

**KWAZULU-NATAL DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT**

**BID No: DARD 28/20A**

**DESCRIPTION OF SERVICE:**

**APPOINTMENT OF A SERVICE PROVIDER FOR THE CONSTRUCTION OF SIX (6) WOOLSHED WITH HANDLING FACILITIES, DIP-TANK AND VIP LATRINES AT HARRY GWALA DISTRICT**

**NAME OF BIDDER:** \_\_\_\_\_

**PREQUALIFICATION CRITERIA**

Only bidders who meet both of the following prequalification criteria may respond: -

- (i) BBBEE Level 1 (as per the provisions of section 4(1) (a) of the PPPFA Regulations, 2017); and**
- (ii) EME (as per the provisions of section 4(1) (b) of the PPPFA Regulations,**
- (iii) Minimum CIDB 2 CE/GB**

**Briefing session**

Date	03 November 2020
Time	10:00
Venue	Harry Gwala District, Ixopo office

**Return of Bid:**

Bids must be deposited in the bid box situated at Department of Agriculture and Rural Development, Supply Chain Management, 1 Cedara Road, Cedara, 3200 or send by post to The Director: Supply Chain Management, Private Bag X9059, Pietermaritzburg, 3200.

Tel: **(033) 355 9109** before **11:00** am on the closing date: **16 November 2020**

**Issued by:**

The Department of Agriculture and Rural Development

1 Cedara Road

Cedara

3200

## TABLE OF CONTENTS

		CONTENTS	PAGE
		Cover page	1
		Table of contents	2
Part A	SBD 1	Invitation to Bid	3 - 4
	SBD 3	Special Instructions and Notices to Bidders Regarding the Completion of Bidding Forms	5
	SBD 3.3	Pricing Schedule (Professional Services)	6
	SBD 4	Declaration of Interest.	7 - 9
	SBD 6.1	Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2017	10 - 14
	SBD 6.2	Declaration Certificate for Local Production and Content for Designated Sectors	15 - 22
	SBD 7.2	Contract Form - Rendering Of Services	23 - 24
	SBD 8	Declaration of bidder's past Supply Chain Management practices	25 - 26
	SBD 9	Certificate of Independent Bid Determination	27 - 29
	SBD 10	Briefing Certificate	30
	SBD11	Authority to sign a Bid	31 - 36
Part B		General Conditions of Contract	37 - 51
Part C		Terms of Reference	52 - 53
Part D		Special Terms and Conditions	54 - 69
Part E		Specifications, Bill of Quantities and Drawings	70 - 229
Part F		Bid Disqualifying Factors	230 - 232

**Bidders are to check that all pages and forms are included in the bid documentation and notify the Department immediately if any pages or sections are missing**

## INVITATION TO BID

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)</b>					
BID NUMBER:	DARD 28/20A		CLOSING DATE:	16/11/2020	
CLOSING TIME:	11:00 AM				
DESCRIPTION	Woolshed with handling facilities, dip-tank and VIP latrines at Harry Gwala District				
<b>BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)</b>					
Bid must be deposited in the bid box situated at Department of Agriculture and Rural Development					
Supply Chain Management					
1 Cedara Road					
Cedara, 3200					
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b>			<b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>		
CONTACT PERSON	Ms Nozizwe Makaula		CONTACT PERSON	Mr J Jongisa	
TELEPHONE NUMBER	033 - 355 9109		TELEPHONE NUMBER	082 922 0880	
FACSIMILE NUMBER	n/a		FACSIMILE NUMBER	n/a	
E-MAIL ADDRESS	nozizwe.makaula@kzndard.gov.za		E-MAIL ADDRESS		
<b>SUPPLIER INFORMATION</b>					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
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
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES &amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3 ]
<b>QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS</b>					
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.					

## TERMS AND CONDITIONS FOR BIDDING

<b>1. BID SUBMISSION:</b>
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</b>
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. <b>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).</b>
<b>2. TAX COMPLIANCE REQUIREMENTS</b>
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 <a href="http://WWW.SARS.GOV.ZA">WWW.SARS.GOV.ZA</a> .
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 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: .....

**SPECIAL INSTRUCTIONS AND NOTICES TO BIDDERS REGARDING THE  
COMPLETION OF BIDDING FORMS**

PLEASE NOTE THAT THIS BID IS SUBJECT TO TREASURY REGULATIONS 16A ISSUED IN TERMS OF THE PUBLIC FINANCE MANAGEMENT ACT, 1999, THE KWAZULU-NATAL SUPPLY CHAIN MANAGEMENT POLICY FRAMEWORK AND THE GENERAL CONDITIONS OF CONTRACT.

1. Unless inconsistent with or expressly indicated otherwise by the context, the singular shall include the plural and vice versa and with words importing the masculine gender shall include the feminine and the neuter.
2. Under no circumstances whatsoever may the bid forms be retyped or redrafted. Photocopies of the original bid documentation may be used, but an original signature must appear on such photocopies.
3. The bidder is advised to check the number of pages and to satisfy himself that none are missing or duplicated.
4. Bids submitted must be complete in all respects.
5. Bids shall be lodged at the address indicated not later than the closing time specified for their receipt, and in accordance with the directives in the bid documents.
6. Each bid shall be addressed in accordance with the directives in the bid documents and shall be lodged in a separate sealed envelope, with the name and address of the bidder, the bid number and closing date indicated on the envelope. The envelope shall not contain documents relating to any bid other than that shown on the envelope. If this provision is not complied with, such bids may be rejected as being invalid.
7. All bids received in sealed envelopes with the relevant bid numbers on the envelopes are kept unopened in safe custody until the closing time of the bids. Where, however, a bid is received open, it shall be sealed. If it is received without a bid number on the envelope, it shall be opened, the bid number ascertained, the envelope sealed and the bid number written on the envelope.
8. A specific box is provided for the receipt of bids, and no bid found in any other box or elsewhere subsequent to the closing date and time of bid will be considered.
9. No bid sent through the post will be considered if it is received after the closing date and time stipulated in the bid documentation, and proof of posting will not be accepted as proof of delivery.
10. No bid submitted by telefax, telegraphic or other electronic means will be considered.
11. Bidding documents must not be included in packages containing samples. Such bids may be rejected as being invalid.
12. Any alteration made by the bidder must be initialed.
13. Use of correcting fluid is prohibited
14. Bids will be opened in public as soon as practicable after the closing time of bid.
15. Where practical, prices are made public at the time of opening bids.
16. If it is desired to make more than one offer against any individual item, such offers should be given on a photocopy of the page in question. Clear indication thereof must be stated on the schedules attached.

**PRICING SCHEDULE**  
**(Professional Services)**

NAME OF BIDDER: .....

CLOSING TIME: **11h00**

CLOSING DATE: **16-11- 2020**

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

---

BID NUMBER	DESCRIPTION	TOTAL BID PRICE IN RSA CURRENCY *(All applicable taxes included)
<b>DARD 28/20A</b>	<b>APPOINTMENT OF A SERVICE PROVIDER FOR THE CONSTRUCTION OF SIX (6) WOOLSHED WITH HANDLING FACILITIES, DIP-TANK AND VIP LATRINES AT HARRY GWALA DISTRICT</b>	

Official Company  
Stamp

\_\_\_\_\_  
**Signature**

## DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state<sup>1</sup>, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-
  - the bidder is employed by the state; and/or
  - the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.
2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**
  - 2.1 Full Name of bidder or his or her representative: .....
  - 2.2 Identity Number : .....
  - 2.3 Position occupied in the Company (director, trustee, shareholder<sup>2</sup>): .....
  - 2.4 Company Registration Number: .....
  - 2.5 Tax Reference Number: .....
  - 2.6 VAT Registration Number: .....
  - 2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below.

