face brickwork, etc., shall be of such a nature that they will not harm adjoining paint and other finishings in any way.

All tile and other pavings shall be thoroughly cleaned off after laying to remove all traces of mortar and other substances, covered up and protected from damage during the progress of the works, and again cleaned off on completion of the work.

## **PSWM 5 WATERPROOFING**

### **PSWM 5.1 DAMP-PROOF COURSE**

The horizontal damp-proof course, unless otherwise specified, shall be of bituminous sheeting complying with the requirements of

- a) SABS Specification 248 as Type GH or Type FV sheeting specified therein, or
- b) SABS Specification 92 as Type 140 sheeting specified therein;

Or, alternatively, shall be of polyethylene sheeting containing approximately 2,5% by mass of even-dispersed carbon black, and shall have plain surfaces and a thickness of at least 0,45mm or embossed surfaces and a mass of at least 0,34kg per square meter and a nominal thickness of 0,38mm as Type B complying with SABS Specification 952.

The damp-proof course shall be the full width of superstructure walls and shall be laid without longitudinal joints. At end joints, angles and intermediate junctions the sheeting shall be lapped 150mm.

Under all window sills exposed to the weather, the sheeting must be laid on the brickwork in the first joint immediately below the sill and turned up with an easy bend and tucked in under the window frame.

Laps in damp-proof sheeting shall be sealed with approved bituminous solution applied over the whole area of the lap.

Care shall be taken not to tear or otherwise damage the sheeting.

## **PSWM 6 CARPENTRY AND JOINERY**

### **PSWM 6.1 TURNING PIECES AND CENTRES**

**Turning pieces and centres** to soffits over openings in walls (except where pressed steel door frames and frames with supports underneath are used) shall be of suitable substantial construction and left in for not less than 14 days.

Rates shall allow for use and waste.

### **PSWM 6.2 TREATMENT OF TIMBER AGAINST INSECT PESTS**

Softwood shall be treated to combat and prevent the spread of certain insect pests in accordance with Government Gazette Notice No. R.451 of 28 March 1969, and any amendments thereto, **in all areas defined in the aforementioned Notice** and in any other areas as may be defined. Proof of treatment shall be lodged with the Engineer prior to the use of any timber in the works.

### PSWM 6.3 STRUCTURAL TIMBER

Structural timber, unless otherwise specified, shall be of South African softwood (pine) complying with the requirements of SABS Specification 563, and of merchantable grade, and shall be marked as laid down in the specification.

Roof battens and other structural timbers not less than 50mm or more than 65mm in width and not less than 38mm or more than 50mm in thickness shall be of South African softwood (pine) complying with the requirements of SABS Specification 653.

As far as practicable, timber ordered shall be of the dimensions required for use and shall not be sawn into smaller cross-sectional sizes as this may result in distortion of the timber and a change in the grade and dimensional tolerances.

Wrot structural timber, or any part of a structural member where wrot, shall be free of any edges or other defects which will mark the appearance of the timber.

Timbers generally shall be in single lengths and jointing of timbers will only be permitted when the required length is unobtainable. Only the absolute minimum number of joints to obtain a particular length will be permitted, and such joints are to be evenly spaced along the length of the timber.

Structural timbers, such as truss members, may be jointed with either splice joints formed of two timber splices of the same sectional size as the timber to be jointed and each 710mm long placed on either side of the member and bolted together with four 10mm diameter mild steel bolts each with two washers, or with finger joints.

Finger-jointed timber shall be manufactured in accordance with SABS Code of Practice 096. The joints in timbers used for general roof construction and other components, **where the timber will not be exposed externally**, shall be made with BR-type adhesive and joints in timbers **for external timber structures** shall be made with WBP-type adhesive, both types complying with the requirements of BS 1204. The timbers shall be marked with the letters "FJ", in **black** for timbers where BR-type adhesive is used, and in **red** for timbers where WBP-type is used; the letters shall be at least 25mm high.

### PSWM 6.4 LENGTH OF TIMBERS AND METHODS OF JOINTING

Plates, purlins, battens, laths, slats, etc., shall be in single lengths, but where this is not possible the end joints shall be formed as described below. The jointing of plates, battens, etc., at junctions and angles shall also be formed as stated below, viz:

#### a) Plates

Roof plates shall be halved at joints and well spiked together, and also at junctions and angles.

#### b) Purlins

Joints in purlins will only be allowed over points of support and are to be splayed and well spiked together and to rafter.

**c) Battens, laths, slats, etc.**

Sawn battens, laths, slats, etc., shall be butt-jointed at heading joints and angles, and wrot battens, laths, slats, etc., shall be splayed at heading joints and mitred at angles, all over points of support.

**PSWM 6.5 RATES**

All timber is measured net as fixed, no allowance being made for additional timber required in jointing, nor shall bolts, bolting or any other labour or material required in jointing be measured separately. Rates are to include for laps, joints, etc. and all cutting and waste, and for hoisting and fixing in position.

**PSWM 6.6 DIMENSIONS OF SOUTH AFRICAN SAWN SOFTWOOD**

The tolerance by which "actual" dimensions may vary from the "nominal" dimensions specified or stated on the drawings of South African sawn structural softwood, shall be as laid down in SABS Specification 563.

**PSWM 6.7 WOOD PRESERVATIVE**

Roof plates and ends of timbers built into walls, in areas where all timbers are not treated against infestation by insect pests, shall be given two good brush coats of one of the under-mentioned wood preservatives, which shall comply with the relevant requirements of the SABS specification shown in brackets after the name of the preservative, viz:

- a) Metallic naphthenates (SABS 38)
- b) Pentachlorophenol (SABS 42)
- c) Pentachlorophenol - zinc naphthenate (SABS 565)
- d) Wood, preserving creosotes (SABS 538/9 and 490/4)

The timbers shall be coated with the preservative before being fixed in position.

The exposed areas of any timbers cut after the preservative has been applied shall also receive two coats of the preservative.

**PSWM 6.8 ROOF BATTENS AND PURLINS**

Battens and purlins shall be of the sizes as specified and shall be in accordance with SABS 653 if not more than 63mm wide and 50mm thick, and in accordance with SABS 563 if more than 63mm wide and 50mm thick, twice skew nailed to roof timbers at centres specified ranging perfectly straight and square to roof.

**PSWM 6.9 ROOF COVERING**

Rates for metal sheet covering to roofs shall include for all straight cutting and waste.

## PSWM 6.10 METAL ROOFING SHEETS

See SABS 1200 HC and PSHC clauses.

## PSWM 7 PLUMBING AND DRAINAGE

### PSWM 7.1 REGISTERED PLUMBERS/DRAINLAYERS

Only registered plumbers and/or drain layers shall be employed on any plumbing and/or drainage work.

### PSWM 7.2 PIPES AND FITTINGS

Pipes and fittings shall comply with the following specification and requirements:

	Pipes and Fittings	Specification	Class or Type
PSWM 7.2.1	Steel pipes and fittings up to 150mm nominal bore and suitable for screwing to ISO R7 pipe threads	SABS 62	Medium class, galvanised

### PSWM 7.3 JOINTS Joints of pipes not covered under PSW 13.3 shall be as follows:

	Pipe	Joint
PSWM 7.3.1	Galvanised mild steel	Joints of screwed galvanised steel sockets or bolted cast iron flanges Screwed joints with lead paint and hemp to cold water and waste pipes Screwed joints with graphite and hemp to hot water pipes Flanged joints shall be bolted and provided with rubber gaskets and the flanges shall be screwed to the pipes
PSWM 7.3.2	Polyethylene and unplasticised polyvinyl chloride pipes	In accordance with SABS 0112

#### Joints between pipes of different materials shall be as follows:

Rubber jointing rings shall comply with SABS 974 and polypropylene fittings shall comply with BS 65 and 650 (Part 2).

Descriptions for jointing of new to existing pipes shall be deemed to include for searching for the existing pipe, exposing if necessary, cutting into, jointing and necessary fittings.

## PSWM 7.4 FIXING OF PIPES

Pipes shall be fixed as follows:

PSWM 7.4.1	Galvanised mild steel (except those stated in PSW 13.4.2)	To walls with galvanised mild steel brackets (School Board Pattern) for pipes up to 80mm diameter and with galvanised cast iron hingerholderbats with brass pins or bolts for pipes more than 80mm diameter; both types with tails cut and pinned in 1:3 cement mortar
		To woodwork with screw-on type galvanised mild steel clips
PSWM 7.4.2	Cast iron and galvanised mild steel for soil, waste and vent pipes	To walls with hinged cast iron holderbats with brass bolts and with tails cut and pinned in 1:3 cement mortar To woodwork with screw-on type galvanised mild steel clips
PSWM 7.4.3	Polyethylene and unplasticised polyvinyl chloride	To walls, woodwork, etc with patented PVC finished steel clips and holderbats as supplied by the manufacturer of the pipes and fixed in accordance with SABS 0112

**PSWM 7.4.4** Descriptions of cutting chases for pipes in concrete, brickwork, etc. shall be deemed to include for making good in 1:3 cement mortar after the pipes have been fixed.

## PSWM 7.5 PIPES CAST IN OR BUILT IN

Where pipes are described as "cast into concrete" or "built into brickwork" the pipework shall be done as the work proceeds. Descriptions of pipes built into brickwork shall be deemed to include for necessary cutting.

## PSWM 7.6 PIPES LAID IN GROUND

Descriptions of pipes laid in ground shall be deemed to include for excavation.

### PSWM 7.6.1 Water pipes

Water pipes, gas pipes, etc. laid in ground shall be at least 400mm deep below the finished surface.

### PSWM 7.6.2 Drain pipes

Polyethylene and unplasticised polyvinyl chloride drain pipes shall be laid in accordance with SABS 0112 and all other drain pipes in accordance with SABS 058 (Class D beds). The undermentioned requirements shall in addition also be applicable to the laying of drain pipes.

Soft or loose patches in drain trenches as well as excavations taken out too deep shall be filled in with selected soil and rammed.

Descriptions of drain pipes in ground shall, if required by local regulations, be deemed to include for laying barrels of pipes or part thereof on concrete bedding in accordance with SABS 058 (Class A beds).

Backfilling to sides and up to 300mm above plastic pipes shall be free from stone or hard substances which will not pass a 10mm mesh.

## **PSWM 7.7 PIPING**

Descriptions of piping shall be deemed to include for short lengths, cutting, jointing, running joints and fixing. Descriptions of channels, drains, discharge pipes, etc. shall in addition be deemed to include for fixing and/or laying to even falls.

## **PSWM 7.8 CLEANING EYES**

Cleaning eyes shall consist of cast iron frames and lids with letters "CE" (or "SO") cast in lids.. The lids shall be set in tallow and secured with non-ferrous metal screws. Frames shall be jointed with 1:2 cement in concrete taken up to ground level finished on exposed faces with 1:3 cement plaster with angles rounded and fitted with 300 x 300 mm standard removable cast iron cover and frame, with the frame cast in concrete.

Descriptions of sanitary fittings shall be deemed to include for setting up, building in, bolting or screwing in position, couplings, coupling up and jointing to pipe work.

Joints between fittings and pipe work shall be screwed unless otherwise described hereunder:

## **PSWM 7.9 CAST CONCRETE WASH TROUGHS**

Reinforced precast concrete wash troughs shall be in two sections with sloping front with ribbed rubbing surface, finished smooth on exposed faces and with top edges and inner angles rounded. Each section shall be fitted with 40 mm diameter outlet coupling. Wash troughs shall each be supported on two reinforced cast concrete base pieces finished smooth, and connected firmly to the toilets structure with raw bolts.

