



DEPARTMENT OF WATER AND SANITATION

DUE AT 11:00 ON

CLOSING DATE:

08 JANUARY 2026

WTE-2535ES

GOEDERTROUW DAM: BOZAS HOUSE ASBESTOS REMOVAL AND REHABILITATION

SUBMIT BID DOCUMENTS TO:

POSTAL ADDRESS:

OR

TO BE DEPOSITED IN:

WATER AND SANITATION
PRIVATE BAG X 24
HOWICK, 3290

THE BID BOX AT THE ENTRANCE
GATE OF MIDMAR DAM
R103 PROSPECT ROAD
MIDMAR DAM
HOWICK, 3290

Compulsory Briefing Session

Date: 15 DECEMBER 2025

Time: 11:00am

Venue: 1 BOZAS STREET, ESHOWE

BIDDER: (Company Address OR Stamp)

**COMPILED BY:
DEPARTMENT OF WATER AND SANITATION**



DEPARTMENT OF WATER AND SANITATION

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T1 TENDERING PROCEDURES

T1.1 INSTRUCTIONS TO BIDDERS

1. ISSUING OF DOCUMENTS

- (a) A complete sets of bid documents are issued to a prospective Bidder.
- (b) Bidders must satisfy themselves that the document is complete and conform to the index of this document. Should any figures or writing be indistinct or should any pages be missing from this document or should this document or the drawing(s) contain any obvious errors, the Bidders must immediately notify the Department in order to have any discrepancy rectified or clarified before submitting his bid. Such clarification will be valid only if made by the Department by means of formal amendment as described hereunder prior to the date of submission of bids. The Department may issue amendments to clarify or modify the Bid Documents. A copy of each amendment will be issued to each bidder and shall be acknowledged on the form issued with the amendments. No claim whatsoever will be entertained for faults in the bid price resulting from the above-mentioned discrepancies.
- (c) No alterations, omissions or additions shall be made to this document, but should it be deemed necessary to do so, the Bidder is at liberty to qualify his bid.
- (d) All Bidders shall be deemed to have waived, renounced and abandoned any conditions printed or written upon any stationery used by them for the purpose of or in connection with the submission of bids which are in conflict with the conditions laid down in this document.
- (e) Each page of the completed document that will be submitted should be initialled by the Bidder at the bottom of the page.

2. QUERIES WITH RESPECT TO THIS BID

Queries of a specific technical nature may be discussed personally or telephonically with **Mr. Nirdosh Punchum** at **0332391266** / punchumn@dws.gov.za or may be directed in writing to: The Director: Eastern Operations, Department of Water and Sanitation, Private bag X24, Howick.

3. COMPLETION OF BIDS

- (a) The bid must be signed on the Invitation to Bid form (SBD 1) annexed hereto with all blanks in the bid and the appendix filled in.
- (b) All spaces in the bid forms and other annexures shall be completed in full.
- (c) **SBD 3.1 in the bid document and the Pricing Schedule must be fully completed and priced out by the bidder. Failure to do so will deem your bid invalid.**
- (d) The bid documents shall not be separated in any way nor must any pages be detached from the original documents.

4. SUBMISSION OF BIDS

The Bid Document shall be completed, signed and submitted as follows:

- (a) The original Bid, together with a covering letter and supporting documents, shall be sealed in an envelope endorsed:

ORIGINAL BID FOR WTE-2535ES: BOZAS HOUSE ASBESTOS REMOVAL AND REHABILITATION

- (b) Bids sealed and endorsed as above, will be received by: The Supply Chain Management Office or may be deposit in the bid box at the entrance of **Department of Water and Sanitation, R103 Prospect Road, Howick** and not later than **11:00** on the date stipulated on the front cover of this document.

5. SIGNATURE ON BIDS

The Bid, if by an individual, must be signed by that individual or by someone on his behalf duly authorised thereto and **proof of such authority must be produced**. If the bid is by a Company, it must be signed by a person duly authorised thereto by a Resolution of a Board of Directors a copy of which Resolution, duly certified by the Chairman of the Company is to be submitted with the bid.

The successful bidder will be required to submit a "Letter from the manufacturer" confirming the supply arrangement within 14 days after the approval of the bid.

If the bid is submitted by joint venture of more than one person and/or Companies and/or firms it shall be accompanied by the following:

- (a) The original or a notarially certified copy of the original document under which such joint venture was constituted which must define precisely inter alia the conditions under which the joint venture will function, its period of duration and the participation of the several constituent persons and/or companies and/or firms.
- (b) A certificate signed by or on behalf of each participating person and/or company and/or firm authorising the person who signed the bid to do so.

6. GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract, as attached shall be regarded as an integral part of the contract documents.

7. PERIOD OF VALIDITY OF QUOTATIONS AND WITHDRAWAL AFTER CLOSING DATE

All quotations shall remain valid for a period of **one hundred and twenty days (120)** after the closing time and date set.

8. TELEGRAPHIC BIDS

No bid forwarded by telegram, telex, facsimile, e-mail or similar apparatus will be considered.

9. THE DEPARTMENTS RIGHT TO DECLINE ANY BID

The Department does not bind itself to accept the lowest or any bid. Bids not complying with the above-mentioned requirements and specifications may be regarded as incomplete and may not be considered.

10. ACCEPTANCE OR REJECTION

Quotations may be rejected if they show any departure from the conditions or specifications contained in the quotation documents or are incomplete in any way. The employer **does not bind him** to accept the lowest or any quotation and reserves the right to accept any quotation he may deem expedient, nor will he assign any reason for the acceptance or rejection of any quotation.

11. DEPARTMENT NOT LIABLE FOR BIDDER'S EXPENSES

The Department will not be held liable for any expenses incurred in preparing and submitting bids.

12. PAYMENTS UNDER THE CONTRACT

All payments due to the Bidder in terms of the contract will be done by means of Electronic Fund Transfer. The evaluation committee will be following a phased approach during evaluation.

T1.2 EVALUATION CRITERIA

DWS will evaluate all proposals according to the preferential Procurement Regulations 2022 and submissions will be adjudicated on 80/20 system and the evaluation criteria. Four phase evaluation will be considered in evaluating the bid. Upon receipt of the proposals, the evaluation criteria shown below will be used to select a suitable bidder.

The evaluation process includes the following phases:

- Phase 1: Mandatory Compliance
- Phase 2: Technical Compliance
- Phase 3: Administration Compliance
- Phase 4: Price and Specific Goals (80/20) preferential system)

Phase 1: Mandatory Compliance

Failure to submit any of the documents listed below will render your bid non-responsive and the bid will be disqualified.

No	Criteria	Yes	No
1	CIDB minimum 2 SQ		
2	Attendance of compulsory briefing session and service provider to sign the attendance register during the briefing session		
3	SBD3.1 (fully completed and signed)		
4	Bill of Quantities (fully completed and signed)		

Phase 2: Technical Compliance

Compliance requirements:

- Full compliance to the technical requirements by indicating compliance or non-compliance as per specification spread sheets (table). Bidders must indicate compliance by means of a (Yes) and non-compliance by means of a (No).
- A bidder who fails to comply with the below requirements in full will be considered non-responsive and may be disqualified from further evaluation.

Criteria	Sub-Criteria	Comply Yes / No
Team capability	Team capability- Demonstrated skills and experience of key personnel for this project, limited to the Project Manager or Site agent. <ul style="list-style-type: none"> • An Organogram with personnel relevant to the project (ie artisan/Plumber with trade test) • Attach 1 page resume of Project Manager or Site Agent indicating, amongst others, relevant qualifications, experience, accreditation/affiliation (where relevant), etc. Artisan/Site Agent with 2 or more years fencing / construction experience. 	
Proposed maintenance programme	Proposed maintenance programme- Provides a detailed list of tasks necessary to complete the works, tasks a specific to the project and encompass maintenance milestones Appropriate timeline and time estimates	
Past relevant work experience	Past relevant work Experience - One (1) award letters, completion certificates and verifiable completion certificates of which the scope of work is relevant to the project scope as prescribed in the project specification.	
Methodology	Methodology- Items (a-g) must be clearly outlined in the detailed method statement. <ul style="list-style-type: none"> a) Work Sequence b) Time c) Resources d) Associated Health, Safety and Environmental Assessments e) Control Measures f) Welfare Facilities Work Method etc. Content, Clear, detailed presentation of the scope of work with full understanding and a logical structure.	

Phase 3: Administrative Compliance

Bidders are required to comply with the following listed below.

No	Criteria	Yes	No
1.	Companies must be registered with National Treasury's Central Supplier database must submit CSD report. Provide MAAA number on SBD1.		

2.	Tax compliant with SARS (to be verified through CSD and SARS). Attach Tax Compliant status PIN page.		
3	Active registration with Company Intellectual Property Commission (to be verified through CSD and CIPC). Attach copy of Bidder's CIPC/CIPRO certificate.		
4	A valid copy of B-BBEE Status Level Verification Certificate or a valid original sworn affidavit (failure to submit, the Bidder will forfeit the relevant points allocated for B-BBEE under specific goals).		
5	A valid letter of Good Standing with the Compensation Commissioner in terms of the Compensation for Occupational Injuries and Diseases Act No 130 of 1993 and or third parties' insurance registered with Financial Service Board (COIDA).		
6	Letter of appointment of duly authorized person to sign bid. Proof of such authority must be submitted with the bid. If by an individual, must be signed by that individual or by someone on his behalf duly authorised thereto and proof of such authority must be produced. If the bid is by a company, it must be signed by a person duly authorised thereto by a Resolution of a board of Directors a copy of which Resolution, duly certified by the Chairman of the Company is to be submitted with the bid.		
7	Complete, sign, submit SBD1, SBD3.1, SBD4, SBD6.1, ANNEXURE C		

PHASE 4: PRICE AND SPECIFIC GOALS

The 80/20-point system will be used in evaluating all proposals.

Evaluation element	Weighting (Points)
SPECIFIC GOALS	20
PRICE	80
Total	100

Price

A maximum of 80 points are allocated for price on the following basis

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where:

P_s = Points scored for comparative price of bid under consideration
 P_t = Comparative price of bid under consideration
 P_{\min} = Comparative price of lowest acceptable bid

Preference Point System (Specific Goals)

SPECIFIC GOALS	NUMBER OF POINTS TO BE ALLOCATED
Women	5
People with disability	5
Youth (35 and below)	5
Location of enterprise (Province)	2
B-BBEE status level contributors from level 1 to 2 which are QSE or EME	3
Total points for SPECIFIC GOALS	20

Documents requirement for verification of points allocation:

Procurement Requirement	Required Proof Documents
Women	Full CSD Report
Disability	Full CSD Report
Youth	Full CSD Report
Location	Full CSD Report
B-BBEE status level contributors from level 1 to 2 which are QSE or EME	Valid BBBEE certificate/sworn affidavit Consolidated BEE certificate in cases of Joint Venture Full CSD Report

The definition and measurement of the goals above is as follows:

Women, disability, and youth:

This will be measured by calculating the pro-rata percentage of ownership of the bidding company which meets this criterion. E.g., Company A has five shareholders each of whom own 20% of the company. Three of the five shareholders meet the criterion, i.e. they are women/disability/youth. Therefore, this bidder will obtain 60% of the points allowable for this goal.

Location of enterprise

Local equals province. Where a project cuts across more than one province, the bidder may be located in any of the relevant provinces to obtain the points.

B-BBEE status level contributors from level 1 to 2 which are QSE or EME

Measured in terms of normal BBBEE requirements.

Note: Formula for calculating points for specific goals

Preference points for entities are calculated on their percentage shareholding in a business, provided that they are actively involved in and exercise control over the enterprise.

The following formula is prescribed:

$$PC = Mpa \times \frac{P\text{-own}}{100}$$

100

Where

PC = Points awarded for specific goal
Mpa = The maximum number of points awarded for ownership in that specific category
P-own = The percentage of equity ownership by the enterprise or business

Should you require any further information in this regard, please do not hesitate to contact:

Name:	Nirdosh Punchum
Tel:	033 2391266
Mobile:	060 5874655
Email:	punchumn@dws.gov.za

T1.3 LIST OF RETURNABLE DOCUMENTS AND SCHEDULES

a) SBD Forms to be completed and signed

The Bidder must complete and attach the following Returnable Documents:

- | | | |
|--------|--|--------------------------|
| SBD1 | Invitation to Bid | <input type="checkbox"/> |
| SBD3.1 | Pricing Schedule – Firm Prices | <input type="checkbox"/> |
| SBD4 | Declaration of Interest | <input type="checkbox"/> |
| SBD6.1 | Preference Points Claim Form in terms of the Preferential Procurement Regulations 2022 | <input type="checkbox"/> |

b) Returnable Schedules required for Bid Evaluation purposes

- | | | |
|----|---|--------------------------|
| A: | Certificate of attendance of briefing session | <input type="checkbox"/> |
| B: | Bill of Quantities (BOQ) | <input type="checkbox"/> |

c) Other Documents required for Bid Evaluation purposes

- | | | |
|----|--|--------------------------|
| 1: | Company/business registration certificate (CK) issued by the Commissioner of Companies & Intellectual Property Commission (Joint Ventures/Close Corporation/Partnership/Company/Sole Proprietor) | <input type="checkbox"/> |
| 2: | An original valid Tax Clearance Certificate issued by the South African Revenue Services. | <input type="checkbox"/> |
| 3: | Certified copies of Identity Documents of shareholders | <input type="checkbox"/> |
| 4: | B-BBEE Status Level Verification Certificate or Sworn Affidavit | <input type="checkbox"/> |
| 5: | Letter of Authority indicating the person who will be authorized to sign bidding documents and contract on behalf of bidder | <input type="checkbox"/> |
| 6: | General condition of a contract, signed | <input type="checkbox"/> |
| 7: | CSD Reports (comprehensive) | <input type="checkbox"/> |
| 8: | Check list of returnable documents | <input type="checkbox"/> |

SBD 1 PART A: INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	WTE-2535ES		CLOSING DATE: 08 JANUARY 2026		CLOSING TIME: 11:00am
DESCRIPTION	BOZAS HOUSE ASBESTOS REMOVAL AND REHABILITATION				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
THE BID BOX AT THE ENTRANCE OF WATER AND SANITATION – MIDMAR DAM					
R103 PROSPECT STREET					
HOWICK, 3290					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	GERDA LAMPRECHT		CONTACT PERSON	Mr. N. Punchum	
TELEPHONE NUMBER	033-2391310			033 239 1266 / 060 587 4655	
E-MAIL ADDRESS	lamprechtg@dws.gov.za		E-MAIL ADDRESS	punchumn@dws.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		[TICK APPLICABLE BOX] <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 THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?					<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?					<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?					<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?					<input type="checkbox"/> YES <input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?					<input type="checkbox"/> YES <input type="checkbox"/> NO
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 BELOW.					