<sup>1</sup>"State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

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

2.7 Are you or any person connected with the bidder presently employed by the state? YES / NO

2.7.1 If so, furnish the following particulars:

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? YES / NO

2.7.2.1 If yes, did you attached proof of such authority to the bid document? YES / NO

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

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

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? YES / NO

2.8.1 If so, furnish particulars:

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

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? YES / NO

2.9.1 If so, furnish particulars.

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

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid? YES/NO



2.10.1 If so, furnish particulars

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

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract?

YES/NO

2.11.1 If so, furnish particulars.....

.....  
.....

**3 Full details of directors / trustees / members / shareholders.**

Full Name	Identity Number	Personal Tax Reference Number	State Employee Number / Persal Number

**4 DECLARATION**

I, THE UNDERSIGNED (NAME).....  
CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.  
ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF  
PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION  
PROVE TO BE FALSE.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Position

\_\_\_\_\_  
Name of bidder

## PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.**

### 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

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

1.2

- a) The value of this bid is estimated to not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable;

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
<b>Total points for Price and B-BBEE must not exceed</b>	<b>100</b>

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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

### 2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 

1)	level certificate issued by an authorized body or person;	B-BBEE    Status
2)	as prescribed by the B-BBEE Codes of Good Practice;	A sworn affidavit
3)	requirement prescribed in terms of the B-BBEE Act;	Any            other
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

### 3. POINTS AWARDED FOR PRICE

#### 3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

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

Where

- P<sub>s</sub>     =     Points scored for price of bid under consideration
- P<sub>t</sub>     =     Price of bid under consideration
- P<sub>min</sub>   =     Price of lowest acceptable bid

#### 4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

- 4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

#### 5. BID DECLARATION

- 5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

#### 6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

- 6.1 B-BBEE Status Level of Contributor: . = .....(maximum of 20 points)  
(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

#### 7. SUB-CONTRACTING

- 7.1 Will any portion of the contract be sub-contracted?

(*Tick applicable box*)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

- 7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted .....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(*Tick applicable box*)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

- v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

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

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

**8.4 TYPE OF COMPANY/ FIRM**

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Company
- ☐ (Pty) Limited

[TICK APPLICABLE BOX]

**8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....

.....

.....

.....

**8.6 COMPANY CLASSIFICATION**

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

[TICK APPLICABLE BOX]

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

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

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

- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the bidding process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution.

WITNESSES

- 1. ....
- 2. ....

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

DATE:.....

ADDRESS: .....

.....

.....

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

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

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

### 1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 makes provision for the promotion of local production and content.
- 1.2. Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

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

Where

x is the imported content in Rand

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

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

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

1.6 A bid may be disqualified if –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and
- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

## 2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour or intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor's assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

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

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



4. Does any portion of the services, works or goods offered have any imported content?

(Tick applicable box)

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

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

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

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

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

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

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?

(Tick applicable box)

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

- 5.1. If yes, provide the following particulars:

- (a) Full name of auditor: .....
- (b) Practice number: .....
- (c) Telephone and cell number: .....
- (d) Email address: .....

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

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

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

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

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

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

.....  
NB

1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thdti.gov.za/industrialdevelopment/ip.jsp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ..... (full names),

do hereby declare, in my capacity as .....

of .....(name of bidder entity),  
the following:

(a) The facts contained herein are within my own personal knowledge.

(b) I have satisfied myself that:

- (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (ii) the declaration templates have been audited and certified to be correct.

(c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

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

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

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

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

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

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

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

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

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

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

### Local Content Declaration - Summary Schedule

**Note:** VAT to be excluded from all calculations

Pula  EU  GBP [illegible]

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

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

(D1)  
(D2)  
(D3)  
(D4)  
(D5)  
(D6)

<b>Tender No.</b>	
<b>Tender description:</b>	
<b>Designated Products:</b>	
<b>Tender Authority:</b>	
<b>Tendering Entity name:</b>	
<b>Tender Exchange Rate:</b>	Pula

EU	R 9,00	GBP	R 12,00
----	--------	-----	---------

### Calculation of imported content

[illegible]

**This total must correspond with  
Annex C - C 21**

### Calculation of imported content

[illegible]

Value by tenderer	R 0
-------------------	-----

### Calculation of imported content

[illegible]

due by 3rd party	R 0
------------------	-----

### Calculation of foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange
(D46)	(D47)	(D48)	(D49)	(D50)

### Summary of payments

**Signature of tenderer from Annex B**

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

**This total must correspond with  
Annex C - C 23**

### **Local Content Declaration - Supporting Schedule to Annex C**

**Note:** VAT to be excluded from all calculations

(E9) Total local products (Goods, Services and Works)	R 0
---	-----

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest) etc. R 0

(E13) Total local content	R 0
---------------------------	-----

**Signature of tenderer from Annex B**

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

**CONTRACT FORM - RENDERING OF SERVICES**

**THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.**

**PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)**

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)..... in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid .
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
  - (i) Bidding documents, viz
    - Invitation to bid;
    - Tax clearance certificate;
    - Pricing schedule(s);
    - Filled in task directive/proposal;
    - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
    - Declaration of interest;
    - Declaration of bidder's past SCM practices;
    - Certificate of Independent Bid Determination;
    - Special Conditions of Contract;
  - (ii) General Conditions of Contract; and
  - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

**WITNESSES**

1 .....

2 .....

DATE: .....

**CONTRACT FORM - RENDERING OF SERVICES****PART 2 (TO BE FILLED IN BY THE PURCHASER)**

1. I..... in my capacity As.....  
accept your bid under reference number .....dated.....for the  
rendering of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

4. I confirm that I am duly authorised to sign this contract.

SIGNED AT .....ON.....

NAME (PRINT) .....

SIGNATURE .....  
OFFICIAL STAMP

WITNESSES

1 .....  
.....



**DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES**

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be disregarded if that bidder, or any of its directors have-
  - a. abused the institution's supply chain management system;
  - b. committed fraud or any other improper conduct in relation to such system; or
  - c. failed to perform on any previous contract.
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

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

**CERTIFICATION**

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

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

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

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

- 1 This Standard Bidding Document (SBD) must form part of all bids<sup>1</sup> invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
  - a. disregards the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
  - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

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

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

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid:

---

(Bid Number and Description)

in response to the invitation for the bid made by:

---

(Name of Institution)

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

I certify, on behalf of: \_\_\_\_\_ that:

(Name of Bidder)

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

**SBD 9**

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;
  - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
  - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

---

Signature

---

Date

---

Position

---

Name of Bidder

Bid No: **DARD 28/20A**

**APPOINTMENT OF A SERVICE PROVIDER FOR THE CONSTRUCTION OF SIX (6)  
WOOLSHED WITH HANDLING FACILITIES, DIP-TANK AND VIP LATRINES AT HARRY  
GWALA DISTRICT**

---

THIS IS TO CERTIFY THAT (NAME): .....

ON BEHALF OF: .....

ATTENDED THE COMPULSORY BRIEFING SESSION ON.....(DATE)

AND IS THEREFORE FAMILIAR WITH THE CIRCUMSTANCES AND THE SCOPE OF THE  
SERVICE TO BE RENDERED.

.....  
**NAME AND SIGNATURE OF BIDDER OR AUTHORISED REPRESENTATIVE**

**DATE:**.....

.....  
**NAME AND SIGNATURE OF DEPARTMENTAL REPRESENTATIVE**

**DATE:** .....

**DEPARTMENTAL OFFICIAL STAMP:**

**AUTHORITY TO SIGN A BID****A. COMPANIES**

If a Bidder is a company, a certified copy of the resolution by the board of directors, personally signed by the chairperson of the board, authorising the person who signs this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the company must be submitted with this bid, that is before the closing time and date of the bid

**AUTHORITY BY BOARD OF DIRECTORS**

By resolution passed by the Board of Director.....20.....,

Mr/Mrs.....