## **PSWM 7.10 GLAZED CERAMIC SANITARY FITTING**

Washdown closet pans, shall comply with SABS 497 and be provided with smooth finished injection moulded polypropylene seats and hinged lids, fixed with non-ferrous bolts.

## **PSWM 7.11 INSTALLATION OF SANITARY FITTINGS**

Sanitary fittings shall be installed as follows:

### **PSWM 7.11.1 Cast concrete wash troughs**

Cast concrete wash troughs shall be bedded on top of base pieces which shall be bedded on floors with 1:3 cement mortar. It shall be furthermore firmly fixed to the toilet wall with 6mm diameter expanding bolts.

### **PSWM 7.11.2 Washdown closet pans**

Washdown closet pans shall be bedded on floors 1:5 cement mortar. Cisterns shall be fixed to walls with 6 mm diameter expanding bolts.

## **PSWM 7.12 HOLES FOR PIPES, etc.**

Descriptions for holes through walls, ceilings, floors, etc. for pipes, holderbats, etc. shall be deemed to include for making good.

### **PSWM 7.13 TESTING**

The whole of the drainage system shall be tested by means of air pressure or water in accordance with SABS 0587. The contractor shall provide all the necessary testing apparatus, expanding plugs, stoppers, water, smoke composition, and any other materials that may be required, and all labour.

Should the drainage system fail to withstand the tests all defects causing such failure shall be made good at the contractor's own expense and the tests repeated until the whole of the work is shown to be thoroughly sound and tight, and to the entire satisfaction of the Engineer.

In making good, all defective parts shall be carefully cut out and properly replaced with new parts. No patching up of pipes, joints or connections will be allowed.

### **PSWM 8 PAINTING**

All metal surfaces being painted shall be cleaned of all rust, scale and dirt by scraping or by means of steel wire brushes; also, all oil and grease shall be removed and a perfectly clean surface obtained. If necessary, the surface shall be degreased, immediately before applying the priming coat, by the use of a suitable grease-removing solvent. Any salt deposits on the metal surfaces as may occur in an industrial or marine atmosphere shall be removed by the use of a suitable detergent and the surfaces then thoroughly rinsed and allowed to dry.

New galvanised metal surfaces and surfaces of all non-ferrous metals, which are to be painted, shall be cleaned down as above and given one coat of wash primer (metal etch primer) complying with the requirements of SABS Specification 723.

Protective coatings on new galvanised metal surfaces, applied by the manufacturers to prevent storage stain and white rust, shall be completely removed by the use of a suitable cleaning agent and the surfaces thoroughly rinsed and allowed to dry, before the surfaces are primed or painted.

When rust on metalwork has been cleaned off, the portions affected shall be treated with an approved rust inhibitor.

#### **PSWM 8.1 PRIMING**

Wood, metal and other surfaces normally primed before being painted shall be prepared and primed as before described in readiness to receive the paint system specified.

## **PSWM 8.2 PAINTS, etc.**

All materials for paintwork for which South African Bureau of Standards specifications have been published shall comply with the requirements of such specifications. Materials for paintwork for which no SABS specifications have been published shall be of a brand and manufacture approved by the Engineer.

All materials for paintwork must be brought onto the site in unopened containers and no adulteration will be allowed.

Undercoats for paintwork shall be as supplied by the manufacturer of the paint being used for the finishing coat.

Paints, etc., shall be suitable for application to the surfaces to which they are to be applied, and those used externally shall be of exterior quality or suitable for exterior use.

If necessary, paints, etc., shall be strained free from skins and similar impurities immediately before application.

The various primers, undercoats, paints and distempers shall comply with the requirements of the specifications quoted hereunder and shall be of the type or grade stated, viz:

### **PSWM 8.2.1 Primers**

*Dip or spray application (red oxide zinc chromate)*

For steel windows, doors, doorjamb, and other articles normally dip or spray-primed in the manufacturer's works: SABS Specification 909.

*Brush application (Zinc chromate)*

For all metal surfaces primed on site and then painted: SABS 679 Type I.

### **PSWM 8.2.2 Undercoats**

For all surfaces under *high gloss, oil gloss, flat and eggshell* finishing paints:

SABS 681 Type II.

### **PSWM 8.2.3 Paints**

#### **PSWM 8.2.3.1 High gloss**

SABS 630, Grade I.

### PSWM 8.3 APPLICATION OF PAINTS, etc.

All coats of paint etc., shall be thoroughly dry before subsequent coats are applied, and rubbed down where necessary.

All work shall be finished in the colour approved by the Employer. The tints of undercoats shall approximate those of the finishing colour, and in order to indicate the number of coats applied and to avoid misses when applying a succeeding coat, a slight difference shall be made in the tint of each coat.

Priming on wood surfaces shall be done with a brush. Priming on surfaces other than wood shall be done with a brush, or, if in the opinion of the Employer the primer and the surfaces are considered suitable for roller application, the primer may be so applied. If a brush is used, priming shall be well brushed in to obtain maximum penetration.

Undercoats and finishing coats may be applied by brush or roller.

The use of a spray gun on site for the application of paint will not be permitted, except in the case of cellulose and other special paints where spraying is the accepted method of application; in cases where spraying is permitted, all surrounding surfaces shall be properly masked.

**The finishing coat on woodwork and metalwork**, unless otherwise specified, shall be of **high gloss paint**.

All materials shall be used in strict accordance with the manufacturer's instructions.

**ANNEXURE C**  
**OCCUPATIONAL HEALTH AND SAFETY**

**REFURBISHMENT OF THE SEWER PUMPSTATION IN TWEELING / MAF AHLANENG**

**OHS OCCUPATIONAL, HEALTH AND SAFETY**

**SECTION A: INTRODUCTION**

**1.1 Introduction to the Health and Safety Specification**

The Construction Regulations (7 February 2014, R.84) places the responsibility on the Client to prepare a baseline risk assessment and a suitable, sufficiently documented and coherent site-specific Health & Safety Specification, which informs the appointed contractor of all the health & safety requirements pertaining to the associated works on the construction site as well as risks not successfully eliminated during design.

**1.2 Purpose of the Risk Assessment**

The purpose of the risk assessment is to identify risks and hazards to which persons may be exposed. Base line risk assessment prepared by Agent of the Client attached. - Annexure 1

**1.3 Purpose of the Health and Safety Specification**

The purpose of the Health and Safety Specification is to assist in achieving compliance with the Occupational Health & Safety Act 85/1993 and the promulgated Construction Regulations (7 February 2014, R.84) to manage health and safety risks and to reduce incidents and injuries. This specification shall act as the basis for the drafting of the construction Health & Safety Plan by the Principal Contractor and all subsequent Health & Safety Plans by Contractors.

The Health and Safety Specification sets out the intention of the Client and Designer. It also includes arrangements made by the Client, Health and Safety Agent or consulting Project Manager to ensure that the parties involved in the project cooperate and co-ordinate their activities, to remove or minimize the risks to health and safety of those who are involved in the construction project, or who may be affected by the work activities.

This document sets out the requirements, under a number of sections of Health and Safety Legislation, for the successful health and safety management of the project by the Principal Contractor in accordance with the requirements set out in this Health and Safety Specification. The Principal Contractor will be expected to integrate his own health and safety policy and arrangement documents into their Health & Safety Plan. The format is in line with the requirements of Regulation 5. of the Construction Regulations (7 February 2014, R.84), for a Health and Safety Plan to be developed before the commencement of construction.

## 1.4 Implementation of the Health and Safety Specification

The Construction Health and Safety Plan must be handed to the appointed Health and Safety Agent prior to the commencement of works. The Principle Contractor must submit the signed "Acknowledgement of receipt" (- Annexure 2) of this Health and Safety Specification on the date of issue or return to the Client or their representative with tenders. No Principle Contractor may commence with construction work until their Health and Safety Plan has been reviewed and approved by the appointed Health and Safety Agent.

## 1.5 Health and Safety Targets

The following health and safety targets have been set for achievement during the period of this project.

- The achievement, by the Principal Contractor, of an incident-free project, as far as possible, with the prevention of all incidents, and the achievement of a nil "lost time injury" rate.
- The workforce's co-operation in ensuring that health and safety is everybody's responsibility.
- A proactive approach to health and safety by the construction management team.
- That safe working will be a condition of employment in all contractors' organizations.

## 1.6 DEFINITIONS

"CLIENT" Shall mean Fezile Dabi District Municipality

"H&S" Health, Safety & Environment

"Contractor" Refer to the Mandatory who is employed on the Project and includes his own sub-contractors who he further employs.

"Employer" Means any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of that employer.

"Mandatory" Includes an agent, a Contractor or a subcontractor for work, but without derogating from his status in his own right as an employer or a user.

"Principal Contractor"

Is the main Contractor, joint venture partners or consortium who employs or provides work on the Project.

"Project" Refers to the contract and has reference to the premises or any part thereof where the work which has been contracted for is to be performed.

## 1.7 Reference Documents, Standards and Related Procedures Health and Safety

- The Occupational Health and Safety Act (No. 85 of 1993) and Regulations there under
- The Construction Regulations (7 February 2014)
- All other relevant Health and Safety Legislation
- Method statements supplied by consultant or designer
- National Building Regulations
- SANS 10089-2 & 3, SANS 10085, SANS 10108, SANS 10400, SANS 1200, SANS 10142
- JBCC

## 1.8. Costing Health and Safety

It is the responsibility of the Principle Contractor to make sufficient provision for OHS requirements and the following should be taken into consideration:

- Training:
  - First Aid
  - Safety Rep
  - Scaffold Erectors
  - All Operators
  - Safety Officer
- Equipment and PPE:
  - Clothing
  - Safety Shoes
  - Gloves
  - Respiratory masks
  - Goggles/safety glasses
  - Road signs
  - Symbolic Safety Signs
  - First Aid equipment, kit and box.
  - Fire extinguishing equipment
  - Safety Harnesses
- Medical fitness certificates for all employees – Const. Reg. (7 February 2014)

## **SECTION B: HEALTH AND SAFETY PROJECT SPECIFIC SPECIFICATIONS**

### **1. OBJECTIVE**

This agreement is entered into by the parties in order to identify and stipulate the arrangements and procedures between the Client and Contractor in order to ensure that the Contractor and their subcontractors comply with all the H&S requirements along with all applicable legislation on the Project.

#### **1.1 INSURANCE**

1.1.1 The Contractor and its subcontractors warrant that they have the following insurance cover which shall remain in force whilst on the Project, or which shall remain in force for the duration of the contractual relationship between the Client and Principal Contractor, whichever period is the longest;

- a) Compensation Registration covering all occupational injuries and diseases and the cover must be paid up for the duration of the Project. Proof of this cover must be provided to the Principal Contractor in the form of a Letter of Good Standing from either the Compensation Commissioner or relevant insurance fund managers.
- b) Adequate Public Liability insurance cover in relation to the work undertaken.
- c) Any other insurance cover that will adequately make provision for any losses and/or claims arising from its subcontractors and/or their respective employees and/or omissions whilst on the Project.

#### **1.2 ADMINISTRATION**

1.2.1 The Contractor shall ensure that it always has an updated copy of the applicable legislation on the Project and that this copy is accessible to all employees. The Principal Contractor will also keep an updated copy on the Project for viewing by any Contractor.

1.2.2 The Contractor and its subcontractors shall ensure that a H&S File is implemented and maintained for the duration of the Project. This file must contain all relevant documentation pertaining to H&S related issues such as, appointments, risk assessments, accident procedures, incident investigations, training records, registers, check lists, safety meeting minutes and other H&S related documentation.