PART B
TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:



SBD 3.1

PRICING SCHEDULE – FIRM PRICES
(PURCHASES)

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

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

Name of bidder.....

Bid number: WTE-2535ES

Closing date: 08 JANUARY 2026

Closing Time 11:00

OFFER TO BE VALID FOR **120 DAYS** FROM THE CLOSING DATE OF BID.

ITEM NO.	DESCRIPTION OF GOODS	QTY	UNIT PRICE (To be filled by the bidder)	BID PRICE (To be filled by the bidder)
1	A Preliminary and General	Sum		
2	B Maintenance Work	Sum		
			15% VAT	
			TOTAL BID PRICE	

- **Required by:** EASTERN OPERATIONS
- **Att:** SUPPLY CHAIN MANAGEMENT
- **Brand and model**
- **Country of origin**
- **Does the offer comply with the specification(s)?** *YES/NO
- **If not to specification, indicate deviation(s)**
- **Period required for delivery**
*Delivery: Firm/not firm
- **Delivery basis**

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

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

***Delete if not applicable**

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the Bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

- 2.1 Is the Bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.2 Do you, or any person connected with the Bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the Bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name).....
in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 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 consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 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.

² 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.

3.5 There have been no consultations, communications, agreements or arrangements made by the Bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the Bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 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.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

**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

1.2 To be completed by the organ of state

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

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

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

2. DEFINITIONS

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

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

80/20 or

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

Where

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

4. POINTS AWARDED FOR SPECIFIC GOALS

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

Table 1: Specific goals for the tender and points claimed are indicated per the table below.
(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points Claimed (80/20 system) To be completed by the Tenderer
Women Ownership	5	
Disability Ownership	5	
Youth Ownership	5	
Location of enterprise (local equals province) Western Cape	2	
B-BBEE status level contribution from level 1 to 2 which are QSE or EME	3	

DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

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

- i) The information furnished is true and correct.
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.

- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

SIGNATURE(S) OF TENDERER(S)	
SURNAME AND NAME:
DATE:
ADDRESS:

LOCAL CONTENT ANNEXURE C (if applicable)

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

(C1) Tender No.
(C2) Tender description:
(C3) Designated product(s)
(C4) Tender Authority:
(C5) Tendering Entity name:
(C6) Tender Exchange Rate:
(C7) Specified local content %

Note: VAT to be excluded from all calculations

Pula EU GBP

Calculation of local content							
Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

Tender summary			
Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value R 0
(C21) Total Exempt imported content R 0
(C22) Total Tender value net of exempt imported content R 0
(C23) Total Imported content R 0
(C24) Total local content R 0
(C25) Average local content % of tender



C1: CONTRACT DATA


C1.1 GENERAL CONDITIONS OF CONTRACT

C1.2 SPECIAL CONDITIONS OF CONTRACT (If applicable)

C1.3 QUESTIONNAIRES

C2. PRICING DATA

C2.1 BILL OF QUANTITIES

<div style="display: flex; justify-content: space-between; align-items: center;">  <div> water & sanitation Department: Water and Sanitation REPUBLIC OF SOUTH AFRICA </div> <div style="text-align: right;"> Contract No WTE-2535ES: Maintenance Work at Boza's House Pricing Data - Bill of Quantities </div> </div>						
ITEM NO	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A		SECTION 1 - PRELIMINARY AND GENERAL (GENERAL SMALL WORKS) SANS 1200 AA				
1	8.3	SCHEDULE FIXED CHARGE AND VALUE RELATED ITEMS				
	8.3.1	Contractual Requirements	Sum	1		
	8.3.2	Provision of Facilities on site				
		b) Facilities required by contractor	Sum	1		
		(i).....				
		(ii).....				
		(iii).....				
		(iv).....				
	8.3.3	General responsibilities and other Fixed-charge obligations	Sum	1		
		(i).....				
		(ii).....				
		(iii).....				
		(iv).....				
	8.3.4	Removal of Site Establishment	Sum	1		
		SECTION OHS 193 SAFETY SPECIFICATION				
		1. Appointment of a Health and Safety officer for the duration of the project.	Sum	1		
		2. OHS Compliance according to the OHS Act no. 85 of 1993 and Regulations.	Sum	1		
	4	Asbestos removal, storage and disposal as per Asbestos Abatement Regulations				
		AMOUNT CARRIED FORWARD (A)				

ITEM NO	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B		SECTION 2 - BUILDING WORKS <u>MAINTENANCE WORK</u> <u>Boza's House 1</u> <u>Bedroom 1</u> Install 4 panel townhouse door + lockset Remove old curtain rails Venetian blinds to be installed 1,2x0,6x3 + 1,1x0,67 Ceiling cornices need to be filled and painted, clean walls, ceiling and floor tile 2(2,6x3,3) + 2(2,6x4) Wooden window frames need to be replaced with aluminium Replace sliding door with aluminium charcoal 2,1 x 1,8m Floors to be tiled porcelain as per specs 3,3 x 4 m Exterior 20w LED blister light, interior 10w LED <u>Bedroom 2</u> Remove old built-in cupboards & shelve Remove old curtain rails Install new built-in and shelves to specs 1,6m x 2,6m Install 4 panel townhouse door + lockset Window to be replaced 1,220x1,10m charcoal aluminium Venetian blinds to be installed 1,220 x 1,10 Ceiling cornices need to be filled and painted, clean walls, ceiling 2(3,2x2,6) + 2(2,9x2,6) Floors to be tiled 3,2mx2,9m Interior 10w LED <u>Bedroom 3</u> Install new built-in and shelves to specs Install 4 panel townhouse door + lockset Install floor tiles 3,2 x3,2 Venetian blinds to size to be installed Walls to be cleaned and painted 2(3,2x2,6) +2(3,2x2,6) Ceiling to be cleaned and painted Install 10w LED light <u>Exterior work on front view of house</u> Wooden Window replacement to aluminium 1,24mx1,4m Install venetian blinds 1,24x1,4 Veranda area 2(2,5m,2,6) + 2(7x2,6)m Ceiling under veranda needs to be cleaned and painted 2,5m x 7m + 17mx2m Sliding door lock aluminium door to be replaced Hand rails to be cleaned, rust proofed and painted 14m x 1,2m Remove old curtain rails Clean walls, ceiling and floor tiles and walls to be painted (17m x 2,5) + 2,6m x 17m Interior 20w LED under veranda	Each Each Each m² Each Each m² units Each Each unit Each Each Each m² m² unit Each Each m² Each m² m² each Each Each m² m² m² m² m² Each m² m² unit	1 2 2 33,58 2 1 13,2 2 1 1 1 1 1 1 31,82 9,28 1 1 1 10,24 2 33,28 10,24 1 1 1 33,8 17,5 1 16,8 1 106,3 1		

ITEM NO	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		The Downpipes 3 x 3m & gutters 17m replaced with PVC	m	26		
		Lounge door exterior wooden needs to be varished	unit	1		
		Trelli door needs to be cleaned, rust proof and painted	unit	2		
		Wooden truss beams need to be painted	each	20		
		Veranda roof tiles need to be high pressure cleaned 17mx2m	m²	34		
		-				
		<u>Right wall exterior maintenance</u>				
		Garage window 1,64m x 0,72m wooden to aluminium charcoal	Each	1		
		Maids room window 0,60 x 0,72	Each	1		
		Wall cracks to be polyfilled, sandpapered and painted 7,6x6	m²	45,6		
		Facebrick needs to be cleaned 7,6 x 0,5m	m²	3,8		
		sidewalk to be paved 1m x 9m	m²	9		
		Paving to be cleaned 3m x 7m	m²	21		
		<u>Work to be done on rear Exterior of House</u>				
		Asbestos removal, storage and disposal 17m x 7m	m²	119		
		Timber truss beams need to be maintained	each	30		
		Water proofing to be installed 17 x 7	m²	119		
		Roof tiles to be installed	m²	120		
		LED 20w Day night sensor & Light x3	each	3		
		Roof apexes 2x7x0,2 + 1x17x0,2 need to be cleaned, painted	m²	6,2		
		Fascia boards	m	17		
		Kitchen veranda (5m x 4m) awning to be removed	m²	20		
		New timber beams to be installed	length	16		
		Walls 17m x 2,6m strip, polyfill, sandpaper & paint	m²	44,2		
		Bathroom window wooden to be replaced aluminium 1,25x0,6	each	1		
		Bedroom 3 window wooden to be replaced aluminium 1,1x1m	each	1		
		sidewalk paving 1m x 7m	m²	7		
		Maids room doors exterior 2,010m x 0,9m	each	2		
		Maids room toilet and washbasin	each	1		
		Maids room ceiling and walls 2(1,09m x 1,05m x height 2.7m) + Passage 1.2m x 1.00m x 2,7m	m²	16,69		
		Facebrick 7,3 x 0,5m	m²	3,65		
		Gutters 1 x 17m	m	17		
		Downpipe 2 x 3m	each	2		
		<u>Work to be done on Left View Exterior of the House</u>				
		Burglar bars 2 x 4m x 0,25m strip, rustproof and paint	m²	2		
		Walls to kitchen veranda 2x4x2	m²	16		
		Crack repairs polyfilla, sandpaper and paint	m²	5		
		Bedroom 3 window (4) 1,1x0,7 Aluminium charcoal	each	1		
		En-suite toilet(5) window 0,65x0,53 Aluminium charcoal	each	1		

ITEM NO	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Walls 7,6m x 6m needs to be stripped, sandpaper & paint	m ²	45,6		
		Face brick 7,6m x 0,75m needs to be high pressure cleaned	m ²	5,7		
		Paving / sidewalk to be cleaned 1m x 7m	m ²	7		
		<u>Kitchen</u>				
		Stable door and frame to be installed 2,05x0,905	Each	1		
		Floor to be tiled 2,75m x 4,25m	m ²	11,69		
		Splash back tiles above sink 3m x 3m	m ²	9		
		Kitchen interior walls to be polyfilled, sandpapered painted	m ²	32,2		
		New stove, hob oven and extractor	Each	1		
		New light switches and plug points	Each	3		
		Kitchen ceiling and cornices need to be cleaned filled painted	m ²	11,69		
		New sink, tap as per specs	each	1		
		New BIC as per drawings	Each	1		
		<u>Toilet x 2</u>				
		Old wooden windows to be replaced with charcoal aluminium	Each	2		
		Ceiling cornices to be filled and painted.	m ²	2		
		Door to be replaced with 4 panel Townhouse door and SABS lockset	Each	2		
		Clean walls, ceiling and floor tiles and touch up paint if necessary	Each	1		
		Remove old toilet system and install new	Each	1		
		<u>Bathroom</u>				
		Windows to be replaced x 2 to size with blinds	Each	2		
		Bathroom ceiling to be cleaned and painted 1,8x1,7x2	m ²	6,12		
		Tiling and grouting to be completed on walls and floor	m ²	10		
		<u>Passage</u>				
		Ceiling cornices need to be filled and painted (4,7x1,4m)	m ²	6,58		
		Install porcelain tiles with skirtings	m ²	9		
		Clean walls, ceiling and paint 4,7x2,6*2 + 1,4*2,6*2	m ²	16,58		
		<u>Fencing</u>				
		Gate to be supplied internally	each	1		
		Fencing: Diamond wire mesh 30mmx30mmx1,8m H x 30m	roll	1		
		Posts 100mm diameter 3m long x 6 required	each	6		
		Foundation concrete 1m x 1m x 0,5m x 6 (15mpa)	m ³	3		
		Y standards 2,5m lengths	each	5		
		TOTALS (B)				



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Maintenance work at Boza's House

Pricing Data - Bill of Quantities

SUMMARY OF BILL OF QUANTITIES

SECTION	DESCRIPTION	AMOUNT
A	PRELIMINARY AND GENERAL	R
B	MAINTENANCE WORK	R
TOTAL CARRIED TO SBD3.1 FORM OFFER		R
DATE:		SIGNATURE OF TENDERER:

C3: SCOPE OF WORKS

Site clearing and establishment

Marking / pegging out

Excavation of foundation for all fencing Posts

Delivering and storage of material on site

Installation of Fencing posts

Installation of Corner posts

Installation of Gate posts

Installation of Fence

Installation of Turnstile

Installation of Barbed razor wire

Tidy Site & Handover

C3.1 Technical Specification



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

BRANCH: INFRASTRUCTURE MANAGEMENT

CD: WATER RESOURCES INFRASTRUCTURE OPERATIONS AND MANAGEMENT

D: OPERATIONS EASTERN

SUB-DIRECTORATE: TECHNICAL SUPPORT SERVICES (TSS)

TECHNICAL SPECIFICATION

MHATUZE RIVER GWS: GOEDERTROUW DAM: MAINTENANCE OF HOUSE 1 BOZA'S STREET

JUNE 2025

REF NO: EO-MMD-C-011 – 2025 2026

INDEX TO TECHNICAL SPECIFICATION

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1 INTRODUCTION	8
1.1 General background information.....	8
1.2 Directions to the dam – construction site.....	8
2. SCOPE OF WORK.....	9
3. APPLICATION OF CLAUSES.....	9
4. MATERIALS AND METHODS.....	10
5 CONDITIONS OF CONTRACT.....	25
6 OCCUPATIONAL HEALTH AND SAFETY.....	33
7 MODIFICATIONS.....	34
8 MEASUREMENT AND PAYMENT.....	35
9 BILL OF QUANTITIES.....	35
10 DRAWINGS AND SPECIFICATIONS.....	<u>35</u>

TECHNICAL SPECIFICATIONS WATER CONTROL AND GUEST HOUSE MAINTENANCE

1. Introduction

1.1 General background information

Boza's House 1 is set on Bozas street in the town of Eshowe. It is one of two houses belonging to the Department of Water and Sanitation, with House 1 being occupied by DWS staff and House 2 by Mhlatuze Water situated on Dr Mangosuthu Buthelezi Drive.