(whose signature appears below) has been duly authorised to sign all documents in connection with this bid on behalf of

(Name of Company) .....

**IN HIS/HER CAPACITY AS:** .....

**SIGNED ON BEHALF OF COMPANY:**

.....  
(PRINT NAME)

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

**WITNESSES:** 1.....

2.....

**B. SOLE PROPRIETOR (ONE - PERSON BUSINESS)**

I, the undersigned..... hereby confirm that I am the  
sole owner of the business trading as.....

.....

**SIGNATURE**..... **DATE**.....

**C. PARTNERSHIP**

The following particulars in respect of every partner must be furnished and signed by every partner:

Full name of partner	Residential address	Signature
----------------------	---------------------	-----------

.....	.....	.....
-------	-------	-------

.....	.....	.....
-------	-------	-------

.....	.....	.....
-------	-------	-------

We, the undersigned partners in the business trading

as.....hereby authorise

.....to sign this bid as well as any contract resulting from  
the bid and any other documents and correspondence in connection with this bid and /or contract  
on behalf of

.....  
**SIGNATURE**

.....  
**SIGNATURE**

.....  
**SIGNATURE**

.....  
**DATE**

.....  
**DATE**

.....  
**DATE**



**D. CLOSE CORPORATION**

In the case of a close corporation submitting a bid, a certified copy of the Founding Statement of such corporation

shall be included with the bid, together with the resolution by its members authorising a member or other official of

the corporation to sign the documents on their behalf.

By resolution of members at a meeting on ..... 20.....

at..... Mr/Ms....., whose signature

appears below, has been authorised to sign all documents in connection with this bid on behalf of

(Name of Close Corporation) .....

.....

**SIGNED ON BEHALF OF CLOSE CORPORATION:**

.....

(PRINT NAME)

**IN HIS/HER CAPACITY AS** ..... **DATE:** .....

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

**WITNESSES:** 1.....

2.....

## **E CO-OPERATIVE**

A certified copy of the Constitution of the co-operative must be included with the bid, together with the resolution by its members authoring a member or other official of the co-operative to sign the bid documents on their behalf.

By resolution of members at a meeting on ..... 20.....

at.....

Mr/Ms....., whose signature appears below, has been authorised to sign all documents in connection with this bid on behalf of (Name of cooperative) .....

**SIGNATURE OF AUTHORISED REPRESENTATIVE/SIGNATORY:** .....

**IN HIS/HER CAPACITY AS:** .....

**DATE:** .....

**SIGNED ON BEHALF OF CO-OPERATIVE:** .....

**NAME IN BLOCK LETTERS:** .....

**WITNESSES: 1**.....

**2**.....

**F JOINT VENTURE**

If a bidder is a joint venture, a certified copy of the resolution/agreement passed/reached signed by the duly authorised representatives of the enterprises, authorising the representatives who sign this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the joint venture must be submitted with this bid, before the closing time and date of the bid.

**AUTHORITY TO SIGN ON BEHALF OF THE JOINT VENTURE**

By resolution/agreement passed/reached by the joint venture partners on.....20.....

Mr/Mrs.....,Mr/Mrs.....

Mr/Mrs.....and Mr/Mrs.....

(whose signatures appear below) have been duly authorised to sign all documents in connection with this bid on behalf of:(Name of Joint Venture) .....

IN HIS/HER CAPACITY AS: .....

SIGNED ON BEHALF OF (COMPANY NAME): .....  
(PRINT NAME)

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

IN HIS/HER CAPACITY AS: .....

SIGNED ON BEHALF OF (COMPANY NAME): .....  
(PRINT NAME)

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

IN HIS/HER CAPACITY AS: .....

SIGNED ON BEHALF OF (COMPANY NAME): .....  
(PRINT NAME)

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

IN HIS/HER CAPACITY AS: .....

## **G. CONSORTIUM**

If a bidder is a consortium, a certified copy of the resolution/agreement passed/reached signed by the duly authorised representatives of concerned enterprises, authorising the representatives who sign this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the consortium must be submitted with this bid, before the closing time and date of the bid.

### **AUTHORITY TO SIGN ON BEHALF OF THE CONSORTIUM**

By resolution/agreement passed/reached by the consortium on.....20.....

Mr/Mrs.....

(whose signature appear below) have been duly authorised to sign all documents in connection with this bid on behalf of:

(Name of Consortium) .....

**IN HIS/HER CAPACITY AS:** .....

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

**PART B**

**GENERAL CONDITIONS OF CONTRACT**

**DEFINITIONS:** The following terms shall be interpreted as indicated:

- (a) "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.
- (b) "Contract" means the written agreement entered into between the Province and the Contractor, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (c) "Contract price" means the price payable to the Contractor under the contract for the full and proper performance of his contractual obligations.
- (d) "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- (e) "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
- (f) "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognised new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- (g) "Day" means calendar day.
- (h) "Delivery" means delivery in compliance with the conditions of the contract or order.
- (i) "Delivery ex stock" means immediate delivery directly from stock actually on hand.
- (j) "Delivery into consignees store or to his site" means delivery and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the Contractor bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
- (k) "Dumping" occurs when a private enterprise abroad market its goods and services on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
- (l) "Force majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such event may include, but is not restricted to, acts of the Province in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- (m) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.

- (n) "GCC" means the General Conditions of Contract.
- (o) "Goods" means all the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- (p) "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the Contractor or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic, where supplies covered by the bid will be manufactured.
- (q) "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- (r) "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- (s) "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- (t) "Project site" where applicable, means the place indicated in bidding documents.
- (u) "Province" means the procuring Department, incorporating the KwaZulu-Natal Provincial Legislature.
- (v) "Republic" means the Republic of South Africa.
- (w) "SCC" means the Special Conditions of Contract.
- (x) "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the Contractor covered under the contract.
- (y) "Written" or "in writing" means handwritten in ink or any form of electronic or mechanical writing.

## **1. CESSION OF CONTRACTS**

- 1.1 The Contract is personal to the Contractor who shall not sub-let, assign, cede or make over the Contract or any part thereof, or any share of interest therein, to any other person without the written consent of the Province, and on such conditions as it may approve.
- 1.2 This sub-clause shall not apply to sub-contracts given to regular suppliers of the Contractor for materials and minor components relating to the goods or services supplied. The Province reserves the right to require the Contractor to submit, for noting, the names of such sub-contractors in order to ascertain their registration on the Provincial Suppliers Database and they must be legal entities.

## **2. DISCREPANCIES**

Should there appear to be any discrepancies, ambiguities or want of agreement in description, dimensions, qualities or quantities in the Contract, the Contractor shall be obliged to refer the matter to the Provinces' Representative for a decision, before proceeding to execute the Contract or part thereof in respect of which the said discrepancies, ambiguities or want of agreement appear to exist.

## **3. QUALITY AND GUARANTEE**

- 3.1 All Goods supplied shall be equal in all respects to samples, patterns or specifications where such are provided. Any changes to quality or brands will have to be approved by the Province, as this is a change to the conditions of the contract.
- 3.2 Should the Province, after the award of the Contract and/or during the manufacture of the goods specified, decide on a variation or alteration to the specification, either at the suggestion of the Contractor or otherwise, which will be to the Province's advantage, such variation or alteration shall be performed to the Province's satisfaction. Any variation in the Contract Price arising there from shall be subject to agreement between the Province and the Contractor.
- 3.3 The Contractor shall not be relieved of his obligations with respect to the sufficiency of the materials and workmanship and the quality of the Goods supplied by the reason of no objection having been taken thereto by the Province's Representative at the time the Goods were delivered.
- 3.4 The Contractor warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The Contractor further warrants that all goods supplied under this contract shall have no defect, arising from design, materials or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the Contractor, that may develop under normal use of the supplied goods in the conditions prevailing in the country of the final destination.
- 3.5 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in the Special Conditions of Contract.