1.2.3 All comments contained in this section require specific measures to be incorporated into the construction Health and Safety Plan. The Principal Contractor may not allow work to commence on site before an adequate construction Health and Safety Plan is developed. The plan must contain the method statements, procedures, and scope of works for the project. Further risk assessments and method statements must be carried out where the works may change, due to design changes. The construction phase Health and Safety Plan, developed by the Principal Contractor must also take into account current health and safety legislation and associated codes of practice.

1.2.4 The Contractor and its subcontractors shall also permit a representative from the Principal Contractor to view and inspect the file from time to time as determined by the Project requirements.

### **1.3 SUPERVISION / APPOINTMENTS**

- 1.3.1 The Contractor and its subcontractors shall ensure that all work performed is done under the supervision of trained and competent persons.
- 1.3.2 The Contractor and its subcontractor shall appoint a Construction Manager in terms of the applicable legislation. This appointed person will be responsible to ensure that all H&S requirements are implemented and adhered to on the Project.
- 1.3.3 Attached to this agreement is a blank copy (-Annexure 3) of a standard Construction Manager appointment form, which must be completed and submitted with this agreement.
- 1.3.4 The Contractor's appointed Construction Manager will also be required to attend all scheduled H&S meetings of the Project.
- 1.3.5 The Contractor and its subcontractors shall further ensure that all other legislative appointments are implemented and maintained for the duration of the Project and that those employees appointed have the necessary training and experience to meet those requirements.

#### **TRAINING**

- 1.3.6 The Contractor and its subcontractors shall ensure that all its employees are adequately trained and experienced to perform their work. Where semi-skilled employees are employed, adequate supervision must be available to maintain standards of work and to ensure compliance with H&S standards on the Project.
- 1.3.7 The Contractor and its subcontractors shall ensure that all employees undergo a formal H&S Induction prior to commencing on the Project. Proof of this induction must be submitted along with this agreement.
- 1.3.8 The Contractor and its subcontractors shall ensure that all its employees are in possession of valid licences and / or certificates of the correct code where machinery or plant is utilised. Proof of these licences and / or certificates will be kept in the Contractors H&S File.

### **1.4 ACCIDENT PROCEDURES**

- 1.4.1 The Contractor and its subcontractors shall ensure that a sufficient number of trained first aiders are available on site for the duration of the Project. The number and Level of training will be determined by legislative and Project requirements. A guideline however may be a Level 1 trained first aider at all times on site during construction work.
- 1.4.2 The Contractor and its subcontractors shall ensure that suitable first aid facilities are provided for the work to be performed. The number of first aid facilities and type of equipment will also be determined by the legislative and Project requirements.
- 1.4.3 Should the Contractor or its subcontractors utilize the Principal Contractors first aid facilities then this needs to be agreed upon in writing. Cost of first aid equipment will then be charged to the Contractor at the discretion of the Principal Contractor.

1.4.4 The Contractor and its subcontractors shall ensure that a suitable Accident Procedure is drawn up for the duration of the Project. This Accident Procedure must be submitted to the Principal Contractor and must contain the names of all emergency contact persons and contact numbers.

1.4.5 The Contractor will be responsible to inform the (relevant authorities i.e. Department of Labour, etc) of any Serious or Reportable Incidents which may occur in terms of the applicable legislation. All correspondence to the (Relevant Authorities) regarding these incidents must be copied and submitted to the Principal Contractor.

1.4.6 The Contractor shall ensure that a monthly report is submitted to the Principal Contractor and shall contain the following:

- a) Man-hours worked for the relevant month (including subcontractors)
- b) No of work-related injuries for the relevant month.

## **1.5 HEALTH & SAFETY REPRESENTATIVES**

1.5.1 The Contractor and its subcontractors shall ensure that an adequate number of health and safety representatives are appointed and trained, as per the requirements of the applicable legislation and / or Project H&S requirements. As a guideline one Health and Safety Representative should be appointed for every 20 employees.

1.5.2 The Contractor and its subcontractors shall ensure that regular internal H&S meetings are conducted and attended by the appointed Health & Safety Representative. The frequency of these meetings must be determined by the work activities performed along with the duration of the Project, however at least once a month.

1.5.3 The Contractor and its subcontractors shall keep record of these meetings in the H&S File along with the attendance records.

1.5.4 The Contractor Supervisor or his Health and Safety Representative will attend the main Project H&S meetings.

## **1.6 MEDICAL FITNESS CERTIFICATES**

1.6.1 The Contractor must ensure that all his or her employees have valid medical certificates of fitness specific to the construction work to be performed and issued by an occupational health practitioner.

## **1.7 MACHINERY**

1.7.1 The Contractor and its subcontractors shall ensure that all the plant, machinery and equipment they wish to utilize on the Project is of sound order and fit for the purpose for which it is intended and that it complies with all applicable legislative requirements.

1.7.2 The Contractor and its subcontractor shall ensure that all plant, machinery or equipment is suitably guarded by means of insulation, fence, screening, or guarding. Further to this, all safety equipment in relation to plant, machinery or equipment is in a suitable and working condition.

1.7.3 The Contractor and its subcontractor shall ensure that all employees operating or utilising such plant, machinery or equipment are suitably trained, experienced and are aware of the dangers involved.

1.7.4 The Contractor and its subcontractors shall not permit uncertified employees from working on moving or electrically alive machinery. Isolation Procedures shall be adhered to by all.

1.7.5 Devices to start and stop machinery must be clearly labelled and in working order on all plant, machinery and equipment. Warning signs of relevant dangers must also be clearly visible.

## **1.8 HOUSEKEEPING / CLEANLINESS**

1.8.1 The Contractor and its subcontractor shall ensure that the area where the work is performed is at all times maintained to reasonably practicable levels of cleanliness. Further to this the following must be addressed:

- a) adequate care is taken to ensure correct storage and stacking of articles and material,
- b) regular refuse removal is maintained,
- c) the working area around machinery is clean and demarcated.
- d) no articles or material are disposed from any height without the necessary precautions taken.

1.8.2 The Principal Contractor reserves the right to clean up after any Contractor who fails to adhere to these housekeeping requirements and to charge the Contractor accordingly.

## **1.9 GENERAL H&S REQUIREMENTS**

The Contractor and its subcontractors shall ensure that:

- 1.9.1 All employees are issued with the appropriate PPE and that they are trained in the correct use thereof.
- 1.9.2 Employees are medically certified to work on height and to operate Plant and Machinery.
- 1.9.3 All security measures implemented on the Project are adhered to and that random searching may be carried out.
- 1.9.4 All signs and notices implemented on the Project are adhered to and not damaged in any way.
- 1.9.5 Suitable firefighting equipment is made available and employees are trained in the safe use thereof.
- 1.9.6 No large volumes of flammable substances are stored and suitable precautions are taken to store those that are.
- 1.9.7 Suitable measures are in place with regards to sanitation, changing facilities, eating facilities, and drinking water.
- 1.9.8 Measures are taken to reduce any environmental impairment with regards to noise, ground, air and water pollution.
- 1.9.9 Suitable lighting is provided in all darkened working areas.
- 1.9.10 No employees are permitted to enter / work on the Project while under the influence of any intoxicating substances.
- 1.9.11 No machinery, article, substance, plant or PPE belonging to the Principal Contractor is used without permission.
- 1.9.12 No illegal immigrants are employed by the Contractor or subcontractor while on the Project.  
Without derogating from the generality of the above requirements and notwithstanding the applicable legislation the Contractor and its subcontractors shall ensure the following:
  - a) The provision of a safe and healthy working environment,
  - b) The provision of safe and healthy systems of work, plant and machinery,
  - c) The identification of the prevalent hazards to health and safety and the precautionary measures to be taken,

- d) The provision of the necessary information, instructions and training,
- e) The enforcement of the established precautionary measures,
- f) Informing employees on their scope of authority,
- g) Informing employees on their scope of authority,
- h) Making employees conversant with the identified hazards and precautionary measures,
- i) Ensuring that no employee is victimized because of adhering to these requirements.

The Client reserves the right to request immediate correction of any non-compliance identified in terms of this agreement by any Contractor and its subcontractors during the performance of the work on the Project. The Client further reserves the right to stop any work that does not comply with the H&S standards and without the cost to the Client. This agreement places the onus on the Principal Contractor to contact the Client/Agent in the event of the inability to perform as per this agreement.

#### **1.10. ADDITIONAL REQUIREMENTS**

Compliance to the Occupational Health and Safety Act 85 of 1993 or other applicable Legislative Requirements, is a legal requirement and all Contractors and subcontractors are required to adhere with the Legislation and its regulations to avoid prosecution by the Authorities. Over and above the Legal requirements, Contractors will be required to comply with the specific requirements of this document and client H&S requirements.

Contractors will provide to the Principal Contractor, before work commences, a written Health, Safety and Environmental Plan, which is to be approved by the Principal Contractor. The Contractor shall ensure the implementation and adherence to the Health, Safety and Environmental Plan by its Employees and subcontractors.

The Principal Contractor will ensure that all subcontractors employed on the Project maintain H&S files and submit such documentation to the Contractor on completion of their contract. Subcontractor H&S files will be handed over to the Principal Contractor by the Contractor on the completion of the contract work performed by the Contractor.

The Client/Agent reserves the right to stop any Contractor or his subcontractor from performing his activities if the Contractor or his subcontractors is found not adhering to the specified H&S Plan, contravening any Legal requirements, or not adhering to the Clients H&S Specifications for Contractors, or if the Contractor or his subcontractor is found performing his work activities unsafely.

##### **1.10.1 Requirements**

Contractors are responsible to comply with the Legislation and Contractual Requirements of the Principal Contractor and Client. However various systems will be implemented to ensure compliance by all Contractors on the Project. Contractors will be included in all H&S meetings and will receive copies of all H&S related documentation pertaining to their operations. Routine inspections and monthly audits will include Contractor operations. Formal action will be taken against Contractors failing to comply with the Project H&S requirements. The formal action could lead to financial implications and / or permanent removal from the Project.

#### 1.10.2 Mandatory Agreement / Contractor Specification – Section 37(2)- **Annexure 4**

This document is deemed to be accepted once it has been issued unless written response is received within 5 (five) working days of issue. Contractors are required to sign this Contractor Safety Specification, which includes the Mandatory Agreement (OHS Act 85 of 1993 – Section 37(2)

Agreement) with the Principal Contractor. This Agreement covers various aspects such as Insurance, Administration, Supervision, Training, Accident procedures, H&S Representatives, First Aid, Housekeeping and General H&S requirements. Contractors will not be allowed to commence work, unless both Parties have signed this Agreement, and all required documentation is on site.

#### - **Annexure 5**

#### 1.10.3. Contractor Supervisor Appointment & Functions

Attached to this Mandatory Agreement is a blank Construction Manager (– CR8(1)] Appointment Form. The Contractor shall appoint a trained and competent person in writing to oversee their respective operations. As with this Mandatory Agreement no work will commence until the Appointment form is received and the appointed person is qualified to be the Construction Manager for the Contractor on the Project.

### 1.11 **GENERAL ADMINISTRATION**

#### 1.11.1 Letter of Good Standing – Compensation Commissioner (COID Act 130 of 1993).

The Contractor will supply an updated copy of their Letter of good Standing with either WCA or FEMA to the Client before work commences on the Project. Therefore, all employees who may be injured or suffer any disease associated with the work activities, will be covered in terms of the COID Act 130 of 1993.

#### 1.11.2 Notification of Construction Work

As standard procedure, formal written Notification of all new Projects in the Republic of South Africa are submitted to the Department of Labour. Copies of the notification are kept on the Project H&S file. Additional copies are available on request. The Principal Contractor will do this notification.