The coordinates of the Bozas House 1 is: 28° 53' 21.45" S 31° 27' 16.18" E

1.2 Directions to the House

From the N2 North take the exit 277 for R66 toward Gingindlovu/Eshowe/Ulundi and follow the road for approximately 27.8 km. Turn left onto Kangela Street and proceed 2,5km. Then turn right onto Bozas Street. The house will be the second on the left.



Bozas Street- House 1



Figure 1



Figure 2

In figure 1, we see the front view of the house which has tiles over the veranda, whilst in figure 2 we see the rear view of the house which has asbestos that needs to be replaced with tiles.

2. SCOPE OF WORK

General overview of the work that needs to be done. Specifications and drawings will quantify per house.

Interior	Remove old kitchen built-in cupboards
	Replace sliding door and gate lounge
	Tile passage and bedroom floor
	Tile bathroom and shower x 2
	Paint interior walls and ceilings
	Replace lounge sliding door
	Replace kitchen stable door
	Install BIC all three bedrooms
	Maintain en-suite shower, washbasin and window
	Replace all windows and interior doors with townhouse 4 panel doors
	Install and maintain burglar bars on windows and external doors
	Install venetian blinds on all windows
Exterior	Asbestos removal area: 7.7m x 16.8m = 129.36m ² Tile to be installed same area
	Painting walls exterior
	Rear veranda needs new beams and IBR sheeting 4.4m x 4.4m = 19.36 m ²

3. Application of Clauses:

- 3.1 The materials and methods to be used in the execution of this contract shall be in accordance with the various clauses in this specification, in so far as they apply (e.g., where drains are shown on the drawings to be connected to a municipal sewer, the clause on french drains would obviously not apply or where no ceilings are installed, obviously specifications regarding ceilings would not apply).
- 3.2 **All work, methods and materials described in these clauses under subsection 1 of this section B (I) are intended to amplify the rest of the specifications contained in subsections 2 to 12 of this section B (I), and the drawings, and in certain instances to modify the contents.**
- 3.3 Should any discrepancy appear between clauses in subsection 1 and the rest of the specifications, these clauses shall take precedence. Subsections 2 to 12 are the general standard for workmanship and materials to comply with in this contract. See also column in Schedule of Quantities marked REF (reference) for applicable clause.
- 3.4 All work **shall in addition comply with SABS Code 0400 of 1990** (National Building Regulations as amended).
- 3.5 SABS 1200
- (a) Preliminary & General costs shall be according to SABS 1200 A.
 - (b) Groundworks (pipe trenches) shall be according to SABS 1200 DB.
 - (c) Bedding (pipes) shall be according to SABS 1200 LB.
 - (d) Medium pressure pipelines shall be according to SABS 1200L.
- 3.6 **Bargeboards** shall be 230x80 socketless fibre cement, with H profiled jointers where necessary and fitted to gable ends, primed, and painted. Barge boards shall be fixed to 76 x 38 timber beams fixed to 76 x 38 x 300 long timber sprockets which shall be fixed with 75 mm long brass counter sunk screws (dia No. 14) underneath overhanging end of every third tile batten. Bargeboards shall be screwed to

supporting beam with an indented hexagon head (unslotted) steel self-tapping Electro-plated roof screw (size M6 x 50) with 20mm dia galvanised washer and neoprene seal backing. All exposed roof timber overhanging the walls shall be treated with creosote prior installing of membrane, roof tiles, bargeboards and fascias.

3.7. Where alternative materials and methods are specified, the following only shall apply to this contract:

- 3.7.1 The **roof covering** to the building shall be **concrete tiles** on 38 x 38 SA Pine battens at maximum 320 mm centres on Sisalation RSA 420 membrane on mesh ref. 193 fixed to trusses with U-nails. Colour and type of roof tiles shall be standard brown Marley Double Roman or similar product approved by the Engineer.

Roof trusses shall be at maximum 760mm centres. Timber for roof trusses shall be SA Pine Grade 6 with sizes as shown on the drawings. Prefabricated trusses, where applicable, shall be according to the Supplier's engineering design. A professional engineer shall issue a certificate stating full responsibility for the safe design of the trusses. All timber shall be CCA (Copper Chrome Arsenic) treated prior to fabrication.

The roof overhang rafter pieces (from wall plate extending to outside of building) shall be treated with Creosote or Carbolinium solution prior to erection of the roof trusses. See clause 5.6 and 5.7.

- 3.7.2 **Flashings, gutters and rainwater pipes** shall be of **galvanised sheet metal** as specified in clause 9.24 and painted with galvogrip metal etch primer and one coat roof paint to match the roof colour.

4. MATERIALS AND METHODS

4.1 PRELIMINARY AND GENERAL CLAUSES

- 4.1.1 Director-General - The term "Director-General", where used in this Specification, shall mean the Director-General for the Department of Water and Sanitation or his duly appointed representative.
- 4.1.2 Conditions of contract - The "Articles of Agreement", to be entered into and the "Conditions of Contract" are contained in the "Lumpsum Contract Agreement" of the Department of Water and Sanitation, which document may be perused at Head Office or at the offices of the various Regional Representatives. Tenderers are referred thereto for the full intent and meaning of all clauses, as no claim for extras resulting from the contractor's ignorance of such clauses shall be entertained.
- 4.1.3 Tender to be on official form - Tenderers must submit their tenders on the official FORM OF TENDER supplied for that purpose, which must be completed in all particulars. If the form of tender is amended in any way, such tender might be regarded as qualified and in validated accordingly.
- 4.1.4 Interpretation of tender documents - The tenderer must check the documents issued to him and, if any part or parts thereof are found to be missing, duplicated, illegible or insufficiently described, or if the documents contain obvious errors or discrepancies, he should apply immediately to the Director-General for clarification, failing which the Contractor shall be liable to make, at his own expense, any alterations or substitutions to the works rendered necessary through incorrect interpretation of such documents. In the event of discrepancies between the drawings and specifications, the latter shall apply.

It is to be clearly understood that this is a Lumpsum Contract, which makes provision only for the re-measurement of certain items as specified in the "Schedule of Quantities".

The specification and drawings describe, as far as it is possible, the work to be done and materials to be used, but everything incidental to the works or not described but clearly implied, shall be performed by the Contractor.

- 4.1.5 View site - Tenderers are advised to visit the site on which the buildings are to be erected and to make themselves thoroughly acquainted with the nature of the site and soil conditions, facilities for access, the conditions under which the work is to be executed, all other matters which may influence the works and any restrictions or conditions which may be imposed by Municipal or other Authorities, as no claim will be entertained on the grounds of ignorance of such conditions.
- 4.1.6 Site pegs - The Survey Pegs of the site will be pointed out to the Contractor, who must deposit with the Director-General a written receipt in respect thereof and take full responsibility thereafter for the work being set out correctly in accordance therewith and for any peg displacements or cost of resurveying.
- 4.1.7 Dimensions, etc. - All weights and measures shall be taken to be to the metric system, in accordance with the Systeme International d'Unités (SI). Figured dimensions are to be followed in preference to scaled measurements.

As the sizes of some materials and articles are subject to changes due to metrication, the approval of the Director-General to use sizes other than those specified shall not be unreasonably withheld.
- 4.1.8 Materials and workmanship - The work shall be executed with materials of the best quality and in the most substantial manner and to the entire satisfaction of the Director-General.
- 4.1.9 Samples - The Contractor shall furnish such samples as may be called for by the Director-General, who may reject all subsequent materials not corresponding with the approved samples.
- 4.1.10 Protection from storms, etc. - The Contractor shall protect the works adequately from all storms, surface, and underground water and from inclement weather to the satisfaction of the Director-General.
- 4.1.11 Plant, water, electricity, etc. - The Contractor shall provide all plant, tools, labour, materials, cartage, scaffolding, temporary shuttering, water, electricity, etc., necessary for the due and proper completion of the work. Only clean, fresh water, free from vegetable or organic matter, earth, clay, acid, or alkaline substances, either in suspension or solution, shall be used, and the Contractor shall make his own arrangements with the local authority or Government Departments as required for the supply of water for building purposes.
- 4.1.12 Sheds and latrines - The Contractor shall erect, maintain, and remove at the completion of the work, ample temporary sheds for the proper storage of perishable materials and latrines for the use of the workmen.
- 4.1.13 Lighting, watching and guard railing - The Contractor shall provide all necessary lighting, watching and guard railing to the satisfaction of the Director-General and Local Authority.

- 4.1.14 Notice board - The Contractor shall erect and maintain and remove at the completion of the work, a notice board, size 1 200 x 1 000 mm, with lettering neatly executed thereon as shown on the drawings.
- 4.1.15 Articles of value - Any articles of value found on the site shall be handed to the Director-General, who shall be the sole judge as to what constitutes articles of value.
- 4.1.16 Rubbish - All superfluous material, earth and rubbish that may accumulate during the progress of the works shall be carted away.
- 4.1.17 Workmen's insurance - The Contractor shall insure his workmen in terms of any Workmen's Compensation Act in Force and shall indemnify the Director-General from any claims thereunder.
- 4.1.18 Anti-malaria precautions - The Contractor's attention is drawn to the need for compliance with the Regulations promulgated under the Public Health Act, No. 36 of 1919, in certain areas.
- 4.1.19 SABS specifications - All references 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. When called for by the Director-General, proof shall be furnished by the Contractor of compliance of a product with the relevant SABS Specification.
- 4.1.20 Materials to be of South African manufacture - Materials manufactured or produced in the Republic of South Africa shall be used, wherever possible, in carrying out the work to which this specification refers.

4.2. CONCRETOR

- 4.2.1 Cement - Cement shall be Portland cement complying with the requirements of SABS Specification 471, or PC15 complying with the requirements of SABS Specification 831 and shall bear the Standardisation mark of the South African Bureau of Standards.
- 4.2.2 Sand (fine aggregate) and stone (coarse aggregate) - The fine and coarse aggregates shall comply with the requirements of SABS Specification 1083 (for use in concrete) to the satisfaction of the Director-General.
- 4.2.3 Concrete - Class Some concrete shall be composed of one part cement, three parts sand and five parts stone size 38 mm. Alternatively, a concrete mix maintaining a 28-day cube strength of 15 MPa will be excepted.

Class B concrete shall be composed of one part cement, two-and-a-half parts sand and three-and-a-half parts stone, size 19 mm. Alternatively, a concrete mix maintaining a 28-day cube strength of 25 MPa will be excepted.

Unless otherwise specified, class A concrete shall be used for mass concrete, such as footings, surface beds, etc., and class B concrete for reinforced concrete.

The proportions given above are by volume and approximately only. It may be varied at the discretion of the Engineer to obtain the required density and workability of the concrete.

The ingredients are to be thoroughly dry mixed until there is a uniform distribution of materials and the mass is of uniform colour and consistency. Only sufficient water shall be used that will allow of thorough mixing and that will enable the concrete to be placed and compacted.

4.2.4 Concreting - Lay concrete to the various depths, widths and lengths shown on the drawings.

The concrete shall be placed within half-an-hour of mixing and shall be thoroughly worked and puddled as it is being placed, to prevent holes being formed and to ensure that it entirely surrounds the reinforcement and is worked up against the sides of the forms. Concrete is to be kept continuously damp for at least three days after placing.

No brickwork shall be laid on concrete footings until at least two days after placing in the case of mass concrete and seven days in the case of reinforced concrete.

Allow for all necessary temporary formwork for any concrete requiring moulds or forms. Formwork soffits shall remain in position for at least 14 days after concreting.

Where lintels are shown to be of reinforced concrete, they shall be cast 450 mm longer than the width of openings and be separated from brickwork by covering the bearing surfaces and sides with malthoid sheeting.

Yard paving shall be laid with falls as shown or directed in panels not exceeding 6 m² in area, with 10 mm joints formed by installing soft board inserts.

Driveways and paths shall be laid in panels not exceeding 3 m in length, with 10 mm joints.

4.2.5 Pre-cast pre-stressed lintels - Where shown, pre-cast, pre-stressed concrete lintels, manufactured by an approved firm to the satisfaction of the Director-General, shall be of vibrated concrete reinforced with stressed high tensile steel wires.

4.2.6 Rainwater channels - Lay pre-cast concrete rainwater channels, approximately 750 mm long x 300 mm wide x 100 mm deep overall, under all rainwater down pipes.

4.2.7 Polyethylene film - Before concrete surface beds are laid, a 0,25 mm thick (250 microns) low density blown polyethylene continuous film, green in colour and complying with SABS 952, Type C, shall be laid over the filling and internal foundation walls, except to verandas, porches, and out-buildings.