- 3.6 The Province shall promptly notify the Contractor in writing of any claims arising under this warranty. The Contractor shall immediately remedy the said defect free of cost to the Province. Should the Contractor delay remedial work in excess of time stipulated by the Province's representative, the Province may have such remedial work executed at the Contractor's expense. Should the Province decide that the defect is such that it cannot be remedied, the Goods may be rejected. Such rejected goods shall be held at the risk and expense of the Contractor and shall, on request of the Province, be removed by him immediately on receipt of notification of rejection. The Contractor shall be responsible for any loss the Province may sustain by reason of such action as the Province may take, in terms of this clause.
- 3.7 The risk in respect of the Goods purchased by the Province under the contract shall remain with the Contractor until such goods have been delivered to the Province.
- 3.8 The principle feature of the Goods and Work are described in the Goods or Services Information, but the Goods or Services Information does not purport to indicate every detail of construction, fabrication or arrangements of Goods and Works necessary to meet the requirements. Omission from the Goods or Services information of reference to any part or parts shall not relieve the Contractor of his responsibility for carrying out the Work as required under the Contract.
- 3.9 If any dispute arises between the Province and the Contractor in connection with the quality and guarantee of the Goods, either party may give the other notice in writing of the existence of such dispute, and the same shall thereupon be referred to arbitration in South Africa by a person mutually agreed upon by both parties. The submission shall be deemed to be a submission to arbitration within the meaning of the terms of the arbitration laws in force in the Republic of South Africa.

#### **4. FAILURE TO COMPLY WITH CONDITIONS AND DELAYED EXECUTION**

- 4.1 If a bidder amends or withdraws his/her/their bid after the closing time but before the bidder is notified that his/her/their bid has been accepted, or when notified that his/her/their bid has been accepted, he/she/they fail/fails, within the period stipulated in the conditions of bid or such extended period as the Province may allow, to sign a contract or to provide security when requested to do so, he/she/they shall, unless the Province decides otherwise, and without prejudice to any other right which the Province may have under paragraphs 4.2 and 4.4, including the right to claim damages if a less favourable bid is accepted or less favourable arrangements are to be made, forfeit any deposit which may have been made with the bid.
- 4.2 Should the contractor fail to comply with any of the conditions of the contract, the Province shall be entitled, without prejudice to any of its other rights, to cancel the contract.
- 4.3 Upon any delay beyond the contract period in the case of a supplies contract, the Province shall, without canceling the contract, be entitled forthwith to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any supplies delivered later at the contractor's expense and risk, or forthwith to cancel the contract and buy such supplies as may be required to complete the contract, and without prejudice to its rights, be entitled to claim damages from the contractor.
- 4.4 Upon any delay beyond the contract period in the case of a service contract, the Province shall, without prejudice to any other right and without canceling the contract, be entitled forthwith to arrange the execution of the service not rendered in conformity with the contract or to cancel the contract, and without prejudice to its other rights, be entitled to claim damages from the contractor.



- 4.5 In the event of the Province availing itself of the remedies provided for in paragraph 4.2-
- 4.5.1 the contractor shall bear any adverse difference in price of the said supplies services and these amounts plus any other damages which may be suffered by the Province, shall be paid by the contractor to the Province immediately on demand, or the Province may deduct such amounts from moneys (if any) otherwise payable to the contractor in respect of supplies or services rendered or to be rendered under the contract or under any other contract or any other amounts due to the contractor; or
  - 4.5.2 if the Contractor fails to supply the goods or render the service within the period stipulated in the contract, the Province shall have the right, in its sole discretion, to claim any damages or loss suffered.
- 4.6 No damages shall be claimed in respect of any period of delay which the contractor can prove to be directly due to a state of war, sanctions, strikes, lockouts, damage to machinery as a result of accidents, fire, flood or tempest or act of God, which could not be foreseen or overcome by the contractor, or to any act or omission on the part of persons acting in any capacity on behalf of the Province.
- 4.7 If the delivery of the supplies or the rendering of the service is likely to be delayed or is in fact being delayed on account of any of the reasons mentioned in paragraph 4.6, full particulars of the circumstances shall be reported forthwith in writing to the Province and at the same time the contractor shall indicate the extension of the delivery period which is desired.
- 5. PATENTS**
- 5.1 The Contractor shall pay all royalties and expenses and be liable for all claims in respect of the use of patent rights, trademarks or other protected rights, and hereby indemnifies the Province against any claims arising there from.
  - 5.2 The Contractor shall indemnify the Province against all third-party claims of infringement of patent, trademark, or industrial design rights arising from the use of the goods or any part thereof by the Province.
- 6. PACKAGING, MARKING AND DELIVERY**
- 6.1 All goods shall be crated, packed or battened securely in such a manner as to prevent damage during loading, transport and off-loading. Unless otherwise specified, packing cases and packing materials are included in the Contract Price, and shall be and remain the property of the Province.
  - 6.2 All goods shall be clearly marked in the manner stated in the Goods or Services Information.
  - 6.3 Goods shall be delivered to the address within the Province's area of jurisdiction as set out in the Special Conditions of Contract or Goods and Services Information.
  - 6.4 Goods shall be delivered on Weekdays between 08:00 and 16:00, free of all charges, only when ordered upon an official letter or form of order issued by the Province. No goods will be received on Saturdays, Sundays and public holidays. This paragraph (6.4) is applicable only when not excluded in the Special Conditions of Contract.

- 6.5 Goods delivered shall in all cases be accompanied by delivery notes in duplicate, one which will be retained by the Province. The Contractor shall be responsible for the safe delivery as to the quality, quantity and condition of the goods.
- 6.6 Delivery, unless otherwise provided for in the Special Conditions of Contract, shall be affected within seven (7) days from receipt of the order. The Contractor shall advise the Province upon receipt of an order in writing of any anticipated delays, citing reasons therefore and put forward a new anticipated delivery date. The Province may then extend the delivery date, if and as it deems fit.
- 6.7 Should the Contractor fail to supply the material within the time stated in his bid, or within the extended time allowed to him in terms of clause 6.6 hereof, the Province reserves the right (after giving the Contractor seven days' notice in writing) to cancel the contract and purchase the materials elsewhere and the bidder shall refund to the Province any extra cost incurred over and above the contract price. No liability shall, however, be attached to the Contractor if delivery of materials is rendered impossible or delayed by reason of circumstances beyond the Contractor's control.
- 6.8 If the Contractor cannot produce proof satisfactory to the Province that the delay was due to circumstances beyond his control, no price increase after the due date will be recognized.
- 6.9 If at any time the Province ascertains that, due to negligence of the Contractor or for reasons beyond his control:
  - 6.9.1 No work on the order has been commenced and in the opinion of the Province, there is little or no prospect of work being commenced in reasonable time;
  - 6.9.2 Delivery of any materials is being or is likely to be delayed beyond the delivery date promised, and/or
  - 6.9.3 There is little or no prospect of the order being completed within a reasonable time after the promised date; the Province may, by notice to the Contractor in writing, cancel as from the future date specified in such notice, the whole or any part of the order in respect of which material has not been delivered by that date without incurring any liability by reasons of such cancellation. The cases where circumstances beyond the control of the Contractor have delayed commencement or completion of the order, cancellation of the order will be effected by mutual arrangement or where this is not possible by the decision of the Province. The Contractor shall then as soon as possible after such date deliver to the Province that part of the order which has been completed, and payment is to be effected is for the part performance on a proportional basis, subject to the uncompleted part not being an integral or essential part of the contract.
- 6.10 Should a price other than an all-inclusive price be required, this shall be specified in the SCC.