#### 1.11.3 Monthly Project Man-hour & Injury Report

The Contractor is required to submit a formal Monthly Report of the Hours worked and Injuries sustained to the Clients Agent.

#### 1.11.4 Safety File

The Contractor will have and maintain a H&S file where all administrative requirements will be kept. At the end of the Contractor's contract the Contractor will hand over his completed H&S file to the Principal Contractor who will submit all documentation to the client.

#### **The Construction Health and Safety Plan should include details of the following:**

- The positioning of the site access and egress points to ensure that any nuisance or risk to the occupants of the building and adjacent properties is minimised and controlled. This should be away from the adjacent occupied and sensitive premises.
- The location of temporary site accommodation to ensure that adjacent sensitive properties are not subjected to any nuisance arising from the use of the facilities.

- The location of unloading, layout and storage areas to reduce and minimise excessive manual handling of construction materials, damage to building and adjacent property and the security of the plant, equipment and materials.
- Requirements to maintain access for emergency service vehicles during works are necessary as well as the temporary relocation of existing firefighting equipment.
- The planning of traffic and pedestrian routes to ensure adequate protection for members of the public and site employees and operations.
- The use of suitable barriers, signs and the appointment of a flag person should be adopted to provide the required level of protection.
- The arrangements for the reception of prospective visitors.
- The site emergency plan should be taken into consideration when developing the Principle Contractor's own emergency plan.

The following should be contained in the Contractors H&S File:

- Copy of the Occupational Health and Safety Act (85 of 1993)
- Updated Letter of Good Standing with WCA or FEM - Const. Reg. 7(1)(c)(iv)
- Clients Safety Specification
- Risk Assessments
- Fall Protection Plan
- Environmental Management Plan
- All Policy's
- All notices issued by DoL.

**Records specific to the Project:**

- Risk Assessments - Const Reg. 9
- Fall Protection plan - Const Reg. 10
- Mandatory Agreement - Sect. 37
- Safety Inductions of Employees - Const Reg. 7(7)
- Incident Recording & Investigation - GAR 9(1)
- Incident Reports - GAR 8(1)
- Health and Safety Rep. Inspections - Sect. 18
- Issue of PPE - GSR 2
- Safety Meeting Minutes - Sect. 19
- Letter of Good Standing from FEM or WCA - Const. Reg. 7(1)(c)(iv)
- Safety Toolbox Talks - Sect. 8, Const Reg.9(3)
- First Aid Box Contents - GSR 3(3)(a)
- First Aid Treatments - GSR 3(1)
- Training certificates of employees and Medical fitness certificates for employees working at heights.
- Training certificates and Operator Medical certificates for Operators of Plant, Machinery and Vehicles
- Medical fitness certificates issued by an Occupational Health Practitioner- Const. Reg. 7(8)
- Registers (as per list under section for Registers)

## Appointments

- Appointment of Manager - Sect 16(2)
- Construction Manager - Const Reg. 8(1)
- Assistant Construction Manager - Const Reg. 8(2)
- Risk Assessor - Const Reg. 9(1)
- Fall Protection Supervisor / Planner - Const Reg. 10(1)(a)
- First Aider - GSR 3(4)
- Incident Investigator - GAR 9(2)
- Health and Safety Representative - Sect. 17(1)
- Electrical Machinery Operator/Inspector - Const Reg. 24(e)
- Scaffold Supervisor - Const Reg. 16(1)
- Formwork Supervisor - Const Reg. 10(a)
- Fire Equipment Inspector - Const Reg. 27(h)
- Construction Vehicle Operator / Inspector - Const. Reg. 23(1)(d),(k)
- Stacking Supervisor - Const. Reg. 28(a)
- Lifting Tackle Inspector - DMR 18
- Material Hoist Inspector - Const Reg. 19(8)
- Lifting Machine Inspector - DMR 18
- Demolition Supervisor - Const Reg. 14(1)

### 1.11.5 Registers & Checklists.

In order to ensure that all plant, equipment, systems and procedures are maintained in accordance to Legislative requirements, formal inspection Registers and Checklists have to be compiled. These Registers and Checklists are then complete by the appointed persons, who are designated in writing.

The completed forms are kept on the Contractors H&S file and then archived after Project completion.

The following is a list of Registers and Checklists required to be completed for the applicable activities and at intervals as per the requirements of the Occupational Health and Safety Act 85 of 1993:

- Portable Electrical Equipment
- Hand Tools
- Construction Vehicle
- Scaffolding
- Form & Support work.
- Fire Extinguishers
- Construction Vehicles and Mobile Plant Equipment
- Explosive Power Tools
- Hazardous Chemical Substances
- Cranes
- Slings, Chains & Hooks (Lifting Tackle)
- Compressors
- Ladders
- Hoists

- Gas Welding / Flame Cutting
- Safety Belt / Safety Harnesses
- Distribution Boards
- First Aid Boxes
- Contact details with certified ID copies of all workers on site
- List of all subcontractors on site with contact details CEO and Construction Manager on site.

## **1.12 SAFETY INDUCTION AND IDENTIFICATION**

- 1.12.1 The Contractor will ensure that all his employees and visitors will first go to the Principal Contractors Project Safety Officer or Site Agent for a Site Safety Induction or will explain and have the General H&S Induction form signed by all employees / Visitors, before the persons will be allowed onto the Construction Site. The Contractor will keep a copy of all the signed General H&S Induction forms on his H&S file and will issue the Principal Contractor with copies of all signed forms within 24 hours of new employees or visitors arriving on site. Failure to comply will result in a fine imposed onto the Contractor.
- 1.12.2 The Contractor will first take new employees to the Principal Contractor Project Safety Officer or Site Agent for a Site Safety Induction or will explain and have the form signed by the new employee, before the employee will be allowed to start work.
- 1.12.3 The Contractor will ensure that his employees are issued with some sort of identification i.e. Contractor name on Overalls, Hardhats or ID cards will be acceptable

## **1.13 RISK ASSESSMENTS AND SAFETY TALKS (TOOLBOX TALKS)**

- 1.13.1. Base line Risk Assessment compiled by Client Agent attached. Contractor must compile and document the necessary Work Procedures and Method Statements that would control the activities to a degree that would be compliant with legislation and the requirements of this specification.
- 1.13.2 The Contractor must perform Risk Assessments of hazards and risks associated with the scope of work relevant to the Contractors appointment, shall be assessed, safe methods of work identified; safe working conditions and a healthy work environment will be provided.

The following risk assessments by the Principle Contractor are to be considered:

- All task-oriented risks – particularly working from height, services decommissioning and/or modification, etc.
- Equipment risks
- Physical risks
- Chemical risks
- Ergonomic risks

The following method statements and/or procedures must be available before work starts on site:

- Establishment of site welfare, first aid and emergency procedures (fire and security, etc).
- Welfare facilities to take into account demolition and/or contaminated soil removal if required.
- Noise and dust control during construction process.
- Arrangements for emergency fire, security and first aid facilities.
- Arrangements for emergency service vehicles access to the premises.

- Traffic management arrangements to protect site staff, public and road traffic from construction works and when loading and offloading of materials and equipment.
- Protection to overhead and underground services.
- Arrangements for dealing with emergency situations, particularly during demolition, deep excavations, overhead and underground services.
- Public protection arrangements.
- Method statement for demolition of structures including fall protection and/or asbestos handling plans.
- Contaminated waste materials handling (health and environmental issues) and records of waste removal.
- Selection and maintenance of plant and equipment.
- Selection of competent contractors.

**Following a high-level risk assessment done in terms of risks posed by construction activities to the Client, customers or staff, and 3rd party assets, members of the public and the environment, the recommendations therein need to be included in the Principle Contractor's Health and Safety Plan as follows:**

- Proper hoarding of demolition and construction area (sound construction, height & safety distance from works)
- Danger tape around all excavations
- Visible signage (e.g. "No unauthorised entry", "Warning construction in progress") and access control for demolition and construction area.
- All construction vehicles and plant to be properly maintained with daily inspections/checks done.
- Safe routes established for pedestrian and vehicular traffic.
- Use of competent contractors with competent supervisors.
- No night work by contractors
- All employees to wear reflective vests when working close to public roads or where plant and vehicle movement take place.
- Hard hat area declared with visible signage.
- Structures adequately supported during demolition and construction.
- Induction training of all contractors and visitors
- Lifting equipment to be of suitable design to carry load and offloading operations supervised.
- All scaffolding erected as per SANS 10085.
- Emergency response measures to be adapted to accommodate construction works.
- Certificate of safe installation issued by electrical contractor before demolition and after commissioning.
- Traffic control for construction area. Person controlling traffic or working close to traffic to wear hi-visibility jacket/vest.
- Underground services to be identified within area of excavation works and necessary precautions established prior to commencement of works.
- Hand excavation done if underground services cannot be determined.
- Permit to work system to be used with supervision by safety officer, when required.
- Contaminated soil stockpiled on prepared surface as per Environmental Management Plan

- Segregation and disposal of contaminated soil to be done under controlled conditions as per Environmental Management Plan
- Asbestos removed and disposed of by an accredited contractor.
- Machinery maintained as per OHS Act and manufacturer's spec.
- All machinery and vehicles to be isolated at the end of each day and located within the hoarding if not removed from site.

1.13.3 All Risk assessments shall be communicated to the employees of the Contractor by the Contractor before work starts.

1.13.4 When activities change the Contractor will be required to revise the risk assessment to suit the changed conditions and re communicate the revised risk assessment with the employees.

1.13.5 Copies of all risk assessments will be issued to the Principal Contractors Project Safety Officer or Site Agent for review and these will include copies where the Contractor's employees have signed confirmation of receiving the risk assessment information.

1.13.6 The Contractor is required to have a Weekly Safety Talk (Toolbox Talk) with his employees to inform them of safety issues related to their scope of work. The employees of the Contractor will sign acknowledgement of receiving the training and copies of the documents shall be kept on the Contractor H&S File and copies will be issued to the Principal Contractor Project Safety Officer or Site Agent.

1.13.7 Risk Assessor Appointment & Functions. The risk assessment process will be co-ordinated by a Contractor Appointed Risk Assessor. This person will oversee all risk assessments. Further to the above, the Contractor will ensure that all Appointed Contractor Supervisors convey the information on the risk assessment to the respective work crews and the contractor employees sign an Attendance Register.

#### **1.14 APPOINTMENTS – SUPERVISORY**

1.14.1 All legal and client requirements regarding appointments will be adhered to on the Project. In all cases the person being appointed will have the necessary training and / or experience for the appointed position.

1.14.2 The Contractor will have an H&S Appointment Structure in place. The CEO will delegate certain responsibilities down to appointed employees; however, he will remain ultimately responsible.

1.14.3 Delegation of Duties – Section 16(2). The Contractor CEO will appoint his Managing Director and Contracts Director who will oversee that all legal, client and company H&S requirements are implemented, adhered to, and enforced.

1.14.4 Construction Work Manager CR8 (1). The Contractor will appoint a Construction Manager for the contract to supervise the construction process and thus ensuring that all legal, client and company H&S requirements are implemented, adhered to, and enforced. The appointed person will have the authority to appoint all other persons as may be required on the Project.

1.14.5 Assistant Construction Managers CR8 (2). Assistant Construction Managers may be appointed to assist the Construction Manager. Although their duties will be the same as the Construction Work Supervisor, the Construction Manager will remain accountable for any supervisory duty which the Assistants fails to conduct.