4.2.8 Vehicular access to site - Where no pavement access exists for the entry of vehicular traffic to the site, or where the existing access is not in the required position, the Contractor shall apply to the Local Authority for and pay the cost of the construction of such access.

4.3 CARPENTER AND JOINER

4.3.1 Structural timber - Structural timber shall be of South African Pine complying with the requirements of SABS Specification 653 in respect of branding and battens and SABS Specification 563 (merchantable grade) or 1089 (stocklam) in respect of other members and bear the standardisation mark of the South African Bureau of Standards.

Timber must be ordered in the dimension in which it will be used and must not be sawn into smaller cross-sectional sizes on the site.

Timber shall be in single lengths, but where a member exceeds 6 m in length it may be in two or more lengths, jointed end to end by finger-jointing, complying with the requirements of SABS Code of Practice 096 and with the SABS mark over-stamped "FJ". The "FJ" mark shall be in red colour (indicating weather resistant adhesive in the joint) for timber to be used in positions exposed to moisture or to exterior conditions. The black "FJ" mark shall be permissible for interior use only.

Timber shall be dried to moisture content in equilibrium with its surrounding.

Laminated beams shall comply with the relevant SABS specifications, i.e., stock glued laminated timber, or structural glued laminated timber in accordance with SABS 876 and bears the standardisation mark.

Exposed structural timber, unless otherwise specified shall be wrought to a smooth surface and sandpaper to remove machine or other tool marks.

- 4.3.2 Joinery - All timber joinery shall, unless otherwise specified, be South African Pine complying with the requirements of SABS Specification 1098 (semi-clear) and bearing the standardisation mark. Imported softwoods may be used for the manufacture of doors and door frames for exterior use only, provided SA Pine to the above specification and laminated SA timber are not available, and provided that the imported timber complies with the relevant of the above specifications.

All joinery is to be manufactured under similar climatic conditions to those prevailing at the locality of the building site.

Skirting and the like shall be in long lengths with splayed heading joints and mitred or scribed at angles.

Solid timber shelving shall comply with the requirements of SABS specification 6544 and shall bear the Standardisation Mark of the SABS.

Exposed woodwork shall be wrought to a smooth surface and sandpaper to remove all machine and other tool marks, with minimum allowance off the nominal dimensions specified. All exposed angles of wrought work shall be slightly rounded.

The tolerance by which actual dimensions may vary from nominal dimensions specified shall be as laid down in the relevant SABS specifications.

Temporary covers against damage or discolouration shall protect all joinery.

- 4.3.3 Jointing of timber - Plates, purlins, battens, etc., shall be in single lengths, but where this is not possible the joints shall be formed as described below:

Plates shall be halved at joints, junctions and angles and well spiked together.

Purlins shall be splay jointed over the points of support and well spiked together.

Battens, slats, etc., shall be butt jointed at heading joints and mitred at angles, all over points of support.

- 4.3.4 Timber near flues and fireplaces - At least 100 mm of masonry shall be provided between timbers and smoke flues of fireplaces.

- 4.3.5 Fixing of woodwork - Woodwork shall be secured to walls with hardened steel nails driven into brickwork or with wire nails to wood plugs at 700 mm maximum centres, or by nailing to built-in breeze bricks.

Jamb linings and the like shall be fixed to 76 mm wide wood fixing slips, of thickness equal to the width of the brick joint and of length equal to the thickness of the wall, built into brick joints in such a manner as to permit nailing into cross grain.

Bands of 2 mm thick galvanised hoop iron, 38 mm wide (or double 3,2 mm diameter galvanised mild steel wire), wrapped around 150 mm x 10 mm diameter mild steel rods, built at least 5 courses deep into brickwork or 300 mm deep into concrete at centres not exceeding 1,5 m to coincide with roof trusses or rafters, shall be well lapped and spiked to adjacent trusses, rafters, or purlins.

- 4.3.6 Wood preservative - Attention is drawn to the need of having timber of certain magisterial districts preservatively treated, published in Government Gazette Notice R.451 of 28 March 1969.

Plates, ends of timbers built into walls, and backs of skirting and quadrant beads to skirting in services where all timbers are not required to be treated against infestation by insect pests, shall be given two good brush coats of Pentachlorophenol (SABS 42) before being fixed in position.

- 4.3.7 Roofs - Roof trusses shall be constructed of 114x38 mm timber as shown, all well spiked together and secured in addition with 10 mm diameter bolt, nut, and washer at intersections of tie beam, rafters, and king posts. Prefabricated timber roof trusses as "Gang-nail". "Hydro nail" or other equal approved trusses may be used in lieu of the above. The Contractor shall be liable to supply a certificate issued by a professional engineer taking the responsibility for the safe design of all prefabricated trusses.

Trusses and rafters shall be spaced as shown on drawings.

Where roofs are to be covered with galvanised iron or asbestos cement sheeting, purlins shall be size 76 x 50 mm on edge, spaced as shown or at 1,3 m maximum centres, securely cross spiked to rafters.

Where roofs are to be covered with clay or concrete tiles, battens shall be size 50 x 38 mm on edge spaced to suit the covering material, with tilting fillets as required, all securely spiked to rafters.

Trim for chimney stacks and elsewhere, as required and provide 114 x 38 mm wind bracing as shown.

Valley and hip rafters, where required, shall be size 228 x 38 mm and each valley shall be formed with two 228 x 25 mm sawn boards spiked to roof timbers and with purlins or battens fixed along outer edge.

Gutters at back of chimney stacks and the like shall be formed with 228 x 25 mm sawn boarding laid with falls and with purlins or tilting fillets, as required, fixed at top edges and gusset pieces at ends of boards. Secret gutters on the rake of clay and concrete tiled roofs, against chimney stacks, shall be 76 mm wide of 25 mm boarding, with batten nailed to edge of boarding.

Where electric hot water cylinders are required, bearers, supported on walls or tie beams, shall be provided to suit the cylinder.

Fascia and bargeboards shall be 225 x 10 mm thick pressed asbestos cement. Where roofs are to be covered with clay or concrete tiles, spike a 50 x 38 mm bearer, along inner top edge of barge board, to 114 x 38 mm sprockets and cover with a 75 x 15 mm asbestos cement cover strip as detailed or alternatively use a one piece 275 x 80 asbestos cement socketless barge board.

- 4.3.8 Roof covering - The roofs of all houses (and the roofs of outbuildings, other than lean-to roofs) shall be covered with either clay or concrete roofing tiles, at the discretion of the Contractor.

Clay roofing tiles shall comply with the requirements of SABS Specification 632 and shall be of an approved colour.

Vertical joints and bottom edges of each course shall range perfectly straight. Eaves and ridge courses, every third course, verge tiles, and tiles at each side of hips and valleys shall be secured to battens with 1,6 mm diameter copper wire.

Hip and ridge tiles shall be half-round, of same material and manufacture as roofing tiles, with a minimum cover of 76 mm over the top course of tiling on each side and shall be bedded and pointed in 3 to 1 tinted cement mortar, with strips of bituminous sheeting laid under mortar bedding. Provide all hip and ridge junction tiles, stopped ends, etc., bedded and pointed as before.

Concrete roofing tiles shall comply with the requirements of SABS Specification 542, with natural stone granular finish, and of approved colour. In addition, the heads of tiles shall be provided with head lap anti capillary stops and triple weather bars.

Vertical joints and bottom edge of each course shall range perfectly straight. Eaves and edge courses, every third course, verge tiles, and whole tiles of each side of hips and valleys shall be secure to battens with galvanised nails.

Hip and ridge tiles for interlocking tile roofs shall be socketed V-type to match general tiling and shall be bedded and pointed in 3 to 1 tinted cement mortar, with strip of bituminous sheeting laid under mortar bedding.

The roofs of outbuildings with lean-to roofs shall be covered either with galvanised iron or asbestos cement sheeting as specified hereunder:

- 4.3.8.1 Galvanised iron roofing sheets shall be 0,6 mm thick mild steel (before galvanising) corrugated or rib-trough sheets coated with not less than 275 g/m² of zinc on both sides.

Corrugated sheets shall have side laps of not less than one-and-a-half corrugations and end laps of not less than 225 mm and shall be secured to purlins with 63 mm galvanised iron roofing screws, provided with conical lead washers or approved patent washers, spaced at not exceeding two corrugations apart at end of sheets or end laps and at not more than four corrugations apart at intermediate purlins. Holes for fixing shall be drilled, not punched.

Rib-trough sheets shall be in single length to each roof slope. Sheets shall be lapped one rib at sides and secured to purlins with 88 mm galvanised iron roofing screws, provided with galvanised steel and plastic (or asphaltic felt) washers, spaced at not exceeding two ribs apart at intermediate purlins and to each rib at ends of sheets. Side laps shall be bolted together at not exceeding 1 m centres with 6 mm galvanised gutter bolts provided with washers as for fixing screws. Holes for fixing screws or bolts shall be drilled, not punched.

- 4.3.8.2 Asbestos cement roofing sheets shall comply with the requirements of SABS Specification 685 and bear the standardisation mark of the South African Bureau of Standards. The sheets shall be 6 mm thick, corrugated at 177 mm pitch or Canadian pattern at 343 mm pitch.

Sheets shall be mitre-cut at corners as necessary and laid with smooth surfaces on top, and holes for fixing shall be drilled, not punched.

The manufacturers' instructions regarding laying and fixing of sheets shall be followed in all cases.

Asbestos cement sole flashings shall be 6 mm thick and of the same manufacture as the roofing sheets, laid and fixed in accordance with the manufacturers' instructions.

- 4.3.9 Asbestos cement gutters and rainwater pipes shall be either of asbestos cement, as specified hereunder or galvanised sheet iron, as specified in clause 9.24.

Asbestos cement eaves gutters shall be size 125 x 100 mm of approved manufacture, 9,5 mm thick, with spigot and socket ends, bedded in bituminous mastic compound and secured with 6 mm diameter galvanised gutter bolts provided with asphaltic felt and steel washers. Joints shall be finished externally with neatly troweled fillets of 2 to 1 cement mortars.

The gutters shall be provided with all necessary angles, stopped outlet nozzles, etc., and shall be fixed with proper falls on galvanised steel or aluminium alloy gutter brackets, as supplied by the manufacturers of the gutters, at not exceeding 1 m centres.

Asbestos cement rainwater pipes shall be size 100 x 75 mm of approved manufacture, 7,9 mm thick, with spigot and socket ends, jointed with tarred rope gasket, caulked into each joint, and the joint filled in with mastic compound and finished off with neatly troweled fillets of 2 to 1 cement mortar.

The pipes shall be provided with all necessary swan necks, branch pieces, plinth bends, shoes, etc., and shall be fixed to walls with galvanised steel or aluminium alloy holderbats, as supplied by the manufacturers of the pipes, bolted round pipes immediately below the sockets and with tails built into walls in 3 to 1 cement mortar.

- 4.3.10 Ceilings - Internal ceilings to all rooms, shall be 6,4 mm thick gypsum ceiling board complying with the requirements of SABS Specification 266 (and bear the standardisation mark of the SABS) or 6 mm thick asbestos cellulose ceiling board complying with the requirements of SABS Specification 803, in 900 mm or 1200 mm widths and long lengths and fixed with narrow boards, where required, along walls.

Branderings shall be size 38 x 38 mm South African softwood complying with the requirements of SABS Specification 653 (and bear the standardisation mark of the SABS), securely spiked to roof timbers and to 114 x 38 mm ceiling joists, provided where required, with 88 mm wire nails. Branderings shall be provided as 450 mm maximum centres at right angles to the roof timbers and at joints and edges of ceiling boards.

The ceiling boards shall be nailed up to the banderings with 2 mm diameter galvanised or cadmium plated clout-headed nails, 38 mm long, spaced at not more than 100 mm centres at edges of boards and 150 mm centres along the intermediate banderings. Nailheads must not be driven through the covering of the boards.

Joints between boards shall be covered with 25 mm half-round wood cover beads fixed with 38 mm nails as above at not exceeding 300 mm centres, or with Anaglyptic tape cover strips, or with approved patented pre-primed metal cover strips.

Ceilings, unless otherwise specified, shall be provided with 82 mm girth gypsum cove cornices, complying with the requirements of SABS Specification 622, nailed to ceiling banderings at not exceeding 300 mm centres, with 38 mm nails as above or fixed to walls with hardened steel nails driven into the brickwork.

External ceilings shall be asbestos cellulose ceiling board as above, fixed to banderings, and with joints between boards covered with half-round beads, all as described above. Provide 19 mm quadrant cornice.

- 4.3.11 Trap doors in ceilings - Trap doors in ceilings shall be size 600 x 600 mm formed with 38 x 38 mm banderings framework all round, covered on underside with ceiling board. Trap doors shall rest on 38 x 19 mm fillets fixed to soffits of ceiling to 114 x 38 mm trimmers all round openings.

- 4.3.12 Spandrill ends - Spandrill ends, etc. where shown to be covered with wood, shall be filled in with wrought SA pine tongued, grooved and V-jointed boarding, closely cramped up and secured with brass screws to framing.

Spandrill ends, etc., where shown to be covered with asbestos cement sheeting, shall be filled in with 6 mm thick, vertically striated asbestos cement sheeting, securely brass screwed to framing.

- 4.3.13 Wood mosaic floors - Mosaic panels for floors shall be of saligna or other suitable gum, or Acacia and shall comply with the requirements of SABS Specification 978 (all brown type).

The mosaic panels shall bear the standardisation mark of the South African Bureau of Standards and shall have the moisture content and be treated with preservative as specified therein.

Unless otherwise specified the panels shall be 480 x 480 mm, made up of 120 x 120 mm units in basket pattern, each unit consisting of five fillets, laid edge-to-edge, and having a nominal thickness of 8 mm.

The panels shall be laid in accordance with SABS code of Practice 043 on perfectly dry screeding, specified under PLASTERER, and after completion of internal plasterwork.