## **7. CONSIGNMENT OF GOODS**

- 7.1 Goods, if delivered by Spoornet may be consigned carriage paid in the Contractor's name, care of the Province to the place of delivery stipulated, but not in the name of the State. Goods consigned to stores located in areas which Spoornet may refuse to deliver, must be done so care of a local agent or to a local depot from which they may be re-delivered by road to such stores.
- 7.2 Contractors shall arrange with Spoornet to deliver goods to the Province's stores during the hours and on the days that the stores are open.

- 7.3 The Province will not be responsible for any damage, re-delivery charges or any other charges raised by Spoornet.
- 7.4 Claims on the South African Transport Services or on any other carrier in respect of weight, quantity, damage or loss, shall be made by the Contractor.

## **8. PAYMENT**

- 8.1 The Contractor shall furnish the Province with an invoice accompanied by a copy of the delivery note upon fulfilment of other obligations stipulated in the contract.
- 8.2 Payments shall be made promptly by the Province, but in no case later than thirty days (30) days after submission of an invoice or claim by the Contractor.
- 8.3 Payments will be made in Rand unless otherwise stipulated.
- 8.4 Payments for goods are made by the Province only. Any disputes regarding late or delayed payments must be taken up with the department and if a problem persists, the Supply Chain Management Office can be requested to investigate the delays.

## **9. INVOICES**

All invoices submitted by the Contractor must be Tax Invoices indicating quantity ordered and quantity delivered, the amount of tax charged and the total invoice amount.

## **10. CONTRACT PRICE ADJUSTMENT**

- 10.1 Firm contract prices shall not be subject to adjustment. Contract prices which are not firm shall be increased or reduced by the amount of variation between the Cost to Bidder and the actual cost to the Contractor, such variations to be subject to the following conditions:-
  - 10.1.1 Where the Cost to Bidder was based on a printed catalogue or list price, the variation shall be the difference between that price list and the price list actually charged. Should it transpire that the Cost to Bidder was not based on the latest available price list at the Date of Bid, the Province shall have the right to elect the price list on which any variation shall be based.
  - 10.1.2 Where the Cost to Bidder was based on a quotation by the manufacturer, or where the Contractor is the manufacturer, and the Contract Price was based on the cost of materials and labour ruling at a certain date, the variation in the Contract Price shall be calculated by means of the Steel and Engineering Industries Federation of South Africa (SEIFSA) formula if this is stipulated in the Contract, or if the Province's representative considers it to be appropriate. Where the use of the SEIFSA formula is not appropriate, the variation shall be calculated by means of another formula acceptable to the Province, which shall be indicated in the Special Conditions of Contract. Only those cost increases due to wage increases prescribed by regulating measures having the force of law, or increases in the cost of materials and railage as may be proven by documentary evidence, or published data, will be considered in determining Contract Price variation.

- 10.1.3 Any difference between Rates and Charges ruling at the time of bid and those actually paid by the Contractor will be for the account of the Province. The Contract Price adjustment arising from any variation in Rates and Charges shall, in every instance, be applied to the appropriate value, or tonnage, of the Goods shipped. Where a variation in the Cost to bidder has been allowed, the contract price shall be adjusted by the product of such variation and every component of Rates and Charges which is based on the value of the Goods, whether or not the costs of such components have varied.
- 10.1.4 No claim for increased costs will be entertained if the Contractor is unable to produce documentation to substantiate Cost to Bidder and Rates and Charges on which the contract price was based and documentation to support his claim. Such documentation must, in the opinion of the Province, adequately support the Contractor's claim. No claim for increased costs to the Contractor arising from negligence on his part, or that of the manufacturer, will be considered.
- 10.1.5 The Contractor shall, in respect of every consignment or shipment of Goods delivered, supply to the Province's Representative documentary evidence of variation, if any, in Cost to Bidder and Rates and Charges.
- 10.1.6 Claims for increased cost shall be submitted with the invoice for the Goods in respect of which the claim is made, or as soon thereafter as possible. Claims shall not be considered if received more than 90 days after the expiry of the Contract unless notice of intention to claim has been given to the Province before such date.
- 10.1.7 In the event of there being no claim by the Contractor for increased costs, the Contractor shall not be entitled to full payment under the Contract before he has submitted to the Province, in his own name or in the name of the manufacturer, a certificate declaring that there have been no adjustments in the cost of manufacture which entitle the Employer to a reduction in the Contract Price as provided for in this clause.

## **11. REMEDIES IN THE CASE OF DEATH, SEQUESTRATION, LIQUIDATION OR JUDICIAL MANAGEMENT**

- 11.1 In the event of the death of a contractor or the provisional or final sequestration of his/her/their estate or of his/her/their cession or transfer of a contract without the approval of the Province or of the surrender of his/her/their estate or of his/her/their reaching a compromise with his/her/their creditors or of the provisional or final liquidation of a contractor's company/closed corporation or the placing of its affairs under judicial management, the Province may, without prejudice to any other rights it may have, exercise any of the following options :
  - 11.1.1 Cancel the contract and accept any of the bids which were submitted originally with that of the contractor or any offer subsequently received to complete the contract. In such a case the estate of the contractor shall not be relieved of liability for any claim which has arisen or may arise against the contractor in respect of supplies not delivered or work not carried out by the contractor, under the contract.
  - 11.1.2 Allow the executor, trustee, liquidator or judicial manager, as the case may be, for and on behalf of and at the cost and expense of the estate of the contractor to carry on with and complete the contract.

11.1.3 For and on behalf of and at the cost and expense of the estate of the contractor, itself carry on with and complete the contract and in that event the Province may take over and utilize, without payment, the contractor's tools, plant and materials in whole or in part until the completion of the contract.

11.2 Should the Province elect to act in terms of paragraph 11.1.3 it shall give notice of its requirements to the executor, trustee, liquidator or judicial manager of the contractor's estate and should the said executor, trustee, liquidator or judicial manager fail within 14 days of the dispatch of such notice to make provision to the satisfaction of the Province for the fulfillment of such requirements, or should no trustee, liquidator or judicial manager be appointed within 14 days of the occurrence mentioned in paragraph 11.1, the Province may apply any remedy open to it in terms of the contract as if a breach thereof had taken place.

11.3 Should the Province act in terms of paragraph 11.1.3 the contractor must leave the premises immediately and may not occupy such premises on account of retention or any other right.

## **12. LAW TO APPLY**

12.1 The Contract shall in all respects be construed in accordance with the law of the Republic of South Africa, and any difference that may arise with the law of the Republic of South Africa, and any difference that may arise between the Province and the Contractor in regard to the Contract, shall be settled in the Republic of South Africa.

## **13. OFFERING OF COMMISSION OR GRATUITY**

13.1 If the Contractor, or any person employed by him, is found to have either directly or indirectly offered, promised or given to any office bearer of the Province or person in the employ of the Province, any commission, gratuity, gift or other consideration, the Province shall have the right, summarily and without recourse to law and without prejudice to any other legal remedy which it may have in regard to any loss or additional cost or expenses, to cancel the Contract without paying any compensation to the Contractor.

## **14. PREFERENCES**

14.1 Should the Contractor apply for preferences in the submission of his bid, and it is found at a later stage that these applications were incorrect or made under false pretences, the Province may, at its own right:-

14.1.1 Recover from the Contractor all costs, losses or damages incurred or sustained by the Province as a result of the award of the Contract; and / or

14.1.2 Cancel the contract and claim any damages which the Province may suffer by having to make less favourable arrangements after such cancellation.