### **1.15 PROJECT H&S OFFICER**

1.15.1 Requirements CR8 (5). Contractors shall co-operate with such an appointed Principal Contractor Project Safety Officer and will adhere to his / her requests and recommendations.

1.15.2 Appointment & Functions. The function of the Project Safety Officer is to assist advice and enforce all H&S issues related to the Project. The duties of the Project Safety Officer will include but will not be limited to stop any Contractor who in his / her opinion works unsafely or poses a threat to any other person.

1.15.3 Monthly Inspection Report. The appointed Principal Contractor Project Safety Officer will be required to formally inspect the Project on a monthly basis and all findings will be recorded and distributed to the all appointed supervisors, client and or client agents, contracting companies and relevant Divisional H&S Departments. The Principal Contractor Safety Officer will also be required to do monthly audits on the Contractor Safety files and H&S Plans.

### **1.16 H&S REPRESENTATIVES & COMMITTEE MEMBERS**

1.16.1 OHS Act 85 of 1993 – Sect 17 & 19. As per the legal requirements, the Contractor will appoint H&S Representatives & H&S Committee Members on the Project. These persons will be nominated by the Contractor workforce and will thus represent the workforce in all H&S related issues. A minimum of one H&S Representative will be appointed for every 20 employees. All H&S Representatives will be members of the Project H&S Committee and will meet on a monthly basis with the Project management to discuss H&S related issues.

1.16.2 Appointments & Functions. The appointed H&S Representatives and Committee Members shall be formally trained in their functions and responsibilities. These will also be clearly defined on their appointment forms.

1.16.3 Monthly Inspection Report. Each H&S Representative is required to complete a formal inspection report for their respective work areas. These reports are then tabled at the monthly safety meetings for review, however should the need arise a H&S Representative may at any time complete an inspection report and forward it directly onto the appointed Construction Manager. These monthly reports are kept in the Contractor Safety File and then archived after the completion of the Project.

### **1.17 H&S MEETINGS**

1.17.1 Monthly H&S meetings with all H&S Representatives and other committee members will be conducted for the contract. Depending on the scope of work, monthly H&S Contractor meetings will also be conducted to discuss H&S related matters.

- 1.17.2 The Project H&S meetings are formalised with a standard agenda; however, each Project may adapt the standard agenda to meet either client requirements or joint venture requirements. Minutes must be kept for each meeting and distributed to each member. As will all H&S documentation these are filed on the Principal Contractor Safety files for viewing by either client or officials from the Department of Labour.
- 1.17.3 All persons attending H&S meetings are required to sign a standard attendance register as proof of attendance.
- 1.17.4 Contractor Supervisor Meetings. It might be required by the Client/ Agent to have a safety meeting with the supervisors of the Contractors when the need arises or if the Client/Agent sees fit to have meetings.

## **1.18 ACCIDENT PROCEDURES**

- 1.18.1 Standard Accident Procedure. Fully equipped first aid boxes along with applicable signage must be placed in prominent areas on the Project. All accident investigations will be conducted by either the Project Contractor Safety Officer, appointed investigator or appointed Contractor H&S Representative.
- 1.18.2 First Aider Appointment & Functions. The Contractor will appoint a trained Level 1 First Aider. A minimum of one trained First Aider with his First Aid Box must be available for every 50 employees. Each trained First Aider must be appointed in writing and responsibilities should be in writing on the appointment form.
- 1.18.3 Name List of First Aiders. To promote the awareness of the trained First Aiders, their names and work areas shall be displayed in all prominent areas.
- 1.18.4 Emergency Evacuation Procedure. A Standard Emergency Evacuation Procedure must be developed by the Contractor in accordance with the Emergency Evacuation Procedure of the Principal Contractor. A Client's specific Evacuation Procedure will take preference over the standard evacuation procedure. Details of the Emergency Evacuation Procedure will be displayed in all prominent work areas.
- 1.18.5 To promote the awareness of the emergency numbers the lists will also be displayed in all prominent areas.
- 1.18.6 Employees Report of Accident Forms. In the unfortunate case of a person being injured and requiring medical attention the standard "Employers Report of Accident" form will be completed accordingly. Sufficient blank copies will be kept at the Contractors offices. As per the accident procedures copies will be sent to the medical practitioner and relevant company Head Office. A copy will also be kept on the Contractor Safety file
- 1.18.7 Investigation Form (Annexure 1). Each incident involving medical attention from either a doctor or hospital will be fully investigated on an Annexure 1 form. This form entails input from all parties namely the investigator, H&S Committee and Project management. Each investigation will be reviewed at the monthly H&S meeting. Once actioned the Annexure 1 form will be kept on the Contractor H&S file. If required the client will be notified immediately and a copy handed over.

1.18.8 Serious & Reportable Incidents. The Contractor will immediately inform the Client/Agent and the Principal Contractor of any serious or fatal accidents which occur. In the case of Fatality, the Contractor will also inform the Authorities (Department of Labour and SAPS) for their investigation.

## **2. CONSTRUCTION ACTIVITIES**

### **2.1 Portable Electric Tools**

No Contractor will allow any employee to work with unsafe or damaged portable electric tools. All tools will be inspected before it is issued to employees. Any Contractor who does not conform to this requirement will be fined and the tool confiscated until it is made safe to use by the Contractor. All rotating parts will be sufficiently guarded to protect employees. Tools may only be used by competent / trained persons.

### **2.2 Scaffolding**

No Contractor will allow any employee to work on unsafe or damaged scaffolding. Scaffolding will be inspected daily and after inclement weather by a competent appointed person.

No work will be allowed on scaffolds during inclement weather conditions. Scaffolds will be fitted with a sign at the access to the Scaffold to indicate if it is safe or unsafe to use. Scaffolds will be constructed to SANS 10085 standards and OHS Act 85 of 1993 regulations.

### **2.3 Ladders**

No Contractor will allow any employee to work on unsafe or damaged ladders. No person will be allowed to stand and work on the last 2 rungs of any ladder. When the ladder is longer than 3 m then another person will hold the ladder in place at the bottom and the ladder will also be tied to a solid structure at the top where possible. Ladders will be inspected visually before shifts starts and monthly on a register.

### **2.4 PPE (Personal Protective Equipment)**

Compulsory PPE is Hardhats, Safety boots and overalls. Any other PPE required will be determined by the Risk Assessment. PPE will be issued to employees free of charge and a signed register will be kept by the Contractor to prove that PPE has been issued to the employee. Only full body harnesses will be allowed to be used by employees who are working on any unprotected heights. These harnesses must carry the SABS stamp of approval. PPE will comply with relevant SABS and OHS Act 85 of 1993 regulations.

### **2.5 Fall Protection Plan**

A detailed fall protection plan will be submitted by the Contractor to the Client for approval. A competent person will be appointed in writing to control and oversee all work being conducted by the Contractor.

All employees working on heights will be required to undergo a Medical Fitness test with an Occupational Health Practitioner, every 12 months as per the OHS Act 85 of 1993, Construction Regulations. Contractors working on heights will take precautions to prevent tool and equipment from accidentally falling from heights onto persons below. Where it can be prevented no person will work above other employees unless there is sufficient guarding protecting the employees below.

## 2. 6 Housekeeping

Housekeeping of the Contractors work area will be the responsibility of the Contractor. Housekeeping will be done throughout the day to prevent any material or tool obstructing the walkways of the employees. Cleaning of the work area will be done throughout the day and a final clean-up near the end of the shift. If the contractor does not comply with the daily cleaning of this area, the Clients Agent reserves the right to hire a cleaning team and to charge the Contractor for the cost of the cleaning team.

## 2. 8 Stacking and Storage

Lay down areas will be kept neat and tidy. Areas will be barricaded and all equipment, material or tools will be stored neatly inside this area. Stacking of equipment or material will be one on level solid surfaces. Overhanging of material will not be allowed.

Flammable liquids will be stored in a well-ventilated storeroom with a Fire extinguisher placed on the outside of the store. Gas cylinders will be secured in a trolley while work is being done on the site and will remain upright at all times. Gas cylinders will be stored upright inside a well-ventilated area, empty and full cylinders will be stored apart from one another. The Torch, pipes and regulators will be stored detached from the cylinders and will be kept in a storage box.

## 2. 9 Operators of Machinery

Operators of machinery will be required to complete a daily pre-start checklist before work commences. Operators must be in possession of a valid Medical Certificate issued by an Occupational Health Practitioner and the operator will be in possession of a Competency Certificate for the machine he / she operates. Drivers of trucks or any other Vehicle or Plant travelling on Public Roads must also be in possession of a valid PDP licence. It will remain the responsibility of the Operator of a Vehicle / Plant /Machine to report all oil leaks to the supervisor and to have the Vehicle / Plant / Machine fixed as soon as possible. Where there are Life Threatening Faults the Vehicle / Plant / Machine will not be used until it has been sufficiently repaired.

## 2. 10 Cranes and Lifting equipment

Cranes and Lifting equipment will comply with OHS Act 85 of 1993, Driven Machinery Regulations (DMR)18. Operators of mobile cranes must be in the possession of a valid PDP licence, medical certificate and training certificate. Mobile cranes must have a valid load test certificate and must be inspected monthly by a competent person on register. All lifting equipment / tackle must have a valid load test certificate and will be inspected monthly by a competent person on register. At no stage will gas cylinders be lifted by a crane unless the cylinders are in a cradle designed to carry equipment. Cranes will be directed by a Banks man / Supervisor with sufficient communication with the crane. It will remain the responsibility of the operator to ensure that the loads are not slewed over other employees and that the mobile crane slew is barricaded with tape while the crane is in operation. Where there is a Life-Threatening Fault, the Crane Operations will not start until the faults have been sufficiently repaired and the Crane was issued with a certificate to prove the crane has been fixed and where applicable, a new load test was conducted.

## 2. 11 Flame cutting and welding

Gas cylinders will be in a trolley while work is being done on site and will remain upright at all times. Gas cylinders will be stored upright inside a well-ventilated area, empty and full cylinders will be stored apart from another. The Torch, pipes and regulators will be stored detached from the cylinders and will be kept in a storage box. Electric welders will have insulated electrical cables, electrodes and an effective earth system. Areas where welding is taking place must be barricaded with welding screens and sufficient warning signs have to be erected to protect other employees from the glare and sparks. Operator will be trained and experienced in welding. A Fire extinguisher will be in the area of work where any spark producing activity takes place. Contractors who fail to comply with legal regulations and the stipulations of this document will face legal action which can be instituted by the Principal Contractor or the Client.

## 2. 12 Eating facilities and storage

Every Contractor will be required to have a sheltered eating facility with storage space for food.

## 2. 13 Edge Protection

The Principal Contractor must ensure that all exposed edges and openings are guarded and demarcated at all times until permanent protection has been erected. The Principal Contractor's risk assessment must include these items: protection of decking edges, finished floor slab or platform edges, stairways, floor penetrations, roof work and all other openings and areas where a person may fall. No exposed edges and other openings will be tolerated.

## 2. 14 Demolition Work

Demolition work will be done under supervision of a competent person. No floor or part thereof will be overloaded with debris or material in such way to make it unsafe. Adequate shoring or extra support will be used to prevent any accidental collapse of the structure being demolished. Safe means of access shall be provided by the Contractor. All waste and debris will be removed from site as soon as possible. The demolition area shall be well barricaded with relevant warning signs displayed on the barricading to prevent any unauthorised person to enter the demolition area. Dust will be minimized to an acceptable standard. When working with Compressors and Jack Hammers, the Contractor will ensure that all couplings are safeguarded with safety chains to the couplings. All service lines will be detected before the work starts and all service lines will be secured by competent persons before work commences.