The floors shall be protected from injury during the progress of the remaining work, and on completion shall be sanded as laid down in the Code of Practice referred to above and polished with an approved clear wax polish.

Where panels are carried into door openings, they are to finish flush with and stop against adjacent floors of different material under centres of doors, with 3 mm wide by 19 mm minimum deep galvanised mild steel strips bedded in screed to finish flush with and between the two floor finishes.

Lay the floors of living room, dining room and entrance hall with wood mosaic flooring.

- 4.3.14 Skirting and angle moulds - To all internal walls, except to outbuildings or where wall tiling or granolithic skirting is specified, fix 76 x 25 mm skirting, and at junctions of skirting with floors 19 mm quadrant angle moulds. Skirting shall be stopped against hearths, but angle moulds shall be carried round.

- 4.3.15 Doorstops - Fix a 38 mm diameter rubber doorstop to floor at each door, except to outbuildings.

- 4.3.16 External door frames (subject to last paragraph of clause 6.17) - All external door frames shall be 114 x 76 mm rebated, angle rounded frames with 9 mm diameter mild steel dowels, 75 mm long, let into bottom of frame and concrete surface bed. All horns of doorframes shall be checked and splayed where necessary.

Sidelights, where shown, shall be similarly formed with 114 x 76 mm twice rebated timber, all framed together. Rebates shall be fitted with glazing beads mitred at angles and fixed with countersunk brass screws.

Fit 19 mm quadrant angle moulds all round on both sides of frames and/or sidelights.

- 4.3.17 Framed, braced and ledged batten door - Doors to outbuildings shall be framed, braced, and ledged batten doors, size 2030 x 813 x 40 mm, of SA pine complying with SABS Specification 1098 with 114 x 40 mm stiles and top rail, 228 x 20 mm bottom rail, 114 x 10 mm middle rail and braces and 114 x 20 mm vertical tongued, grooved and V-jointed boarding, rebated and V-jointed on edges and top ends and fitted into grooves in stiles and top rail and each board twice countersunk - screwed to bottom and middle rails.

Manufacturing conditions and treatment shall be as specified in clause 6.20.

Hang each door on pair of 100 mm brass butt hinges.

Fit each door with 75 mm upright two-lever mortise lock and chromium plated furniture complying with the requirements of SABS Specification 4.

The Contractor may, subject to the approval of the Director-General, use combination pressed steel doors and frames, in lieu of timber, to outbuildings, only in dry areas.

- 4.3.18 Framed, braced, ledged batten door with flush panel - Rear entrance doors to houses shall be framed, braced and ledged batten doors with flush panels on the inside, as specified in clause 6.17, but with

15 mm thick bottom and middle rails and braces and with the inner edges of stiles and top rail rebated on the inside and door filled in with 5 mm thick plywood panel, faced with sapele mahogany veneer and glued and primed into rebates and on face of ledges.

Alternatively, the doors shall be as specified in clause 6.19.

Fit each door with 75 mm upright three-lever mortise lock and chromium plated furniture complying with the requirements of SABS Specification 4.

- 4.3.19 Flush doors (solid core) for exterior use - Main entrance doors to houses shall be solid core flush doors complying with the requirements of SABS Specification 545 for doors intended for EXTERIOR use. The doors shall be size 2030 x 813 x 40 mm and shall be covered on both sides with hardboard and sapele mahogany veneer and fitted with two sapele mahogany edge strips not less than 9 mm thick.

Manufacturing conditions and treatment shall be as specified in clause 6.20.

Hang each door on a pair of 100 mm brass butt hinges.

Fit each door with 75 mm upright three-lever mortise lock and chromium-plated furniture complying with the requirements of SABS Specification 4.

- 4.3.20 Flush doors (hollow core) - All internal doors shall be hollow core flush doors complying with the requirements of SABS Specification 545. The doors shall be manufactured of SA pine framing, covered on both sides with hardboard and sapele mahogany veneer and the hollow filled in with a grid to ensure a flat and even surface to the hardboard covering. Doors in two leaves shall be fitted with rebated edge strips, not less than 19 mm thick, to meeting edges, and other doors shall be fitted on one vertical side with an edge strip not less than 10 mm thick.

In areas where all timber is required to be treated against infestation by insect pests, the timber in doors shall be treated as laid down in the specification referred to above.

Doors shall be manufactured under climatic conditions similar to those prevailing at the locality of the building site.

Doors to cupboards shall be 40 mm thick of the sizes to suit the various frames. Doors to bathrooms, W.C. and shower cubicles shall be size 2030 x 762 x 40 mm and all other doors shall be size 2030 x 813 x 40 mm.

Hang each door, except sliding doors, to pressed steel frame on the butts supplied with the frame.

Hang each sliding door on approved sliding door gear, complete with track, adjustable hangers, floor guide, door stop, and pressed metal pelmet, and fit door with two approved chromium plated door handles.

Fit all other doors, except cupboard doors, with 76 mm upright two-lever mortise locks and chromium-plated furniture complying with the requirements of SABS Specification 4.

Fit single doors to cupboards with approved chromium plated locking cupboards catch.

Fit one leaf of double doors to cupboards with 100 mm brass necked socket bolts at top and bottom and with a chromium plated dummy handle to match locked cupboard catch. Fit the other leaf with approved chromium plated locking cupboard catch.

- 4.3.21 Weather boards - Fit all external doors with 76 x 38 mm chamfered and throated weather boards, securely screwed to bottoms of doors and with thick white lead between.

- 4.3.22 Gauze doors - To front and rear entrance doors of house only, fit gauze doors constructed on 114 x 38 mm stiles, top and middle rails, and 152 x 38 mm bottom rail, with the panels covered with approved fibre glass or anodised aluminium wire gauze having 1,5 x 1,5 mm meshes, tightly stretched, and tacked. The panels shall, in addition, be covered with 12 mm mesh bird wire, tightly stretched, and tacked. Fit 25 mm half-round cover beads over the gauze and chicken wire where tacked, hang each door on a pair of single action 100 mm Bommer steel spring hinges and fit with a pair of approved chromium plated bow handles.
- 4.3.23 Gauze screen(s) to stoep/sleeping porch - Where shown on drawings, screens to stoep and/or sleeping porch shall be framed with 76 x 50 mm stiles, top, bottom, and intermediate rails, rebated, where required for doors, all properly framed together and screwed to plugs in walls, floor, and lintel. Cover the panel with gauze and bird wire as specified in clause 6.22. At junction of framing with walls, floors, and lintels, fit 19 mm quadrant angle moulds all round on both sides.
- Where doors are shown to screens, they shall be as specified in clause 6.22 and shall be in lieu of gauze screens to entrance doors within the gauzed area.
- 4.3.24 Metal curtain pelmets - Over all windows, except to outbuilding, fit pelmets of stock pattern and of approved manufacture, and not less than 200 mm longer than the width of the opening, wherever possible.
- The fascia shall be of sheet steel, not less than 0,6 mm thick, with top and bottom edges beaded and ribbed for stiffness if necessary. Fascias shall be of sufficient width to provide at least 65 mm cover from bottom of curtain rail to bottom edge of pelmet and shall be returned on to face of walls at ends.
- Pelmets shall be fitted with two approved I-section curtain rails, attached to the fixing brackets, and provided with end stops and approved curtain runners, six to each 300 mm length of rail.
- The pelmets shall project not less than 100 mm from wall face and be supported at not exceeding 650 mm centres on strap brackets of 20 x 5 mm or 25 x 3 mm mild steel screwed to plugs in walls.
- The fascias and brackets shall be given one coat priming paint before leaving the manufacturer's works.
- 4.3.25 Towel rails - Provide and fix 20 mm diameter chromium plated brass towels rails, supported on chromium plated brass brackets screwed to wall plugs, of the following lengths:
- 900 mm to bathrooms
- 600 mm to separate shower cubicles
- 450 mm to sink
- 4.3.26 Bathroom cabinet - Provide and fix on face of wall in bathroom to house, where shown on drawings or where directed, an approved cabinet formed in pressed steel, finished internally and externally in white enamel, of minimum internal size 450 x 350 x 100 mm.
- The cabinet shall be fitted with one shelf and a mirror of 6 mm thick silvered plate glass fixed on face of door.
- 4.3.27 Mirrors - Over lavatory basins, other than basins in bathrooms, fit a 450 x 350 x 6 mm thick bevel edged silvered plate glass mirror, drilled and countersunk screwed to plugs in wall and fitted with domed chromium-plated cubs.

- 4.3.28 Curtain and hanging rails - Provide and fix across opening to shower cubicle, to bath where shower rose is provided over bath, to opening of cupboard recess in cloak room and as hanging rail inside the cupboard a 20 mm diameter chromium plated hanging rod fitted with chromium flanges screwed to wall plugs, and with three curtain rings to each 300 mm length.

Windows to cloak Rooms shall be provided with similar curtain rails and rings, supported by 100 x 100 x 20 mm chamfered and slotted brackets plugged and screwed to the reveals.

- 4.3.29 Toilet roll holders - Provide an approved chromium plated toilet roll holder to each W.C. and screw to plugs in wall.

- 4.3.30 Cupboards in offices and kitchen - The pressed steel doorframes shall be as specified in SMITH and the doors shall be as specified in clause 6.20.

Cupboards shall be divided into sections as shown with continuous top shelf, vertical divisions, and intermediate shelves of approved 530 x 22 mm blockboard, faced on both sides with tola or other approved veneer. Shelves shall be supported on 50 x 25 mm wrought bearers fixed to plugs in walls or to vertical divisions.

Provide and fit under top shelf, where shown, a 20 mm diameter chromium-plated hanging rod, fixed at ends with 76 x 76 x 25 mm hardwood blocks, holed for rod and countersunk screwed to wall and to vertical divisions.

- 4.3.31 Kitchen fittings - Provide in kitchen, in the position and of the sizes shown on the drawings, fittings in steel or wood, of approved manufacture, and fix to wall plugs in accordance with the manufacturers' instructions.

Steel fittings shall be manufactured of cold rolled steel with white baked enamel finish to all faces. Doors shall be double walled and soundproofed with fibrous material.

In areas where all timber is required to be treated against infestation by insect pests, the timber in wood fittings shall be treated as laid down in clause 6.6. Cupboards shall have white high gloss finish, to approval.

Tops of floor cupboards, except sink unit, shall be covered with approved decorative laminated plastic board finished all round to edges with chromium plated protective edging, secured with cup headed chromium plated screws.

Drawers shall slide on steel roller bearings or plastic tracks for smooth, silent running.

Wall cupboards shall be fitted with 6 mm thick obscure glass doors, with polished edges and finger grips, sliding on metal rollers or other approved tracks. All other cupboards shall be fitted with hinged doors.

No locks are required to cupboards, except to grocery cupboard, which shall be fitted with chromium-plated locking cupboard catches.

Wall cabinets shall be fitted with one shelf each.

Floor cabinets shall be fitted with one shelf and two drawers each. Grocery cupboards shall be fitted with five tiers of 450 mm deep shelves.

Sink units shall be fitted with one shelf and a stainless-steel sink and fluted drainer unit, with tiling key to one or more sides, as required, complying with the requirements of SABS Specification 242, and bearing the standardisation mark of the SA Bureau of Standards. The stainless steel shall be of Grade 17/0 and of such gauge as laid down for the particular size of fitting. Outlets of bowls shall be fitted with chromium plated brass waste fittings with vulcanite plug and chromium plated chain. Each 1 350 mm long sink unit shall have a single bowl, either left hand or right hand as shown, size 450 x 350 x 150 mm deep. Each 1 200 mm long sink unit shall have two bowls, each size 450 x 350 x 150 mm deep.

4.4 PAINTER

- 4.4.1 Paints, generally - All materials for paintwork, for which South African Bureau of Standards specifications have been published shall comply with the requirements of such specifications and bear the standardisation mark of the Bureau. Materials for painting work for which no SABS Specifications have been published shall be of a brand approved by the Secretary.

All materials for paintwork must be brought on to the site in unopened containers and no adulteration will be allowed.

Primers and undercoats shall be of the same brand as the paint being used for the finishing coat.

Paints, etc., shall be suitable for application on the surface on which they are to be applied, and those used externally shall be of exterior quality or suitable for exterior use.

If necessary, paints shall be strained to remove skins and other impurities.

Where emulsion paint is specified, the Contractor may, at his discretion, use either the product with the poly-acrylic resin base or the polyvinyl acetate (PVA) base.

- 4.4.2 Limewash - Fast limewash shall be prepared as follows: To 50 kg fresh, unslaked white lime, add 7 kg salt and 5 kg tallow or boiled linseed oil. Add clean water to the lime, and while boiling, add tallow (or oil). When slaking is complete, pass through a fine sieve.
- 4.4.3 Preparatory work - All floors must be swept clean, and walls dusted down, and surfaces not being painted, such as face brickwork, sills, floors, etc. covered up and protected against spotting.

Woodwork being painted shall be brushed down, knots treated with knotting, and all surfaces primed, stopped with hard stopping and rubbed down to an even surface.

Back of frames and other joinery in contact with brickwork, etc., shall be primed before building in, whether the article is to be painted or not.

Priming to external structural timbers shall be applied before fixing and shall include all wrought surfaces of such timbers.

Woodwork being oiled or stained shall be thoroughly cleaned of all rust, scale, dirt, salt deposits and grease by scraping, brushing, or degreasing with alkali detergent solution, as required. After cleaning off rust on metalwork, those portions so affected shall be treated with an approved rust inhibitor.

All plastered surfaces being painted shall be filled, where necessary, with suitable stopping and the whole rubbed down.

All ceilings, cover strips and cornices being painted shall be filled, where necessary, with suitable stopping, and all nail heads be primed with flat paint (SABS 515).