14.1.3 The Province may impose penalties, however, only if provision therefore is made in the Special Conditions of Bid.

## **15. WEIGHTS AND MEASURES**

15.1 The quantities of goods offered or delivered shall be according to South African standard weights and measures.

## **16. SECURITY**

16.1 Special Conditions of Contract relating to Surety/Guarantee requirement must be dealt with in strict compliance with the Conditions of Bid set out herein.

16.2 In respect of contracts less than R 500 000, the guarantees and sureties required may be based on a risk evaluation conducted by the Province inviting the bid.

16.3 No deposits are required for bid applications for contracts below R 500 000.

## **17. ORDERS**

17.1 Goods shall be delivered and services rendered only upon receipt of a written official order or the signing of a contract with the Province, and accounts shall be rendered as indicated on the official order or in the contract, as the case may be.

17.2 The Province reserves the right to call upon any Contractor during the contract period to make known the following details:

- 17.2.1 Name of Institution placing order;
- 17.2.2 Provincial official order number;
- 17.2.3 Quantity ordered; and
- 17.2.4 List of items ordered.

## **18. EXPORT LICENCES**

18.1 When orders are placed for goods in respect of which an export licence from the country of origin of supplies is required, the Contractor shall:

18.1.1 Not incur any direct or indirect costs in connection with the supply or dispatch of such supplies before he has obtained such licence;

18.1.2 If the government of the country from which the supplies are to be exported refuses, or fails to grant such licence within three months of the placing of the order, the order shall be considered to be cancelled and no liability will be accepted for any loss or expenses irrespective of the nature thereof, including loss or expenditure suffered or incurred by the Contractor or any other person in respect of the production, supply, transportation or delivery of such supplies.

## **19. INSURANCE**

19.1 The goods supplied under the contract shall be fully insured in a freely convertible Currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

19.2 Any insurance policies taken out by a Contractor to cover goods delivered for a contract must be taken out with a company registered in South Africa in terms of relevant insurance and companies acts.

## **20. INSPECTION, TESTS AND ANALYSES**

20.1 In terms of Provincial policy, inspections of a Bidder's goods and services are permitted. Bidders and Contractors must allow reasonable access to premises to officials from the department inviting the bid, or person specially appointed by the Province to carry out inspection or tests. There are two main categories: Firstly, where the bid conditions call for goods to be inspected during the contract period. Secondly, where the inspection results are to be submitted with the bid document.



- 20.2 If it is a bid condition that goods to be produced should at any stage during production or on completion be subject to inspection, the premises of the Contractor shall be open, at all reasonable hours, for inspection by a representative of the Province or of an organization acting on its behalf.
- 20.3 Inspections tests and analyses may be carried out prior to dispatch in regard to such contract goods as may be deemed necessary by the Province, and the Contractor shall provide, if required, all the required facilities for the inspection, tests and analyses of the goods free of charge and shall, if required, provide all the materials, samples and labour and available apparatus which may be required for the purposes of such inspection, tests and analyses free of charge, unless otherwise specified.
- 20.4 If there are no inspection requirements in the bid documents and no mention thereof is made in the letter of acceptance, but during the contract it is decided that inspections shall be carried out, the Province shall itself make the necessary arrangements, including payment arrangements, with the testing authority concerned. The premises of the Bidder Contractor must be open and accessible at all reasonable times for the purposes of these tests.
- 20.5 If the inspection, tests and analyses show the goods or service to be in accordance with contract requirements, the cost of the inspection, tests and analyses shall be defrayed by the Province calling for such tests or analyses. Where the supplies or services do not comply with the contract, the costs shall be defrayed by the Contractor and the Province shall have the right, without prejudice to any other legal remedy it may have, to deduct such costs from payments due to the Contractor under the contract or under any other contract.
- 20.6 Goods and services which do not comply with the contract requirements may be rejected.
- 20.7 Any goods may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract, and such rejected goods shall be held at the cost and risk of the Contractor who shall, when called upon, remove them immediately at his own cost and forthwith substitute them for goods which do comply with the requirements of the contract, failing which such rejected goods shall be returned at the Contractor's cost and risk. Should the Contractor fail to provide the substitute goods forthwith, the Province may, without giving the Contractor a further opportunity to substitute the rejected goods, purchase such supplies as may be necessary at the expense of the Contractor, for example, the transport costs and other expenses regarding the rejected goods must be refunded by the Contractor.
- 20.8 Where imported goods are to be inspected before delivery, the Contractor shall notify his suppliers abroad of the conditions applicable to inspections.
- 20.9 Provisions contained in sub-clause 20.1 and 20.8 shall not prejudice the right of the Province to cancel the contract on account of a breach of the conditions thereof.

## **21. RESTRICTION OF BIDDING**

- 21.1 Without prejudice on any other legal remedies, the Province may impose restrictions on a Bidder in terms of which bids to the Province will not be accepted for such period as determined by the Province. This information may be passed to other provinces or State organisations in the Republic of South Africa. These restrictions may be imposed in terms of the breach of any of the requirements to be met in terms of the accepted bid or contract. The Province may also make a restriction on a bidder from another province or State institution applicable to this Province.

**22. CONTRACTOR'S LIABILITY**

- 22.1 In the event of the contract being cancelled by the Province in the exercise of its rights in terms of these conditions, the Contractor shall be liable to pay to the Province any losses sustained and/ or additional costs or expenditure incurred as a result of such cancellation, and the Province shall have the right to recover such losses, damages or additional costs by means of set-off from moneys due or which may become due in terms of the contract or any other contract or from guarantee provided for the due fulfilment of the contract and, until such time as the amount of such losses, damages or additional costs have been determined, to retain such moneys or guarantee or any deposit as security for any loss which the Province may suffer or may have suffered.
- 22.2 The Contractor may be held responsible for any consequential damages and loss sustained which may be caused by any defect, latent or otherwise, in supply or service rendered or if the goods or service as a result of such defect, latent or otherwise, does not conform to any condition or requirement of the contract.

**23. PRICE LISTS**

Price lists which are part of the contract shall not be amended without the approval of the Province, unless the SCC specify otherwise.

**24. SUBMISSION OF CLAIMS**

- 24.1 Claims must be submitted within 90 days of the delivery date of items, but the delivery date will be calculated according to the delivery period stipulated in terms of the contract, unless an extension for late delivery has been granted by the Province.
- 24.2 For period contracts, no price increase will be granted within the first 180 days of the contract period. No price increase applications which are submitted later than 90 days after the contract period expired will be considered. The claims shall be accompanied by documentary proof and, if required, an auditor's report sustaining the claim shall be provided.
- 24.3 Claims referring to formulae and indices must be clearly set out in terms of indices or formulae values used to calculate the bid price, and the adjusted indices or values.

**25. PROVINCIAL PROPERTY IN POSSESSION OF A CONTRACTOR**

- 25.1 Province's property supplied to a Contractor for the execution of a contract remains the property of the Province and shall at all times be available for inspection by the Province or its representatives. Any such property in the possession of the Contractor on the completion of the contract shall, at the Contractor's expense, be returned to the Province forthwith.
- 25.2 The Contractor shall be responsible at all times for any loss or damages to the Province's property in his possession and, if required, he shall furnish such security for the payment of any such loss or damages as the Province may require.

**26. RIGHTS TO PROCURE OUTSIDE THE CONTRACT**

- 26.1 The Province reserves the right to procure goods outside the contract in cases of urgency or emergency or if the quantities are too small to justify delivery costs, or if the goods are obtainable from another organ of Province or if the Contractor's point of supply is not situated at or near the place where the goods are required or if the Contractor's goods are not readily available.
- 26.2 No provision in a contract shall be deemed to prohibit the obtaining of goods or services from a Province or local authority.



**27. AMENDMENT OF CONTRACT**

No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force and effect unless such agreement to amend or vary is entered into in writing and signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing.