## 2. 15 Form- & Support Work

Work will be done under supervision of a competent supervisor who has been appointed in writing. Before work commences drawings will be issued to the Principal Contractor. Decks will be erected in a systematic way and will at no time endanger any persons working on the deck. Handrails will be placed around the edges of the temporary or permanent decks. Safe access will be provided and fall protection will be used as per the Contractor's Risk assessment / Fall protection plan. No material will be thrown from any height.

## 2.16 Steel Assembling & Placing

Area where assembly takes place must be demarcated. When working at heights employees must be issued with safety harnesses and other PPE required as per the risk assessment. The correct tools must be used for the work to be done. When handling steel, beware of the cutting edges of steel and be aware of other people. When lifting steel with a crane the load must be well balanced.

### 2.1.17 Explosive actuated fastening devices and powered tools.

All operators will be trained by a competent company and will be appointed in writing. The operator will receive a training certificate which has to be forwarded to the Client/Agent. The "Gun" and the Cartridges will be stored in a lockable storage facility and will be stored separately.

## 2.18 OHS Act 85 of 1993

This document does not replace any regulations or any part of the OHS (Occupational Health and Safety Act) Act 85 of 1993 but does conform to the requirements of the OHS Act 85 of 1993 Construction Regulations. The Client shall provide a Health and Safety Specification to the Principal Contractor and the Principal Contractor will issue such information to the employed Contractors on the construction Project. As an Employer, the Contractor remains responsible to ensure compliance with the OHS Act 85 of 1993 and its regulations.

## 2.19 Non-Conformances

Any Contractor employee who is found not adhering to the Client H&S procedures, Contractor H&S Plan or OHS Act 85 of 1993 or who is observed doing unsafe acts or contributing to creating unsafe conditions will be issued with Site Instruction. Contractor employees will also be reprimanded as per the Company HR procedures, a first transgression constitutes a verbal warning, a second transgression constitutes a written warning, and a third transgression constitutes a full disciplinary hearing as per the Company HR Procedures. Any Life-threatening unsafe act or condition must be treated as Gross Neglect of Company Safe Rules and Procedures and a Disciplinary Hearing shall be conducted to determine the root cause of the incident and the appropriate action which must be taken to rectify the unsafe situation or prevent future incidents from occurring. Copies of the Non-Conformance Report and disciplinary procedures must be kept on record.

Copies of all Non-Conformance Reports must be kept in the Project H&S File for references.

## 3. ORGANISATIONAL ARRANGEMENTS

### 3.1. Site Rules

The Principal Contractor's organisational arrangements for health and safety on the project must include that of other contractors and sub-contractors involved. Site rules must be developed by the Principal Contractor to ensure that the restrictions, outlined in this Health and Safety Specification, are met.

In particular, arrangements and site rules must be developed to ensure that construction works do not put at risk the health and safety of any person.

The Principal Contractor must demonstrate a management structure for ensuring health and safety cooperation and coordination between all parties to the contract. This will include the development of a communications strategy between the appointed Principal Contractor, Contractors, Client, Health and Safety Agent, Design Team and consulting Project Manager. The Principal Contractor must ensure that an effective chain of communication exists, clearly showing that all levels of employees engaged on the contract participate in the communication process for health and safety concerns. Regular meetings will be established between the parties where health and safety performance will be discussed. Minutes must be kept and distributed for action following the conclusion of each meeting. Emergency and incident procedures must be developed and clearly co-ordinated between parties involved.

A security strategy must be developed by the Principal Contractor who must then communicate and coordinate the strategy to all parties to the contract.

### **3.2. Continuing Liaison**

Procedures for liaison to continue between all parties throughout the project should include the particular points listed below. All unforeseen eventualities which may occur during construction and which affect previously recognized health and safety issues or resources should be reported to the Clients Health and Safety Agent and consulting Project Manager. The Principle Contactor's appointed Construction Manager, Health and Safety Representative and/or Construction Safety Officer will consult with the workforce on health, safety and environmental matters through committee meetings, site meetings, contractor meetings, toolbox talks or verbally if so required. The Client or Designer will inform the Principle Contractor and Health and Safety Agent of all new designs, which may affect health and safety.

Information which will be relevant for inclusion in the health and safety file, should be collated, and should include information from Contractors. Arrangements should be made by the Principal Contractor with other contractors to ensure any information required for the health and safety file, which is generated by the contractors' work, is stored and passed to the Principle Contractor prior to completion of the project. The basic information, which will be relevant for inclusion in the health and safety file, should be passed to the Client. This should include but is not limited to the following:

- General details of the materials used in the construction process
- Details of the plan and equipment supplied and fitted
- Service details – gas, water, electricity, communications (telephone, cable, TV, etc)
- Specific maintenance details or requirements (plant, equipment, fixtures and fittings – where applicable)
- Suppliers' brochures for health and safety information (use, maintenance and repairs)
- All Agreements, Safety Committee minutes and nominated competent individuals, etc.
- All training records – i.e. special training needs, induction and visitor inductions.
- Construction Health and Safety Plan
- All inspections and audits conducted
- Medical fitness certificates for all workers issued by an Occupational Health Practitioner

### **3.3. Responsibilities**

#### **3.3.1. The Client**

The Client will ensure adequate information is available to all parties, to ensure they can perform their duties under the requirements of this document and relevant statutory legislation. The Client will appoint a competent Design Team, Project Manager, and after tender submittance, a competent Principal Contractor. The Client may also appoint a Health and Safety Agent who will carry the responsibilities of the said client. The Client may amend, vary or terminate these appointments as appropriate.

#### **3.3.2 Design Team**

The Design Team will be represented by consultant contact person, who will also be appointed Project Manager on this project. The Design Team is responsible for ensuring that the design is, as far as is reasonably possible, risk-free to persons constructing, maintaining or removing the structure. They are also responsible to make available all relevant risk information about the design and loading of structures, including suspended platforms, anticipated hazards or dangers and all method and sequencing of processes (with special conditions), to the Principle Contractor. The designer must also conduct a final inspection and issue a certificate.

#### **3.3.3. Client's H&S Agent**

The Client may appoint a Health and Safety Agent for the Project who will, on behalf of the Client, be responsible for implementing the Client's requirements for health and safety on the project. The Health and Safety Agent is also responsible for co-coordinating the Design Team, with reference to the design risk assessment process.

#### **3.3.4. Principal Contractor**

The Principle Contractor will develop and deliver the construction phase Health and Safety Plan and will further develop the plan prior to any construction work being undertaken and during the construction phase itself. The detailed Health and Safety Plan will set out clearly the Principal Contractor's management systems for managing health and safety on the contract in accordance with the Client's health and safety requirements set out in this document, the designer's risk information and any relevant health and safety legislation.

The Health and Safety Plan will be kept up to date by the Principal Contractor to include other contractors' and sub-contractors' risk control management information. The Principal Contractor will co-operate with the Client, Health and Safety Agent or Project Manager in all aspects of complying with the duties laid upon them by the OHS Act, its Regulations and specifically the Construction Regulations (7 February 2014).

Generally, the Health and Safety Policy and construction Health and Safety Plan will be to specify site rules such as the wearing of personal protective equipment and no alcohol or drugs, etc on site.

### 3.3.5. Contractors and Sub-Contractors

Each contractor and sub-contractor will be required to co-operate with the Principal Contractor and provide information on risk assessments, method statements, etc. for inclusion in the Health and Safety Plan prepared by the Principal Contractor. In addition, each contractor and sub-contractor will comply with the site rules and any reasonable instructions formulated by the Principal Contractor, in accordance with current relevant health and safety legislation. Contractors and sub-contractors will provide adequate information to the Principal Contractor, who in turn will collate this information for inclusion in the health and safety file documentation.

## ANNEXURE 1. Baseline Risk Assessment.

Project: ROAD / WATER

Ref.	ACTIVITY	HAZARD	RISK	MEASURES REQUIRED
	<b>Site establishment</b>	Heavy lifting	Injuries and strains	Procedures Equipment Training PPE
		Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
		Dust	Inhalation	Procedures PPE
		Snakes and spiders	Poisonous bites can cause death	Procedures Emergency plan
<b>2.</b>	<b>Offloading equipment and materials</b>	Heavy lifting	Injuries strains	Procedures Equipment Training PPE
		Collapsing loads	Injuries crushing, strains, death.	Procedures Training PPE
		Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
<b>3.</b>	<b>Excavations</b>	Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
		Collapsing side walls	Injuries crushing, strains, death.	Procedures Training PPE
		Dust	Inhalation	Procedures PPE
		Noise	Hearing impairment	Procedures PPE
		Open edges	Falling into or from causing injuries and death.	Procedures Equipment Training PPE
		Moving Plant	Injuries crushing, strains, death.	Traffic Management Procedures Training
<b>4.</b>	<b>Back Filling and Layer work</b>	Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
		Dust	Inhalation	Procedures

Ref.	ACTIVITY	HAZARD	RISK	MEASURES REQUIRED
				PPE
		Noise	Hearing impairment	Procedures PPE
		Moving Plant	Injuries crushing, strains, death.	Traffic Management Procedures Training
		Pedestrians and children	Injuries crushing, strains, death.	Traffic Management Procedures Training
<b>5.</b>	<b>Paving packing</b>	Ergonomic constrains	Injuries and pain	Procedures and training
		Sun and Heatstroke	Dehydration and death	Procedures PPE Providing Drinking Water
		Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
<b>6.</b>	<b>Compacting</b>	Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
		Dust	Inhalation	Procedures PPE
		Noise	Hearing impairment	Procedures PPE
		Moving Plant	Injuries crushing, strains, death.	Traffic Management Procedures Training
		Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
<b>7.</b>	<b>Kerb laying</b>	Heavy lifting	Injuries and strains	Procedures Equipment Training PPE
		Ergonomic constrains	Injuries and pain	Procedures and training
		Sun and Heatstroke	Dehydration and death	Procedures PPE Providing Drinking Water
		Traffic and moving vehicles	Injuries crushing, strains, death.	Traffic Management Training
		Dust	Inhalation	Procedures PPE
		Noise	Hearing impairment	Procedures PPE
		Moving Plant	Injuries crushing, strains, death.	Traffic Management Procedures Training
<b>8.</b>	<b>Presence of visitors and members the public</b>	Moving plant and equipment	Injuries crushing, strains, death	Procedures Traffic Management Training
		Falling equipment	Injuries and death.	Procedures Equipment Training PPE
		Dust	Inhalation	Procedures PPE
		Noise	Hearing impairment	Procedures

Ref.	ACTIVITY	HAZARD	RISK	MEASURES REQUIRED
				PPE
		Collapsing structures and support	Injuries crushing, strains, death.	Procedures Equipment Training PPE
9.	<b>Brickwork</b>	Heavy lifting	Injuries and strains	Procedures Training PPE
		Ergonomic and posture	Strains and injuries	Procedures Training PPE
		Collapsing structures	Injuries crushing, strains, death.	Procedures Equipment Training PPE
10.	<b>Plumbing and Storm water installation</b>	Cutting grinding	Cuts, bruises and injuries	Procedures Equipment Training PPE
		Dust	Inhalation	Procedures PPE
		Noise	Hearing impairment	Procedures PPE
11.	<b>Moving Vehicles and plant</b>	Traffic accidents	Injuries crushing, strains, death.	Traffic Management Procedures Training

**ANNEXURE 2**

**ACKNOWLEDGEMENT OF RECEIPT**

This document must be completed by the bidding Principal Contractor and all Contractors pricing work on this Project.