Surfaces shall be perfectly dry before painting is commenced.

- 4.4.4 Application of paints, etc. - All coats of paints, etc. shall be thoroughly dry before subsequent coats are applied and rubbed down where necessary.

All work shall be finished to colour approved by the Director-General. The tints of undercoat shall approximate those of the finishing colour, but with a slight difference in the tint of each coat.

All prime coats shall be applied by brush, the priming being well brushed in to obtain maximum penetration.

The use of a spray gun on site will not be permitted, except in the case of cellulose or other special paints where spraying is the accepted method of application.

All materials shall be used in strict accordance with the manufacturer's instructions.

- 4.4.5 Painting to woodwork - To all exposed woodwork internally and externally, except to hardwood, shelves, ceiling cover strips and internal roof timbers to outbuildings, knot, prime with wood primer (SABS 678 - Type I externally and SABS 678 - Type III internally), stop, paint one undercoat (SABS 681 - Type IIO, and one coat high gloss enamel paint (SABS 630 - Type I or II).

- 4.4.6 Oiling and waxing to hardwood - Prepare, stop with tinted stopping and once oil with raw linseed oil and once wax polish all exposed hardwood surfaces internally, and twice oil all exposed hardwood surfaces externally, all well rubbed in.

- 4.4.7 Painting on metalwork - To all exposed galvanised metal surfaces, except to roof covering, and to all non-ferrous metal surfaces, prime with metal etch primer (SABS 723).

Steel windows, pressed steel door frames and other metalwork which had been pre-primed, shall be touched up with zinc chromate primer (SABS 679 - Type I), where required.

To all other exposed metalwork, except cast iron pipes, prime with zinc chromate primer (SABS 679 - Type I).

In addition to the priming coats specified above, paint one undercoat (SABS 681 - Type II) and one coat high gloss enamel paint (SABS 630 - Types I or II).

Eaves, gutters, and rainwater pipes shall be painted on the outside only.

- 4.4.8 Painting to asbestos cement external surfaces - To all exposed external asbestos cement surfaces, except to roof coverings, either:

- 4.4.8.1 Paint two coats exterior emulsion paint (SABS 634 - Grade I), with 20% water added for the first coat, or

- 4.4.8.2 treat surfaces with an approved bonding liquid and paint two coats exterior emulsion paint (SABS 634 - Grade II).

Eaves, gutters, and rainwater pipes shall be painted on the outside only.

- 4.4.9 Painting to ceilings - To all interior gypsum plaster board or asbestos cement ceilings, including coverstrips and cornices, prepare, stop and paint two coats interior emulsion paint (SABS 633 - Grades I or II), with up to 20% water added for the first coat.

- 4.4.10 Painting to internal walls - Twice limewash to all internal bagged surfaces to outbuildings.

To plastered surfaces in kitchen, laundry, bathroom, and shower cubicle to house, and in bathroom/w.c. to outbuildings, prepare, prime with an approved alkali resisting primer, paint one undercoat (SABS 681 - Type II) and one coat high gloss enamel paint (SABS 630 - Types I or II).

To all other internal plastered or fair faced common brick surfaces, prepare, apply one coat of either an approved pigmented filler/sealer or clear filler/sealer mixed with the finishing paint in the proportions recommended by the manufacturer, and paint either:

- 4.4.10.1 One coat interior emulsion paint (SABS 633 - Grade I); or

- 4.4.10.2 Two coats interior emulsion paint (SABS 633 - Grade II).
- 4.4.11 Painting of external walls - To all external plastered, bagged or fair faced common brick surfaces, prepare and either:
 - 4.4.11.1 Apply two coats exterior emulsion paints (SABS 634 - Grade I), with 20% water added for the first coat; or
 - 4.4.11.2 Apply one coat approved bonding liquid and two coats exterior emulsion paint (SABS 634 - Grade II).
- 4.12 Leave perfect - The Contractor shall exercise all necessary care to keep the works perfectly clean and free from spotting, and to leave the premises clean and fit for occupation at the completion of the work.

4. Conditions of Contract

The conditions governing this Tender are as set out in the General Conditions of Contract for Construction Works, Third Edition (2015).

Contracts will only be awarded to Tenderers who, in the Engineer's opinion, are capable of manufacturing and supplying to the required standard. Workmanship shall conform to accepted industrial standards. The size of tools and equipment used shall be proportional to the task being conducted.

Tenders shall only be awarded on a fixed price basis and no escalation shall be considered.

The Contractor shall make no changes or modifications to any part of the design, or the equipment offered under this Contract without the written approval of the Engineer. The Department shall not accept any additional costs for any part of this Contract should any procedures contained therein are not complied with.

The Contractor shall be responsible to issue all of his Sub-contractors with the relevant sections of this tender document, any additional cost resulting from Sub-contractors not being fully informed, shall be for the contractors' account.

Guarantee

The defects liability period as stipulated in the General Conditions of Contract for Construction Works, Third Edition (2015), shall read 12 (twelve) months from the date of issue of the Commissioning Certificate by the Engineer to the Contractor and shall terminate with the issue of the Final Certificate by the Engineer. The Contractor's Guarantee shall include all aspects of the manufacturing process, including work done by any Sub-contractors.

4.01 PRECEDENCE OF THESE CLAUSES

The clauses contained in this section are intended to amplify the rest of the conditions contained in this tender document, and in certain instances to modify the contents. Should any discrepancy appear between these clauses and the rest of the conditions these clauses should take precedence.

4.02 EXTENT OF THE CONTRACT

This contract **comprises** mainly the supply of all material and labour for the erection and completion of an office with ablution facilities for Mhlatuze River Government Water Scheme at Goedertrouw Dam near Eshowe, KwaZulu Natal Province.

4.03 RESPONSIBILITIES

The extent of the contract as given above is intended to indicate the **general extent of the works** involved. It is not exhaustive in so far as any detailed item or associated work is concerned and shall **in no way relieve** the contractor of his responsibilities to comply with the specific requirements.

4.04 SEQUENCE OF WORK

The successful contractor will be required to complete the contract within the present financial year ending 31 March 2023. Completion date will depend on the date of appointment and contract period. The sequence of work shall be determined by the contractor and compiled in a works programme.

4.05 NATURE OF GROUND AND SUBSOIL CONDITIONS

The soil on the building sites is stable and ground pressure average. After excavation of foundation trenches, the Engineer will inspect the excavation and then decide on the structural design of the foundation. For purpose of this tender, the Contractor will price on conventional concrete strip foundations. Any reinforcing or change in foundation design will be paid by the provisional amount allocated for this purpose.

The building sites have a natural slope of $\pm 1:15$. The Contractor will provide for preparatory groundworks if decided and instructed by the Engineer to form terraces on which the buildings will be situated, with maximum 1:40 slopes.

4.06 TEMPORARY BUILDINGS AND SERVICES

The contractor must make his **own arrangements** in connection with the following, the costs for which must be included in the "Preliminary and General" section, maintain it in a tidy and proper manner and adopt such precautions to prevent any pollution whatsoever.

- (a) Temporary accommodation and toilet facilities for all workers.
- (b) Temporary site offices and/or workshops.

The Department will supply a connection point within reasonable distance from the construction site for the following services:

- (a) **Drinking and construction water**

The contract includes work at site where water is available of which the contractor may use, for construction purposes, free of charge. The Department reserves the right to limit the consumption before any connection or extension of the supply is made, which must be conducted at the contractor's expense and must be made good on completion of the contract. Under no circumstances may water be obtained from fire hydrants or fire hoses.

(b) **Electricity for the works**

The contractor shall provide all electricity for the execution of the works at his own expense. If the contract includes work at a site where electricity is available from a convenient Departmental source, the contractor can, with the prior approval of the representative, use electricity from such source at his own risk. The representative, however, reserves the right to either provide the electricity supply free of charge to the contractor, or he can limit the capacity of such free supply, or he can require from the contractor to arrange at his own cost for a metered connection to recover the cost of the consumption from the contractor.

4.07 CO-OPERATION BETWEEN CONTRACTORS/SUBCONTRACTORS

It is essential that contractors/subcontractors work **in co-operation** with each other. Possible differences arising should be settled by the contractors themselves and the employer will not be liable for any damage or loss arising from such differences.

4.08 PROCEDURE OF WORK

The Construction personnel, during the course of this contract will occupy the site. The works on this contract shall be carried out according to program in such a manner as to cause **the least inconvenience** to other Departmental personnel. The contractor shall co-ordinate with the employer's local representative which part of the work to be expedited requires priority.

4.09 SITE CLEARING AND LEVELLING

Clearing and levelling of the site after completion will be under strict supervision of the employer in terms of preserving the existing ecology. The site shall be levelled with the ground sloping away from the building, but the building shall have **a finished floor level of not less than 200 mm** above the level of the ground adjacent to the building at its highest point, unless shown otherwise on the drawings.

4.10 ADMISSION TO SITE

Permission for admission to and establishment on site.

Before the successful tenderer (contractor) established himself on the site, the **local Resident Engineer's** prior approval must be obtained.

4.11 INSURANCE

The contractor shall enter a policy of insurance **to cover his liability** under the laws in force relating to the workman's compensation and liability to the public and shall produce proof of such insurance having been affected by him.

The contractor shall indemnify the Department of Water and Sanitation from all claims due to accidents to workmen and the public during the execution of this contract.

4.12 CHECKING OF TENDER DOCUMENTS

On receipt of the tender documents, the tenderer must, prior to submitting his tender, **check all the tender documents** and should **any difference or discrepancy** between or in the drawings and specifications be detected by the tenderer, he shall seek in writing a decision, from the Director: Operations Eastern, Department of Water and Sanitation, Private Bag X24, Howick, 3290, on the true intent and meaning of the tender documents as the Department of Water and Sanitation **cannot be held liable** for the additional cost of extra work that may be caused as a result thereof.

4.13 SCOPE OF TENDER PRICE

The tender price and all prices and/or which are inserted into the price schedules in the specification and transferred to the tender form, must be for the execution and completion of the works as well as for the provision of all labour, materials, workmanship, machinery, plant, and everything that is or may become necessary.

4.14 VALUE ADDED TAX

The tender price shall **include value added tax** payable in terms of the Sales Tax Act No. 103 of 1978, as amended.

4.15 PURCHASING OF MATERIALS

- ◆ The contractor is required to purchase the materials necessary for the contract at the **earliest possible date** thus limiting the effect of inflation and to prevent delays.
- ◆ Payment for materials will only be affected if the contractor **can prove ownership** of the items and if the material **has been delivered to site**.
- ◆ The contractor will be **responsible for the security** and maintenance of all materials in storage on site or at any other place of the contractor's choice.
- ◆ The contractor will be required at his own expense to **make all arrangements for off-loading** and carefully stacking all materials delivered under this contract at the site of the works. The off-loading and stacking shall be carried out strictly in accordance with the requirements of the engineer to permit a thorough and careful examination and testing of all items for breakages, failures, etc. and any routine maintenance during storage.
- ◆ The contractor shall be fully responsible for the protection of all materials delivered by him to site but still in storage, against damage by water, weather, fire, and any other interference until such time as it is erected and installed, put into satisfactory operation, and accepted by the employer as complete.

4.16 PAYMENTS

4.16.1 Progress payment

- (a) **Monthly part payments** will be made in accordance with the percentage tabulated below for the work completed on the building.
- (b) The supervising Engineer (Civil Design) in collaboration with the Contractor will do the payment certificate. Payment will be made by the administration and financial section of Midmar Dam Departmental personnel.
- (c) The **electrical installation** for the building will be regarded as **a unit for payment** purposes.
- (d) Whilst the gullies and water supply pipes will be regarded as part of the building, **payment for the sewer lines** will be made **per metre length** of pipes laid. Payment will only be made after completion of the sewer lines on the site.
- (e) Each interim payment certificate shall be subjected to retention by the Employer of 10% of the total work done to date. The retention will be reduced to 5% at the completion of the works (completion certificate), which will then be paid at the issuing of the Final Certificate at the end of the maintenance period. No limit will be applicable on the amount of the retention money.

	Subsection of contract	Percentage of total
cost		

Site Clearance / Establishment	2,5
Remove old kitchen built-in cupboards	2,5
Replace sliding door and gate lounge	2,5
Tile passage and bedroom floor	5
Tile bathroom and shower x 2	5
Paint interior walls and ceilings	2,5
Replace lounge sliding door lock	1
Replace kitchen stable door	5
Install BIC all three bedrooms	20
Maintain en-suite shower, washbasin and window	2,5
Replace all windows and interior doors with townhouse 4 panel doors	2,5
Install and maintain burglar bars on windows and external doors	3
Install venetian blinds on all windows	7
Asbestos removal area: 7.7m x 16.8m = 129.36m ² Tile to be installed same area	15

Painting walls exterior	5
Rear veranda needs new beams and IBR sheeting 4.4m x 4.4m = 19.36 m ²	15
Tidy site and handover	4

Total **100,0**

4.16.2 Payment of **preliminary and general items** will be made in accordance with clauses 8.2.1 and

8.2.2 of SABS specification 1200A.

4.16.3 The contractor shall provide all **reasonable assistance** in the preparation of cash flow statements for

certificate payments required by the employer.

Such statements shall be based on the programme for the execution of the works and shall be updated at such intervals, as the programme of work progress is required to be updated. The co-operation of the contractor under these items shall in no way prejudice his right to receive payment in terms of the contract.

4.16.4 The contractor can claim payment of 80% of the value of material for the contract, purchased by him and

delivered to site, but not yet built in on his interim payment certificate. The contractor must provide the

Engineer with documentation proving his ownership of such material.

4.16.5 The Tenderer shall complete the Daywork Schedule on which basis he will be paid for the execution of extra work as described in the preamble of the schedule. If an item was not included in this schedule, the contractor will be paid for that item according to **clause 40** in the "General Conditions of Contract for Works of Civil Engineering Construction", sixth edition (1990), with specific reference to **sub-clause (4) (a)**.