**28. NOTICES**

- 28.1 Every written acceptance of a bid shall be posted to the supplier/bidder concerned by registered or certified mail and any other notice to him/her/it shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him/her/it in writing and such posting shall be deemed to be proper service of such notice.
- 28.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting such notice.

**29. INCIDENTAL SERVICES**

- 29.1 The Contractor may be required to provide any or all of the following services, including additional services, if any, specified in the Special Conditions of Bid:
- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
  - (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
  - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
  - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the Contractor of any warranty obligations under this contract; and
  - (e) training of the Province's personnel, at the Contractor's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.
- 29.2 Prices charged by the Contractor for incidental services, if not included in the Contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Contractor for similar services.

**30. USE OF CONTRACT DOCUMENTS AND INFORMATION INSPECTION**

- 30.1 The Contractor shall not, without the Province's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Province in connection therewith, to any person other than a person employed by the Contractor in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 30.2 The Contractor shall not, without the Province's prior written consent, make use of any document or information mentioned in GCC clause 30.1 except for purposes of performing the contract.
- 30.3 Any document, other than the contract itself mentioned in GCC clause 30.1 shall remain the property of the Province and shall be returned (all copies) to the Province on completion of the Contractor's performance under the contract or so required by the Province.

- 30.4 The Contractor shall permit the Province to inspect the Contractor's records relating to the performance of the Contractor and to have them audited by auditors appointed by the Province, if so required by the Province.

### **31. SPARE PARTS**

- 31.1 If specified in SCC, the Contractor may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Contractor:
- (a) such spare parts as the Province may elect to purchase from the Contractor, provided that this election shall not relieve the Contractor of any Warranty obligations under the contract.
  - (b) In the event of termination of production of the spare parts:
    - (i) Advance notification to the Province of the pending termination, in sufficient time to permit the Province to procure needed requirements; and
    - (ii) Following such termination, furnishing at no cost to the Province, the blueprints, drawings, and specifications of the spare parts, if requested.

### **32. PENALTIES**

- 32.1 Subject to GCC Clause 4, if the Contractor fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the Province shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of delayed goods or unperformed services, using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The Province may also consider termination of the contract in terms of the GCC.

### **33. ANTI-DUMPING AND COUNTERVAILING DUTIES AND RIGHTS**

- 33.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favorable difference shall on demand be paid forthwith by the Contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the Contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him.

### **34. GOVERNING LANGUAGE**

- 34.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

### **35. TAXES AND DUTIES**

- 35.1 A foreign Contractor shall be entirely responsible for all taxes, stamp duties, licence fees, and other such levies imposed outside the Province's country.
- 35.2 A local Contractor shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the Province.

- 35.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Province must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

**PART C****TERMS OF REFERENCE****1. BACKGROUND**

- 1.1. Achieving and maintaining high levels of growth in the agricultural sector is a key national policy objective that holds a high priority in the programmes of the KwaZulu-Natal Department of Agriculture and Rural Development (herein after referred to as Department). The Department endeavours to contribute to economic growth within the agricultural sector and in the process promote commercialization in the smallholder farm sector, increase opportunities for skilled and relatively unskilled employment, and increase food security. The Department has therefore prioritized the need to assist resource-poor and emerging sheep farmers with shearing sheds.

**2. OBJECTIVES**

- 2.1. To appoint suitably qualified Service Providers for the construction of **wool sheds and sheep dip**, with ancillary works and supplies.

<b>Project No.</b>	<b>Project</b>	<b>Local Municipality</b>	<b>Location Coordinates</b>	<b>Tick (✓) next to preferred Project</b>
1.	Dayi	Umzimkhulu	30° 18' 30.6"S & 29°58' 22.6"E	
2.	Kopanang	Greater Kokstad	30°34'58.0"S & 29°34'45.0"E	
3.	Marhambeni	Greater Kokstad	30° 12' 01.8"S & 29°32' 53.7"E	
4.	Mtshibeni	Umzimkhulu	30° 05' 58,9" S & 29°48' 37,9"E	
5.	Emvubukazi	Umzimkhulu	30°15' 0,73"S & 29° 49'55,5" E	
6.	Sihleza	Umzimkhulu	30° 26' 28"S & 29°44' 29,9"E	

- 2.2. To ensure the timely realization of a cost effective, well-built wool/ shearing shed and ancillary works of good quality to resource-poor and emerging farmers.

**3. SCOPE OF SERVICES**

- 3.1. The project covers:

- 3.1.1. Construction of a 20.00m x 9.00m x 2.70m (wall/eaves height) shearing shed;
- 3.1.2. Construction of outdoor handling facilities;
- 3.1.3. Construction of a sheep dip tank;
- 3.1.4. Construction of toilet facilities;
- 3.1.5. Erection of perimeter fencing.
- 3.1.6. Construction of a storm water cut off drain

- 3.2. Documents to accompany this bid specification are listed in the Table of Contents.

#### **4. COMPLETENESS OF THE DOCUMENT**

The information regarding subsurface conditions, materials on site and site information supplied, is provided in good faith for the contractor's convenience as an indication of conditions likely to be encountered. No responsibility will be accepted for, and there is no guarantee of the information being representative of the whole area of the works or materials. The information provided will not be regarded as in any way limiting the Contractor's responsibilities. He/ She will be held to have satisfied himself of all conditions to be encountered on site and to allow accordingly in his/her tendered rates.

#### **5. APPLICABLE STANDARDS**

The South African Bureau of Standards, Standard Specifications for Civil Engineering Construction (SABS 1200) shall apply to this Contract together with additional amendments as set out herein. The Contractor shall have available for reference on site at all times a full set of the above specifications, together with any other to which they refer. These specifications shall remain the property of the Contractor but shall be made available to the Engineer whenever required throughout the duration of the Contract.

#### **6. CONTRACT DOCUMENTS**

This document must be read in conjunction with Drawings 1 - 15 (See Annexure E - List of Drawings). If the contractor has the impression that the information provided in the drawings and the technical specifications and or Bill of Quantities contradict each other or are perceived to be ambiguous, (s)he should point this out to the Engineer and ask for clarification at before the commencement of any construction. The same applies for any other purported differences between these documents

#### **7. INVOLVEMENT OF ENGINEERING STAFF**

The Engineering Services Directorate (ESD) takes no responsibility for nurseries built on the basis of this document alone without any prior involvement of ESD before (partial) completion.

This involvement consists of, but is not necessarily restricted to:

- a. Signing off of the bid/quote document and Drawings by ESD;
- b. Presence of ESD at the handover of the site to the contractor and at the commencement of the work. The contractor is to make sure that ESD is informed of his/her intention to commence the work so that ESD presence can be assured.
- c. Supply to the contractor by ESD of at least A3 - size plans. The drawings supplied with this document are for quoting/bidding purposes only and no construction should take place before the contractor has received the bigger sized building plans.
- d. Regular site inspections by ESD and the processing of invoices on the basis of achieved progress.

District managers and other departmental end users are therefore required to involve ESD at the earliest possible stage, i.e. during PPC meetings or before submission of the request memo.

## **PART D**

### **SPECIAL TERMS & CONDITIONS**

#### **APPOINTMENT OF A SERVICE PROVIDER FOR THE CONSTRUCTION OF A WOOLSHED WITH HANDLING FACILITIES, DIPTANK AND VIP LATRINES AT DAYI, UMZIMKHULU LM, HARRY GWALA DM**

#### **1. INTRODUCTION**

- 1.1 Bidders must ensure that they are fully aware of all the Terms and Conditions contained in this bid document. Only bidders that fully meet the prequalification shall be considered.
- 1.2 The Bidder is required to check the number of consecutively numbered pages. Should any found to be missing or in duplicate, or the text of figures indistinct, or should there be any doubt or obscurity as to the meaning of any part of these documents, the Bidder must ascertain the true meaning or intent of the same prior to the submission of his/her Bid. No claims arising from any incorrect interpretation will be admitted.