Acknowledgement of receipt:

I, \_\_\_\_\_ representing \_\_\_\_\_  
Principal Contractor / Contractor / Employer have satisfied myself with the content of the Health and Safety Specification and shall ensure that the Principal Contractor / Contractor and its personnel comply with all obligations / requirements in respect thereof.

Signature \_\_\_\_\_

Date \_\_\_\_\_

**Principal Contractor / Sub Contractor**

Signature \_\_\_\_\_

Date \_\_\_\_\_

**Client/Agent** \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

**ANNEXURE 3**

**PRINCIPAL CONTRACTOR CONSTRUCTION MANAGER FORM**

I, \_\_\_\_\_, of (company name) \_\_\_\_\_,  
do hereby appoint \_\_\_\_\_ being a full-time employee on the  
\_\_\_\_\_ project, with the duty of CONSTRUCTION MANAGER.

You are appointed in terms of the, OHS Act 85 of 1993 – CR 8(1), your area of responsibility is as follows;

---

Your duties will include but no be limited to:

- Ensuring that all company safety, health and environmental procedures along with any specific client requirements are implemented and adhered to.
- Ensuring that all applicable legislative requirements are implemented and complied with.
- Ensuring that only authorised persons gain access to the construction premises and associated areas.
- Ensuring that all persons are made aware of the hazards associated with their work and that all reasonable measures are implemented to reduce these risks.
- Ensuring that all construction activities are carried out under the control and supervision of competent supervisors.
- Ensuring that all plant and machinery is in a safe working condition and that only trained and authorised persons utilize such items.
- Ensuring that the necessary personal protective equipment made available and used by the appropriate persons.
- Ensuring that all contractors adhere to the health and safety requirements of the contract.
- Ensuring that all injuries and incidents are reported and investigated in the appropriate manner and that suitable measures are implemented to prevent re-occurrences.
- Ensuring that all reasonable steps are taken to ensure the health and safety of all persons employed on the contract and of those who are affected by the construction operations.
- You are to take all reasonable steps to ensure the health and safety of all persons associated with this designation.
- This appointment also entrusts you to assist and advise all employees in ensuring adherence to company and statutory health, safety and environmental requirements. Please familiarise yourself with these requirements and report all deviations and areas of non-compliance, which you cannot rectify to me directly.

SIGNATURE \_\_\_\_\_

DESIGNATION \_\_\_\_\_

DATE \_\_\_\_\_

ACCEPTANCE OF DESIGNATION \_\_\_\_\_

**ANNEXURE 4**

**AGREEMENT WITH MANDATORY**

In terms of Section 37 (1) and (2)  
WRITTEN AGREEMENT ENTERED INTO AND BETWEEN

---

(Herein after referred to as the "CLIENT")

AND

---

(Herein after referred to as the Contractor)

Each page as well as each change made to be initialled.

**DEFINITION OF MANDATORY:**

Includes an agent, a Contractor or Sub-Contractor for work, but without derogating from his status in his own right as an Employer or User.

**SECTION 37 (1)**

Whenever an employee does or omits to do any act which it would be an offence in terms of this Act for the employer or such employee or a user to do or omit to do, then, unless it is provided that: -

- (a) in doing or omitting to do that act the employee was acting without the connivance or permission of the employer or any such user;
- (b) it was not under any condition or in any circumstances within the scope of the authority of the employee to do or omit to do an act, whether lawful or unlawful, of the character of the act or omissions charged, and
- (c) all reasonable steps were taken by the Employer or any such user to prevent any act or omission of the kind in question.

The employer or any such user himself shall be presumed to have done or omitted to do that Act, and shall be liable to be convicted and sentenced in respect thereof; and the fact that he issued instructions forbidding any act or omissions of the kind in question shall not, in itself, be accepted as sufficient proof that he took all reasonable steps to prevent the act or omission.

**SECTION 37 (2)**

The provision of subsection (1) shall *mutates mutandis* apply in the case of a mandatory of employer or user, except if the parties have agreed in writing to the arrangements and procedures between them to ensure compliance by the mandatory with the provisions of this Act.

**ACCEPTANCE BY MANDATORY**

In terms of Section 37 (2) of the OHS Act 85 of 1993,

I \_\_\_\_\_

Representing (Contractor Company Name) \_\_\_\_\_

responsible for carrying out (describe activity) \_\_\_\_\_

at the (contract/site name) \_\_\_\_\_

undertake to ensure that the requirements and provisions of the OHS Act and Construction Regulations are complied with.

\_\_\_\_\_  
Section 16 (2) for Sub-Contractor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Clients Agent

\_\_\_\_\_  
Date

**Annexure 5**

**APPOINTMENT  
CONSTRUCTION REGULATION 5 (1) (k)**

In terms of the above-mentioned regulation:

The Contractor shall submit the following for approval before commencement of any construction work and shall commence with activities only after approval:

1. Letter of Good Standing.CR. 7(1)(c)(iv)
2. Health and Safety file with Health and Safety plan.CR 7.(1)
3. Required appointment letters of relevant responsible persons with proof of competency.CR 8
4. Risk assessment of anticipated activities to be performed on this project. CR 9

I, \_\_\_\_\_ representing

\_\_\_\_\_ (Client), appoint:

\_\_\_\_\_  
(Contractors company name)

to carry out the work of

\_\_\_\_\_  
(Describe activity)

**By this appointment:**

- Your company must ensure that all relevant documentation as required by \_\_\_\_\_ (The Client) Projects Fall protection plan is included.

CONSTRUCTION PROJECT: \_\_\_\_\_

Appointment period:

From \_\_\_\_\_ Until \_\_\_\_\_

**ACCEPTANCE**

I, \_\_\_\_\_ representing \_\_\_\_\_ (Contractors company name) accept this appointment. I am familiar with Occupational Health and safety Act and Construction Regulations as well as the associated duties and responsibilities of this appointment.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

Subcontractor representative

SIGNATURE: \_\_\_\_\_

## **OHS 5 COVID-19**

### **OHS 5.1 Introduction.**

This specification is developed with the objective to Manage Health and Safety on the construction site with the emphasis on Health and preventing the spread and infection of and with the Corona virus.

This Specification is additional to the site-specific H&S Specification and do not reduce or change the contractor's responsibility regarding Health and Safety management on site.

Due to the rapid changing situation this Specification shall be updated and amended as more information and other more conclusive measures are identified and verified.

This specification is subject to all relevant legislative notices regarding the COVID 19 Pandemic and the regulations issued by the South African Government.

### **OHS 5.2 Objective:**

This specification is aimed at maintaining the health and wellbeing of all employed/working on the construction site and related activities as well as all people who might be affected by the construction process where the contractor have any influence or authority.

### **OHS 5.3 Purpose of this specification:**

This specification is a direct response to the current challenges in the work place in regard to the COVID 19 Pandemic and measures to be implemented in order to resume and continue work in an as safe manner as possible and to prevent the spread of infections associated with COVID 19.

### **OHS 5.4 Covid-19 Risk Assessments:**

COVID 19 Risk Assessments have been developed and are attached for reference see Addendum 1C19.

The Risk Assessments are based on current knowledge and available information.

General best practices in line with Government and WHO (World Health Organisation) guidelines propagated as control and mitigation.

### **OHS 5.5 Management Plan and Protocols for Managing Construction operations during COVID 19 Pandemic:**

The Client shall provide a plan with protocols and measures to be implemented. This plan shall cover all aspects that needs to be addressed with instructions, checklists and procedures/protocols to be followed and managed in order to be compliant with current Government notices and regulations issued.

The Contractor shall inform the client of any shortcoming or other issues rendering the plan inefficient or non-compliant.

**OHS 5.6 Implementation of Specification and record keeping:**

The Principal contractor shall implement this plan and keep records of all:

- Communications and awareness
- Training done
- Inspections
- Protocols implemented and managed

**OHS 5.7 Management and Responsibility**

The Principal Contractors Construction Manager CR.8 (1) shall manage this plan with the assistance of his Safety Officer and a dedicated “COVID 19 Coordinator”

**OHS 5.8 Management in relation to construction activities**

In addition to providing PPE as per Risk assessments for H&S Management the contractor shall provide sanitation and wash facilities with soap and water.

Supervisors shall manage work in with social distancing in mind. When work need to be done that require close proximity between workers, the number of workers shall be limited at that activity and appropriate PPE shall be issued to prevent the spreading and possible contamination of infection.

The contractor shall provide additional overalls in order for workers to wash their overalls on a daily basis.

Contractor to implement a cleaning routine for all surfaces that can be contaminated.

All work areas, offices to be cleaned daily and all waste to be removed. Registers to be kept of all cleaning and disinfecting on site.

**OHS 5.9 Compliance Monitoring**

The Clients H&S Agent shall monitor and audit all measures and implemented protocols as required by Government Notices and the relevant Regulations.

Failure to abide by these standards and the guidelines set by Government shall result in the shutdown of the site or parts of it. Non-conformance can also lead to prosecution.

The Client has a duty under the Disaster Management Act to report any contraventions to the relevant Authorities.

<b>Site:</b>		<b>Contractor Sec 16(2)/Project Manager</b>	
<b>Project:</b>		<b>Done by:</b>	
<b>Contractor:</b>		<b>Date:</b>	
<b>Team:</b>			

Risk Rating		SEVERITY / CONSEQUENCE				
		1. Negligible	2. Minor	3. Moderate	4. Serious	5. Major
<b>LIKELIHOOD</b>	1. Very Unlikely	1	2	3	4	5
	2. Unlikely	2	4	6	8	10
	3. Possible	3	6	9	12	15
	4. Likely	4	8	12	16	20
	5. Probable	5	10	15	20	25

<b>1-6 LOW</b>	May be acceptable. Due care to be employed and situation reviewed to see if risk can be reduced further.
<b>7-14 Medium</b>	Possible Precarious situation only allowed to proceed with proper supervision. All available measures employed to reduce Raw Risk.
<b>15-25 High</b>	Situation Critical and cannot be allowed to proceed. Reassess situation continuously to determine best implementable measures for Risk mitigation.