4.17 GENERAL

4.17.1 Throughout this document the following shall apply:

- (a) **Employer** shall mean the Minister of Water and Sanitation, acting on behalf of the Government of the Republic of South Africa or his duly authorized representative.
- (b) **Engineer** shall mean the Director-General of the Department of Water and Sanitation or his duly authorized representative. Refer to "Instructions to Tenderers" Clause 2.

- (c) Address of **Employer** at Head Office:

Director General

Department of Water and Sanitation

Private Bag X313

PRETORIA

0001

Tel.: (012) 336-8680

- (c) Address of **local resident engineer** on site:

Resident Engineer

Department of Water and Sanitation

Private Bag X 24

Howick

3290

Tel.: (033) 2391266

4.17.2 The contractor will be an active participant in the **preservation of the environment** and will be required to maintain and contribute towards the safekeeping of the environment. The contract shall regularly or at the engineer's instructions, **clean and clear away** all rubbish and excess materials as the works proceed. The contractor shall be responsible **for the protection** and safety of the premises **against fire** and shall take such precautions as may be directed by the representative of the Department.

4.17.3 **No wood or plant life** will be harvested from the building site or surrounding area.

4.17.4 The contractor shall **not extend** his operations **beyond the defined area** of the works. The area used by

the contractor will be made good to the engineer's satisfaction, at completion of the works.

4.17.5 Any **relics, treasure** or other articles of value **found** on the site shall remain the property of the employer and shall be handed to the engineer who shall be the sole arbiter of what constitutes an article of value.

4.17.6 **Meetings** related to the progress and other detail of the contract of the works will be held at regular intervals and at such other times as may be necessary, attended by the following:

- (a) The engineer
- (b) The contractor's representative/s
- (c) The employer's representative

Subcontractors shall not be present at progress meetings unless specifically requested by the contractor or Engineer. The engineer shall record the minutes of the meeting and distribute them to all affected parties.

4.17.7 The contractor shall **acquaint himself** during the pre-tender site meeting with the conditions under which the works are to be done and personally examine the means of access to works, the condition of the roads and generally of all matters which may influence the execution of this contract.

4.17.8 The contractor shall **provide first aid** facilities complying with the requirements of the Machinery Occupational Safety Act (No. 6 of 1983) and the Occupational Safety Act (Act No. 85 of 1993) and shall adhere to all rules and regulations of the mentioned act. Any death or injury that may occur directly or indirectly due to the actions of this contract shall be solely the responsibility of the contractor and the Department of Water and Sanitation will not be liable for the consequences.

4.18 COMMENCEMENT AND WORKS PROGRAMME

Commencement date of the works and hence the contract period shall be taken as the date of official site handover to the Contractor. The Contractor can commence work directly after receiving his letter of acceptance but at his own risk and only on approval of the Engineer.

Within 14 days of award of contract, the contractor **shall submit** a detailed comprehensive and realistic **works programme** reflecting all activities required up to final completion. The format of the programme shall be to the engineer's approval. The programme so submitted and approved shall be held to the binding throughout the contract period. The tender price shall be computed on the assumption that **all the material necessary** for the execution of this contract will **be readily available** when required in accordance with the programme for the works. The contractor shall use every reasonable endeavor to obtain supplies of all materials timeously.

4.19 LEAVE PERFECT

On the **completion** of the works the contractor shall **clear away and remove** from the site all construction plant, surplus materials, rubbish, and temporary works of any kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the engineer. The contractor shall also satisfy the engineer that he has complied with the conditions of any wayleaves, which the contractor has negotiated.

4.20 CONTRACT PRICE - ADJUSTMENT PROVISIONS

The general rule stipulates that:

- (a) If the contract term (the period or term of completion) is 6 months or shorter, the contract price irrespective of the amount involved shall be fixed and NO price adjustments shall be considered.
- (b) In respect of all contractors amounting to R500 000,00 and less for buildings or building related contracts, the contract price shall be fixed irrespective of the contract term.
- (c) The stipulations concerning contract price adjustments shall be applicable only to building contracts to the value of more than R500 000,00 and of which the contract terms are longer than 6 months.
- (c)

Notwithstanding (a), (b) and (c) above:

No price adjustments shall be applicable on this contract _____ and all tender rates or tariffs will be firm for the duration of the contract. The contractor shall compensate for any possible fluctuation of material or labour in his tender price.

4.21 NOTICE OF INSPECTIONS

Apart from normal site inspections and site meetings, the Contractor shall request the Engineer at the following stages of the contract to inspect and approve specific sections of the work:

- (a) At completion of foundation excavations.**
- (b) After placing and fixing of reinforcing steel and before concrete casting.**
- (c) After filling and compaction underneath floors and before casting of surface bedding.**
- (d) After trench excavation and installation of pipes or cables but before commencing backfilling.**

After chasing and installation of pipes or electrical services but before closing in and making good of brickwork. Testing to be conducted during inspection.

5. Occupational Health and Safety

The Occupational Health and Safety Act (Act number 85 of 1993) and related Regulations is applicable. Construction Regulations, Diving Regulations and Confined Areas Regulations have particular reference. The contractor shall notify the Department of Labour, prior to commencing with the project. The DWS shall ensure that the provisions of the OHS are complied with for the duration of the project. The contractor prior to commencing on with the project shall submit:

- A comprehensive OHS file in accordance with the OHS Act.
- A detailed site-specific risk assessment for review and acceptance;
- A detailed method statement for approval by the Project Manager.
- A detailed plan in terms of providing ventilation into the tunnel, gallery, and pipeline.

All work shall be done in accordance with relevant legislation(s) and regulation(s). The DWS reserves the right to stop the contractor from executing work, which is not in accordance with the contractor's OHS plan for the site or which poses a threat to the health and safety of persons. The contractor may not appoint a subcontractor unless the contractor is reasonable satisfied that the subcontractor has necessary competencies and resources to perform work safely. Any subcontractor appointment shall be approved by the Project Engineer. Where a contractor appoints a subcontractor, all OHS Act requirements shall be applicable to the subcontractor. The contractor shall appoint a full-time competent employee in writing as the project supervisor, with the duty of supervising the project.

When the contractor and employees is found contravening OHS Act, the DWS shall stop the work until such time that the contractor implemented corrective measures to the satisfaction of the DWS.

Section 37.2 Appointment

In accordance with the provisions of Section 37(2) of the Occupational Health and Safety Act 85 of 1993 wherein the Department of Water and Sanitation as Employer has entered into a contract with the Contractor, in terms of which the Contractor is to perform certain work and services for and on behalf of the Employer, subject to the terms and conditions as contained in such contract.

Then parties have agreed that in respect of performance of the work the Contractor shall be responsible for compliance with the Occupational Health & Safety Act and its Regulations. The Employer and Mandatory accordingly enter in this agreement in terms of Section 37(2) of the OHS Act, the terms, and conditions of which are set out in The Occupational Health and Safety Specification.

Risks Identified by the DWS

The following are the risks associated with this project as identified by the DWS:

- Service gate or isolating equipment failure
- Flooding
- Drowning
- Working at height
- Overhead Crane failure
- Injury due to falling material
- Failure of rigging equipment
- Falling due to slippery surfaces
- Scaffold and climbing equipment collapse
- Noise due to grinding, blast cleaning, etc
- Paint or chemical inhalation
- Injury due to hand tools
- Snake bite
- Hand arm vibration syndrome due to prolonged use of vibratory equipment
- Airborne Fibres and Materials
- Electrocution
- Moving Machinery
- Back injuries from carrying heavy loads
- Dehydration
- Injury of blasting equipment is serious
- Attack and theft (secluded site)

Notwithstanding the abovementioned risks the contractor shall formulate a risk management plan which will include additional risks identified by the contractor.

Costs of OHS

The cost for OHS shall be included in the Tendered rates.

6. Modifications

Any modifications or deviations from the specification shall be indicated on the form "Proposed Alterations to Specification". The Contractor shall make no changes or modifications to any part of the design, or the plan offered under this Contract without the written approval of the Project Engineer. The DWS shall not accept any additional cost for any part of this Contract if this procedure has not been followed.

7. MEASUREMENT AND PAYMENT

Basic Principles

Notwithstanding the breakdown as indicated in the Tender Pricing Schedule, all the work and requirements of any nature as specified in this Technical Specification shall be covered by the Contractor in the pricing as reflected in the Tender Pricing Schedule. No additional cost for any work or requirement in this Technical Specification shall be allowed. All items covered by this Technical Specification shall be measured as final units meeting the functional requirements of the relevant specifications.

ALL PRICES IN THE TENDER PRICING SCHEDULE SHALL INCLUDE VALUE ADDED TAX.

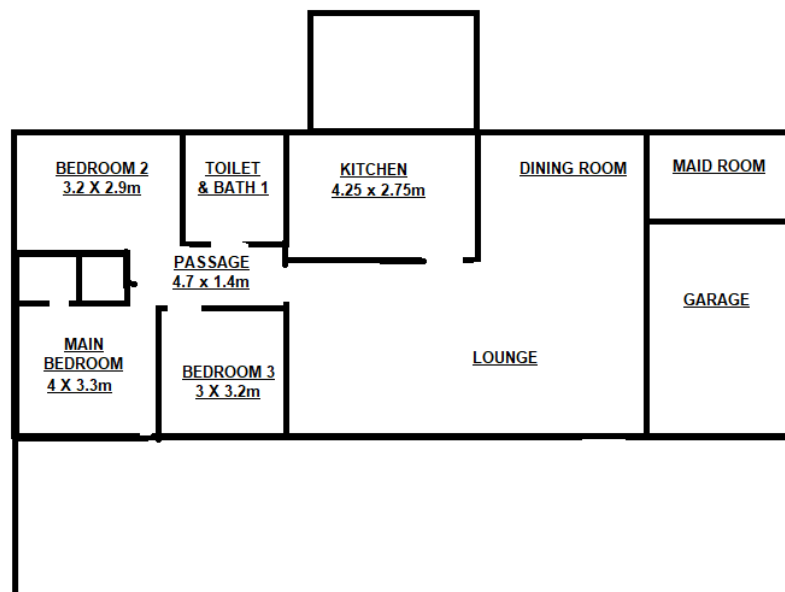
8. Bill Of Quantities

Bill of quantities shall be submitted with bid documents. Please read instructions before completing or filling the table.

9. DRAWINGS and specifications

Work to be done on Water Control officers House

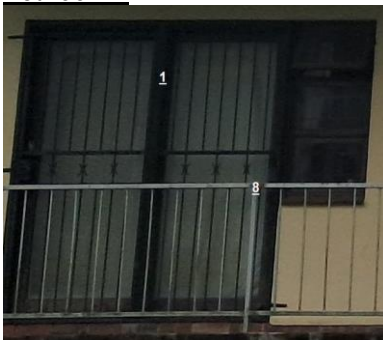
Layout of Water Control Officers house





FRONT VIEW

1. Bedroom 1



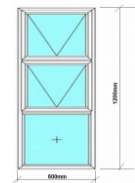
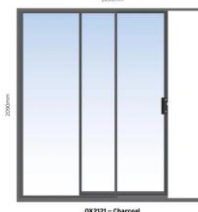
- Acrylic paint is one of the best types of paint to use on your home's exterior. It's a durable paint that is also heat- and cold-resistant. While oil-based paint is also durable, it's prone to fading, making it not as good of an option if you live someplace with extremely high heat
- The tiles on veranda are to be cleaned/high pressure sprayed and match the tiles at rear replacing asbestos
- The veranda support trusses are in good condition and appears to be recently maintained.



LED Sensor Day/Night Floodlight - Black (20W)

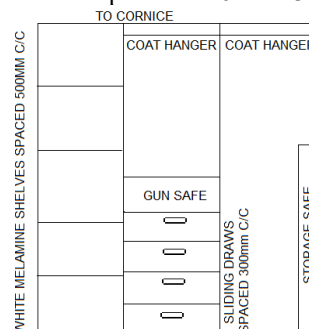
Work to be done

1. Sliding door dysfunctional need to be replaced with aluminium door
2. Wooden window frame needs to be replaced with aluminium matching sliding door
3. Gate and burglar bars need to be cleaned, rust proof and painted.
4. Exterior fluorescent light need to be replaced LED Sensor Day/Night Blister Floodlight - Black (20W) **charcoal window 1.2mx0.6mx3 + 1,1mx0.67m(side by side)**







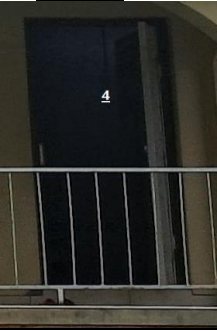




Sliding door measures W1800mm x H2100mm and is perfect for creating a seamless transition between indoor and outdoor areas. Features Material: **Aluminium Colour: Charcoal**

5. Build in cupboards 2.61m x 3.3m



6. Ceilings to be painted 3,3m x 4m

 <p>Style color and finish in Bedroom 1</p>	<p>7. Floors to be tiled porcelain 3.3m x 4m with skirtings</p> <p>8. Walls to be painted 2(3,3x2,6) + 2 (4mx2,6)</p>
<p>2. Bedroom 2 & 3</p> 	<p>Work to be done:</p> <ul style="list-style-type: none"> Window to be replaced with aluminium 1.220m x 1.10m Blinds to fit to be installed Install BIC 1.6m x 2.6m  <ul style="list-style-type: none"> Floors to be tiled porcelain 3.2m x 2.9 m with skirtings Walls to be painted 2(3.2x2.6) + 2(2.9x2.6)m Ceiling to be cleaned and painted 3.2m x 2.9m LED light 10w to be installed
<p>3, 5 & 7 Veranda area & Wall maintenance</p> 	<p>Work to be done:</p> <ul style="list-style-type: none"> Window replacement to aluminium 1.24m x 1.4m char Veranda area 2.5m x 7 m needs to be cleaned & painted Ceiling under veranda needs to be cleaned and painted LED 20w needs to be installed Sliding door lock to be replaced Hand rails need to be cleaned, rust proof and painted Beams need to be cleaned, old paint removed and painted (The best paint to use on your soffits and fascia is acrylic paint, not oil paint. Oil paint dries too slow and it's more likely to form mildew where the sun doesn't shine) Steel balustrade needs to be cleaned, rust proofed and painted Light fitting to be cleaned / replaced LED light 20W with day night sensor The gutters and downpipes need to be replaced PVC The exterior walls need to be cleaned, cracks need to be filled with Polyfilla and painted with high quality exterior paint. Walls to be painted 17m x 6m

<p>10. Lounge</p> 	<ul style="list-style-type: none"> • Main lounge door to be varnished • Trelli door to be cleaned, rust proof and painted
<p>8. Ballustrade</p> 	<p>To be sandpapered, rust proof paint applied and then painted. 14m long x 1.2m high</p>
<p>9. Roof Tiles</p> 	<p>To be cleaned, all algae removed 17m x 2m needs to be high pressure cleaned</p>
<p>10. & 11 Gutters & Downpipes</p> 	<p>Removed old gutters and downpipes and install new aluminium gutters 17m x 1 and downpipes 3m x 3</p>
<p>11. Header wall</p> 	<p>Wall needs to be filled, sandpapered and painted 17m x 2m = 34m²</p>



RIGHT VIEW

<u>Garage window 1</u>	Remove wooden window and frame and install aluminium charcoal 1.64m x 0.72m
<u>Maids room Window 2</u>	Remove wooden window and frame and install aluminium charcoal 0.60m x 0.72m
<u>Wall cracks 3</u>	All cracks to be filled, rubbed down and painted.
<u>Wall paint 4</u>	Old peeling off paint to be rubbed down area 7,6m X 6m = 45.6m ²
<u>Face brick 5</u>	7.6m x 0.5m to be high pressure cleaned
<u>Skirting 6</u>	1m concrete slab to be cast along the garage wall
<u>Paving 7</u>	<u>High pressure cleaning of paved area</u>

WORK TO BE ON BACKVIEW OF HOUSE



1 Asbestos removal

Area of asbestos to be removed
 $17\text{m} \times 7\text{m} = 119\text{m}^2$
 Timber beams to be assessed
 Water proofing to be installed
 Double roman roof tiles to be installed
 120m^2

2. Roof ridges

Roof Ridges need to be cleaned
 painted
 $2 \times 7\text{m} \times 200\text{mm} + 1 \times 17\text{m} \times 200\text{mm}$

3 Kitchen veranda

Awning to be removed $5\text{m} \times 4\text{m}$
 New timber beams to be installed
 length 5m breadth 4m ($150\text{mm} \times 50\text{mm}$)
 New awning to be installed $5\text{m} \times 4\text{m}$

<u>4. & 10. Wall maintenance</u>	Strip off old paint, seal cracks with Polyfilla Sandpaper and paint area 17m x 2,5m
<u>12. Bathroom window</u>	Old wooden frame 1.25m x 0.6m to be removed and replaced with aluminium charcoal
<u>13. Bedroom 3 window</u>	Old wooden bedroom window 1.100m x 1.00m to be replaced with aluminium charcoal
<u>14. Concrete slab</u>	Concrete slab to run parallel to building 1m width x 7m long
<u>15. Maids room door</u>	Exterior door 2,010m x 0,900m Toilet, and washbasin to be replaced 2 x interior townhouse doors Walls and ceiling painting 2(1,09m x 1,05m x height 2.7m) + Passage 1.2m x 1.00m x 2,7m
<u>16. Facebrick</u>	7.3m x 0,5m to be high pressure cleaned
<u>17. & 12 Downpipes & Gutters</u>	Old to be removed and disposed, install aluminium downpipe 2x 3m + gutters 17m

Work to be done on Left View of the House

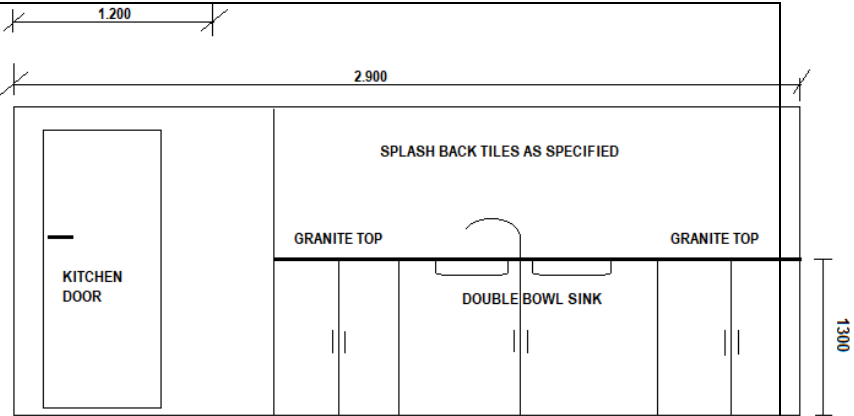













1. <u>Burglar bars</u>	Triangular shaped burglar bars 2 x 4m long 500mm to 0mm needs to be rust proof and painted
2 <u>Walls to kitchen veranda</u>	Walls 2 x 4m long x 2m high needs to be stripped off old paint, Polyfilla cracks, sandpapered and painted
3.<u>Crack repair</u>	All horizontal and vertical cracks need to be filled and sandpapered and painted
18. <u>Bedroom 3 window 2</u>	Old wooden window and frame 1.100m x 0.7m need to be replaced with aluminium charcoal to size
19. <u>Main en-suite toilet window</u>	Old wooden window frame 0.65m x 0.53m need to be replaced with aluminium charcoal to size
20. <u>Main bedroom window</u>	Old wooden window frame 1.100m x 0.67m need to be replaced with aluminium charcoal to size
21. <u>Wall maintenance</u>	Wall area 7, 6m x 6m needs to be cleaned, Polyfilla applied, sandpapered then painted
22. <u>Face brick</u>	Length 7,6m x (average)0,75m need to be cleaned and high pressure sprayed.
23. <u>Side walk</u>	1m x 7,6m need to be high pressure cleaned

Work to be done on kitchen










<u>Tiling</u>	Floor area 2.75m x 4.25m to match porcelain tiles in lounge
<u>Painting</u>	Splash back above sink wash basin 3m x 3m Interior walls should be painted before built in installed area $2(2,75 \times 2,3\text{m}) + 2(4,25 \times 2,3)$
<u>Kitchen Door</u>	Stable door to be installed 2.05m x 0.905m
<u>Built-in cupboards</u>	<p>The diagram illustrates a kitchen layout with the following components and dimensions:</p> <ul style="list-style-type: none"> Side-by-Side FRIDGE: Located on the left, with a height of 1300 cm and a width of 83 - 102 cm. DISPLAY CABINET: Located above the stove area, with a width of 0.470 m. EXTRACTOR FAN: Located above the display cabinet, with a width of 0.470 m. GRANITE TOP: Located below the display cabinet and above the stove, with a width of 0.470 m. STOVE: Located below the granite top, with a width of 0.470 m. OVEN: Located below the stove, with a width of 0.470 m. GRANITE TOP: Located below the oven, with a width of 0.470 m. Overall Dimensions: The total width of the kitchen unit is 2.900 m, and the total height is 2600 cm (1300 cm + 1300 cm).

	
	Pull handle mild steel fit 12mm x 96mm Black or silver
	Product labelcupboard hinge - 165 degree Gross weight (kg)1.00 Product width in cm10 Product depth in cm10 Product height in cm10
	Drawer ball bearing slide 45x350mm (payload 45kg) FIT
	White melamine shelving 16mm x 1830mm Shelves to be supported by strips on all four sides
	SENSEA Remix blue fjord available in sheets Doors to cut to specifications
	Chambervalue matt amber granite squareline postform top 600 x 3600 x 32mm Cut and fitted to size
	Tiles to be replaced around the double bowl wash basin as splash back Area specified in drawing above Price quotation to include, bonding liquid, tile fix and grout SABS standards apply
	Stainless Steel Drop-In Double Centre Bowl Sink 1500 x 500mm DC1550L/DCB
	Heavy Duty Kitchen Tap Mixer with Self-Retracting Pullout Faucet BA6832


	<p>Eye Level Static Oven A-Energy rating Removable inner glass Wire shelf with roaster included 4 solid plates with 1 high-speed plate Heat switches with indicator lights</p> <p style="text-align: right;">2 Year warranty</p>
	<ul style="list-style-type: none"> • 3 Speed Setting Fan Speeds • 2 Aluminium Filter • 600mm Size • 2 year(s) warranty

Work to be done on Bathroom 1 & 2

	<p>Interior/Exterior White only Application For ceilings and cornices Finish Interior/exterior Features: ColourWhiteSize5L Product/Packaging Information Product Weight5.41 kg Product Dimensions185mm(L) x 185mm(W) x 239mm(H)Shipping Weight5.41 kg Shipping Dimensions185mm(L) x 185mm(W) x 239mm(H)</p>
	<p>ANTI RUST is a superior acrylic based corrosion resistant primer for use on new metal, galvanized iron and already rusted surface To be used on all window-frames and burglar guards</p>
	<p>White Acrylic Built-In with Handles 170x70cm Base to be built to support tub, plumbing to be connected to existing plumbing, testing to be done at each stage of the tub installation.</p>
	<p>Acrylic Set must include: 1 x pan 1 x cistern 1 x mechanism 1 x basin 1 x pedestal</p>
	<p>- Twin Hole Bath Filler Tap - with handheld shower head. Solid brass body - Chrome finish. Cross Head Knobs. Hand-held shower head.1.5 metre - shower hose. High-Quality Material - This bath tap is made of high-precision copper and is durable & crack-resistant. Durable Ceramic Cartridge - Our bath mixer tap has a high-quality ceramic cartridge that can not only smoothly adjust the temperature and water volume but also effectively withstand high temperature and long-term wear, ensuring a long service life for your bathroom fitting. 2 Functions - Gently pull the diverter left and right to switch between the bath spout and shower</p>
	<p>- Body and spout made of brass suitable for high-quality faucets. Ceramic cartridge closure system. Includes aerator for a more comfortable jet. Especially for sinks embedded or with a tap support system. Surface is free of defects or scratches. Product tested to resist oxidation or corrosion. Proper operation from 20 to 125 PSI.</p>
	<p>Showerhead and shower arm are made of stainless steel, and shower mixer is brass bodies. It's high quality and durability. Specifications: Colour: Chrome-plated:1 x 6" Square Showerhead;1 x30cm Square Shower Arm; 1 Set Square Handle Shower Mixer</p>

Work to be done on Bedroom 3

<p>3. <u>Bedroom 3</u></p>	<p style="text-align: center;"><u>Work to be done:</u></p> <ul style="list-style-type: none"> • Window to be replaced x 2 with aluminium charcoal sizes 1.10m x 0.97m + 1.100m x 0.67m • Blinds to fit to be installed • Install BIC 3.25m x 2.6m • Floors to be tiled porcelain 3.2m x 3.2 m with skirtings • Walls to be painted 2(3.2x2.6) + 2(3.2x2.6)m • Ceiling to be cleaned and painted 3.2m x3.2m • LED light 10w to be installed
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	<p>WHITE MELAMINE SHELVES SPACED 500MM C/C</p> <p>TO CORNICE</p> <p>COAT HANGER</p> <p>SLIDING DRAWS SPACED 300mm C/C</p>	
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Style color and finish

Specifications of work to be done on Bedroom1, 2 & 3

	<p>Interior/Exterior White only Application For ceilings and cornices Finish Interior/exterior Features: ColourWhiteSize5L Product/Packaging Information Product Weight5.41 kg Product Dimensions185mm(L) x 185mm(W) x 239mm(H)Shipping Weight5.41 kg Shipping Dimensions185mm(L) x 185mm(W) x 239mm(H)</p>
	<p>ANTI RUST is a superior acrylic based corrosion resistant primer for use on new metal, galvanized iron and already rusted surface To be used on all window-frames and burglar guards</p>
 <p>Black or silver</p>	<p>Pull handle mild steel fit 12mm x 96mm</p>
	<p>Product labelcupboard hinge – 165 degree Gross weight (kg)1.00 Product width in cm10 Product depth in cm10 Product height in cm10</p>
	<p>Drawer ball bearing slide 45x350mm (payload 45kg) FIT</p>
	<p>White melamine shelving 16mm x 1830mm Shelves to be supported by strips on all four sides</p>
	<p>SENSEA Remix blue fford available in sheets Doors to cut to specifications</p>

Fencing requirements



Gate	To be supplied internally
Fencing	30x30 diamond wire mesh
Height	1.8m security fence with barb wire on top
Post	3m 100mmDiam posts x 6
Foundation for posts	1m x 1m x 0.5m deep
Y-standards	No. required 5

FORM A: CERTIFICATE OF ATTENDANCE AT COMPULSORY CLARIFICATION SITE MEETING

FORM B: CONTRACTOR'S HEALTH AND SAFETY DECLARATION

FORM C: HEALTH AND SAFETY ACT AGREEMENT

ANNEXURES

(indicate if not applicable)

C4.1 TENDER DRAWINGS : N/A

C4.1 PRO-FORMA QUALITY CONTROL PLAN: N/A

C4.1 PRO-FORMA COATING APPLICATION RECORD : N/A

C4.1 PRO-FORMA SURFACE PROFILE AND DFT READING : N/A

C4.1 PRO-FORMA TEST CERTIFICATE FOR COATING

MATERIAL: N/A