SITUATIONS:	
1.	Someone entering the workplace already infected with CV19
2.	Someone becomes ill within the workplace
3.	Contaminated workplace
4.	Proximity, workplace gatherings (social distancing)
5.	General Ignorance
6.	Self-isolation
7.	Transport and Travel (Travelling across district borders)
8.	Symptomatic or exposed employee(s)
9.	Presenteeism
10.	First Aid Training / CPR Manikin
11.	Lack of accurate information / a failure to disseminate information
12.	Accommodation
13.	Welfare facilities
14.	Plant and Equipment
15.	Consequence Management

Nr	HAZARD				INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/Safety Influenced		Hazard Severity	Likelihood	Risk Rating	List Controls Required	Hazard Severity	Likelihood	Risk Rating
1.	Someone entering the workplace with CV19	Passing the virus on to other employees, causing illness and possible death	Health Safety	5	3	15	<ul style="list-style-type: none"> <li>• Symptomatic individuals will not be allowed entry.</li> <li>• Hygiene requirements (handwashing etc.) and symptoms of CV19 included with Induction.</li> <li>• CV19 Information posters placed in accessible locations in the workplace</li> </ul>	3	1	3	
2.	Someone becomes ill within the workplace	Workers contracting CV19 by any means, causing illness and possible death	Health Safety	5	3	15	<ul style="list-style-type: none"> <li>• Worker removed to a designated area at least 2 metres away from other people.</li> <li>• The individual will be sent home and advised to follow Governmental guidance.</li> <li>• Workplace decontaminated following accepted standards.</li> <li>• Relevant PPE to be issued</li> </ul>	5	1	5	

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli -hood	Risk Rating
3.	Contaminated workplace	Workers catching CV19 due to contaminated surfaces, causing illness and possible death	Health Safety	5	2	10	<ul style="list-style-type: none"> <li>Formal cleaning regime introduced (Employees cleaning equipment and facilities more often).</li> <li>Hand sanitisers to be placed in readily accessible locations.</li> <li>Extra hygiene requirements enforced.</li> <li>Multi-use handtowels not allowed for drying hands.</li> <li>Relevant PPE to be issued</li> </ul>	5	1	5
4.	Physical Proximity during workplace gatherings	Workers catching CV19 due to working closely with infected colleagues, causing illness and possible death	Health Safety	5	3	15	<ul style="list-style-type: none"> <li>Social Distancing policy implemented. All work areas and activities been evaluated for the possibility of implementing social</li> </ul>	5	1	5

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
							distancing (no handshaking, deferring large meetings etc.) <ul style="list-style-type: none"> <li>• Provision of suitable and sufficient PPE;</li> <li>• Demarcation and spacing of queueing areas;</li> </ul>			
5.	General Ignorance	Workers unaware of risks from CV19 and become infected, causing illness and possible death	Health Safety	5	3	<b>15</b>	<ul style="list-style-type: none"> <li>• A formal training program implemented to cover risks, symptoms and control measures. Attendance to all sessions mandatory with attendance registers kept on file as proof.</li> </ul>	5	1	<b>5</b>
6.	Self-isolation of workers	Workers unaware of the need to (or how to) self-isolate, causing further spread of disease and possible death	Health Safety	5	3	<b>15</b>	<ul style="list-style-type: none"> <li>• A formal training program implemented educate workers on</li> </ul>	4	1	<b>4</b>

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
							control measures, including self-isolation. Attendance to all sessions mandatory with attendance registers kept on file as proof.			
Nr	HAZARD	INITIAL RISK	CONTROLS	RESIDUAL RISK	Nr	HAZARD	INITIAL RISK	CONTROLS	RESIDUAL RISK	Nr
7.	Transport and Travel (Travelling across District borders borders)	Travelling across district borders and afterwards returning "Maximum allowed capacity exceeded; No facilities for sanitising vehicles and passengers; No additional protective measures available, e.g. face masks;	Health Safety	5	2	10	<ul style="list-style-type: none"> <li>Adhere to general travel ban by SA Government.</li> <li>Implement alternatives to travel - postpone trips or hold meetings via video conferencing.</li> <li>Selection and provision of transport services compliant with</li> </ul>	5	1	5

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
							gazetted requirements; <ul style="list-style-type: none"> <li>• Policy and procedures and rules for travel, where possible to limit the use of public transport, or to arrange selective methods of transport,</li> <li>• ongoing toolbox talks and supply of cloth masks to be worn when travelling or moving on and off site.</li> <li>• Vehicles maintained at 70% capacity or less;</li> <li>• Vehicles sanitised between trips; hand sanitiser provided for passengers.</li> </ul>			

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likelihood	Risk Rating	List Controls Required	Hazard Severity	Likelihood	Risk Rating
8.	Symptomatic or exposed employee(s)	Workers are symptomatic of CV19 or has been in close contact with someone with CV19, causing further spread of disease and possible death.	Health Safety	5	3	15	<ul style="list-style-type: none"> <li>If worker is unfit for work, they will be booked off sick as per normal policy.</li> <li>Symptomatic employees will be sent home.</li> <li>Colleagues who came in contact with symptomatic workers will be informed of symptoms and advised to contact a doctor for guidance.</li> <li>Working from home will be considered.</li> <li>Relevant PPE to be issued</li> </ul>	5	1	5
9.	Presenteeism	A worker catches CV19 because a colleague continues working despite being unwell, causing further spread of disease and possible death	Health Safety	5	3	15	<ul style="list-style-type: none"> <li>Workers coming in contact with symptomatic ones will be informed of symptoms and advised to</li> </ul>	5	1	5

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
							contact a doctor for guidance. <ul style="list-style-type: none"> <li>Workplace will be decontaminated following Governmental guidance:</li> <li>Relevant PPE to be issued</li> </ul>			
10.	First Aid Training / CPR Manikin	Workers exposed to CV19 due to providing First Aid in the workplace or during CPR Training on Mannequin, causing further spread of disease and possible death	Health Safety	5	2	10	<ul style="list-style-type: none"> <li>Proper training of First Aid staff</li> <li>Use of correct equipment while giving First Aid</li> <li>Maintaining proper mannequin hygiene</li> <li>Relevant PPE to be issued</li> </ul>	5	1	5
11.	Lack of accurate information / a failure to disseminate information	Employees unaware of risks from CV19 get infected due to lack of awareness of control measures, causing further spread of disease and possible death	Health Safety	5	3	15	<ul style="list-style-type: none"> <li>A designated person will be appointed to monitor CV19 by signing up for immediate news updates and monitoring</li> </ul>	5	1	5

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli -hood	Risk Rating
							relevant Websites and News outlets. <ul style="list-style-type: none"> <li>A risk communication plan will be implemented, ensuring timely updating/ sharing of information with all internal &amp; external stakeholders</li> </ul>			
12.	Accommodation	Social density - inability to maintain social distancing, Cross contamination from the lack of social distancing, shared utilities and belongings, shared ablutions, cross infection among inhabitants and cleaning, catering staff					<ul style="list-style-type: none"> <li>Policy and method statement for accommodation and to be reviewed</li> <li>Sleeping and dining quarters to allow for minimum 1.5m space between persons;</li> <li>Dedicated bedding,</li> </ul>			

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
							towels, utensils, soaps etc.; <ul style="list-style-type: none"> <li>• Individual facilities for safe keeping;</li> <li>• Individual, segregated facilities for storage of laundry;</li> <li>• Procedures and rules of occupancy and cleaning;</li> <li>• Induction and primary health promotion to be done regularly.</li> <li>• Isolation area to be available should anyone display symptoms, and safe removal for testing.</li> <li>• Food to be served wrapped</li> </ul>			

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
							and available individually.			
13.	Welfare facilities	Social density - inability to maintain social distancing in, Cross contamination from the lack of social distancing, shared utilities and belongings, shared ablutions, cross infection among inhabitants and cleaning staff					<ul style="list-style-type: none"> <li>Updating of policy, method statements</li> <li>limiting of personnel on site to minimum number required to maintain control and management.</li> <li>Implement and maintain cleaning and disinfecting programme.</li> <li>Site rules for social distancing to 1.5m.</li> <li>Use technology to avoid close proximity between individuals where possible</li> </ul>			

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
14.	Plant and Equipment	No facilities for sanitising vehicle/plant and operators /drivers; No additional protective measures available, e.g. face masks;					<ul style="list-style-type: none"> <li>• Only operator/driver allowed in cab</li> <li>• ongoing toolbox talks and supply of cloth masks to be worn when travelling or moving on and off site.</li> <li>• Vehicles maintained at 70% capacity or less;</li> <li>• Plant/Vehicles sanitised between trips; hand sanitiser provided for passengers.</li> </ul>			
15.	Consequence Management						<ul style="list-style-type: none"> <li>• Revision of policy, method statements and HIRA.</li> <li>• Supervisor/CCO must ensure that workers are updated</li> </ul>			

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likeli - hood	Risk Rating	List Controls Required	Hazard Severity	Likeli - hood	Risk Rating
							<p>daily with all the relevant COVID 19 information through DSTIS/Toolbox talks, notices etc..</p> <ul style="list-style-type: none"> <li>• Supervisor/CCO must ensure that site is updated daily with all the relevant COVID 19 information.</li> <li>• Workers should be updated with new information daily.</li> <li>• Management must ensure that company disciplinary procedures are in place.</li> <li>• All employees should have</li> </ul>			

Nr	HAZARD			INITIAL RISK			CONTROLS	RESIDUAL RISK		
	Hazard Description	Risk	Health/ Safety Influenced	Hazard Severity	Likelihood	Risk Rating	List Controls Required	Hazard Severity	Likelihood	Risk Rating
							knowledge of the company disciplinary procedures. • Work stoppage/site closure where non-compliance exists.			

### C. Acknowledgement and Approval


**ANNEXURE D**  
**CONFORMITY WITH EPWP GUIDELINES**

## FEZILE DABI DISTRICT MUNICIPALITY

### REFURBISHMENT OF THE SEWER PUMP STATION IN TWEELING/ MAF AHLANENG

**BID NO: 011/2024-25**

**EPWP CONFORMITY WITH RDP GUIDELINES**

**EPWP 1 PROJECT MANAGEMENT**

Due to the complexity of the project an established contractor with applicable experience will be contracted for the construction of the works. The contractor will however be required to comply with EPWP objectives and will have to submit proposals in this regard at tender stage. These proposals will become binding on the contractor in terms of the contract once accepted and approved by the Municipality. The proposals should include provision for the employment of local subcontractors on both a conventional subcontract basis and a management contractor basis to create the maximum scope for employment opportunities. In the latter instance the main contractor will be responsible for logistics (e.g. materials and transport) and quality control and the subcontractor will be responsible for the manpower component.

**EPWP 2 COMMUNITY PARTICIPATION AND EMPOWERMENT**

Community participation in the implementation process will focus on the maximum exploitation of opportunities for employment, training and capacity building presented by the project. The established community structures will form the main communication link between the community and the Municipality and councilors will act as the interface between the Municipality and the community.

The implementation framework for the project, which will be established at Municipality level, will be work shopped with community representatives to ensure interaction with and acceptance by the community at large. Contentious issues will be referred back to the Municipality for consideration and amendment of the implementation framework if required.

**EPWP 3 EDUCATION, TRAINING AND CAPACITY BUILDING**

Education, training and capacity building will focus on project related courses or activities and preference will be given to accredited training programmes. Typical project related accredited training programmes are presented by the South African Federation of Civil Engineering Contractors (SAFCEC) and other similar (approved) accredited training will be considered.

Tenderers will be required to submit details of their proposed education, training and capacity building programmes in terms of the Project Specification and these details should include particulars of the proposed training institution. The actual programme for education, training and capacity building will be established in co-operation with the successful tenderer to comply with his proposals for employment and these programmes will become binding on the contractor in terms of the contract once accepted and approved by the Municipality.

Candidates for the training programmes will be selected mainly from unemployed members of the community in close co-operation and consultation with the Municipality and the relevant sub-committee.

#### **EPWP 4 LABOUR INTENSITY**

The aspects of the project representing activities which is either traditionally labour intensive or which could be executed using labour-based methods and for which local labour can be employed must be identified.

Tenderers will be required to submit proposals on training, the optimum use of labour-intensive construction methods and the use of SMME's with their tenders. Their proposals will become binding on the main contractor in terms of the contract once accepted and approved by the Municipality.

#### **EPWP 5 EMPLOYMENT POLICY**

Details of the employment policy will be established by the Municipality or the relevant sub-committee. The employment policy will form part of the Project Specification and the main contractor will be compelled in terms of the contract to comply with the employment policy.

The employment policy will focus on;

- i) maximizing local job creation,
- ii) targeting the most needy (single headed households, unemployed and youth), and
- iii) ensuring opportunities for women and disabled.

#### **EPWP 6 WAGES AND LABOUR STANDARDS**

Wages and labour standards for the project will comply with the Expanded Public Works Programme Framework Agreement and existing statutory requirements applicable to task-based labour. All wage and labour standards' variables will be determined by the Municipality or the relevant sub-committee and will be included in the Project Specification. The main contractor will be compelled in terms of the contract to comply with the applicable wages and labour standards.