#### **2. ACCEPTANCE OF BID**

- 2.1 The Departmental Bid Adjudication Committee is under no obligation to accept any bid.

#### **3. AMENDMENT OF CONTRACT**

- 3.1 Any amendment to or renunciation of the provisions of the contract shall at all times be done in writing and shall be signed by both parties, subject to the Departmental Bid Adjudication Committee approval.

#### **4. AWARD**

- 4.1 The bid has six (6) projects within the Harry Gwala district and in order to ensure equitable Distribution of opportunities arising from this bid, **the department will award ONE service provider per project.**
- 4.2 As indicated in 4.1 above that the department will award per project, a tenderer will only be considered for award in one project. Where a service provider has been recommended for award in one project, they will not be considered for award in other project even if they score the highest points. This approach is in line with Section 11 (1) and (2) of PPPFA Regulations 2017. An objective criteria is defined as part of the evaluation criteria.
- 4.3 In implementing the objective criteria, the department reserves the right to negotiate the price with the awarded bidder where the highest scoring bidder has not been awarded.
- 4.4 In the event the department is unable to award a service provider for a particular project (for whatever reason) or in the event a contractor fails to deliver, the department reserves the right to utilize contractors awarded in other projects. In this event, the department will request quotations from all awarded contractors in other districts and apply a preference point system which may include an objective criteria.
- 4.5 Bidders who meet the prequalification and administrative bid requirements shall be scored on functionality and only bidders with a minimum score of 70 shall be evaluated on price and preference points.

## 5. BASIS OF QUANTITIES

- 5.1 Quantities are as reflected on the Bill of Quantities.

## 6. BBBEE CERTIFICATE

- 6.1 A bidder must submit a valid BBBEE certificate or a sworn affidavit together with the bid for pre-qualification purposes and for claiming BBBEE points.
- 6.2 All BBBEE certificates issued by IRBA, Accountants and Accounting Officers are no longer valid certification and will no longer be considered.

## 7. CHANGE OF ADDRESS

- 7.1 Bidders must advise the Departmental Supply Chain Management, Contract Administration should their ownership or address (*domicilium citandi et executandi*) details change from the time of bidding to the expiry of the contract.

## 8. COMPETENCY OF THE SERVICE PROVIDER

- 8.1 Tenderers must have a CIDB contractor grading designation of **2CE/GB** or higher. Potentially emerging enterprises who satisfy criteria stated in the Tender Data may submit tender offers. The contractor is to submit evidence of his/her OWN **Active** registration.
- 8.2 For evaluation processes, the Department shall apply the evaluation criteria as outlined in the Bid Evaluation Criteria of this bid.
- 8.3 It shall be vital for the appointed supplier to have sufficient financial resources and capacity to finance and execute as per terms and conditions of the contract.
- 8.4 **The roof design shall be outsourced by the contractor, at the cost of the contractor. The design and construction shall be certified by an ECSA registered professional engineer.**

## 9. COMPULSORY SITE BRIEFING

- 9.1 A compulsory site-briefing meeting will be held with prospective Bidders. Attendance at the meeting will be compulsory and non-attendance shall invalidate any bid. The date and time of the meeting will be published in the Bid Advertisement.

## 10. COUNTER OFFERS

- 10.1 Counter offers shall not be considered.

## 11. DELIVERY CONDITIONS

- 11.1 Delivery of services must be made in accordance with the instructions appearing on the official purchase order.
- 11.2 All deliveries or dispatches must be accompanied by a delivery note stating the official purchase order number against the delivery that has been affected.
- 11.3 In respect of items awarded to them, contractors must adhere strictly to the delivery periods stipulated by them in their bid document.

- 11.4 The instructions appearing on the official purchase order form regarding the supply, dispatch and submission of invoices must be strictly adhered to.
- 11.5 All invoices submitted must be original.
- 11.6 Deliveries not complying with the order form shall be returned to the contractor at the contractor's expense.
- 11.7 No locally manufactured product may be substituted during the contract period with an imported product, and vice versa, without prior approval of the Departmental Bid Adjudication Committee.

## **12. DETAILS OF CONSTRUCTION CONTRACTS AWARDED TO THE BIDDER PAST/CURRENT (ANNEXURE C3)**

- 12.1 The bidder must furnish the following details of all verifiable past and current construction contracts.
  - 12.1.1 Date of commencement of contract/s;
  - 12.1.2 Value per contract; and
  - 12.1.3 Contract details; that is, with whom held, phone number and Address/s of the companies.

## **13. ENTERING OF DEPARTMENTAL PREMISES**

- 13.1 No representative from a company shall be permitted to enter Departmental premises, buildings or containers where stores are kept unless he/ she is accompanied by the responsible official in charge of stores.

## **14. EQUAL BIDS**

- 14.1 If two or more bidders score an equal total number of points, the contract must be awarded to the bidder that scored the highest points for BBEE.
- 14.2 If functionality is part of the evaluation process and two or more bidders score equal total points and equal preference points for BBEE, the contract must be awarded to the bidder that scored the highest points for functionality.
- 14.3 If two or more bidders score equal total points in all respects, the award shall be decided by the drawing of lots.

## **15. INVOICES**

- 15.1 All invoices submitted by the Contractor must be Tax Invoices accompanied by payment certificates, indicating the work done, the amount of tax charged and the total invoice amount.
- 15.2 A tax invoice shall be in the currency of the Republic of South Africa and shall contain the following particulars:
  - 15.2.1 The name, address and registration number of the supplier;
  - 15.2.2 The name and address of the recipient;
  - 15.2.3 An individual serialized number and the date upon which the tax invoice is issued;
  - 15.2.4 A description of the goods or services supplied;
  - 15.2.5 The payment certificate;
  - 15.2.6 The value of the payment certificate amount, the amount of tax charged and the description of the works completed;



## **16. IRREGULARITIES**

- 16.1 Companies are encouraged to advise the Department timeously of any possible irregularities which might come to their notice in connection with this or other contracts.

## **17. JOINT VENTURES**

- 17.1 In terms of the Preferential Procurement Regulations, 2017 pertaining to the Preferential Procurement Policy Framework Act 5 of 2000, a trust, consortium or joint venture must submit a consolidated BBBEE Status Level Verification Certificate for every separate bid.
- 17.2 Should this bid be submitted by a joint venture, the joint venture agreement must accompany the bid document before the closing date and time of bid. The joint venture agreement must clearly specify the percentage of the contract to be undertaken by each company participating therein.
- 17.3 The non-submission of a BBBEE Certificate by a trust, consortium or joint venture shall result in zero (0) preference points being allocated for evaluation purposes.
- 17.4 Each party to a Joint Venture/ Consortium must submit an original valid Tax Clearance Certificate together with the bid before the closing date and time of bid.
- 17.5 The joint venture or consortium must submit a formal agreement that outlines the roles and responsibilities of each member of the joint venture or consortium, nomination of an authorised person to represent the joint venture or consortium in all matters relating to this bid and the details of the bank account for payments to be effected.
- 17.6 The joint venture or consortium must comply with Central Suppliers Database (CSD) registration requirements as per National Treasury directive.

## **18. LATE BIDS**

- 18.1 Bids are late if they are received at the address indicated in the bid documents after the closing date and time.
- 18.2 A late bid shall not be considered and, where practical, shall be returned unopened to the Bidder, accompanied by an explanation.

## **19. NOTIFICATION OF AWARD OF BID**

- 19.1 The successful bidder shall be notified via an advert in the same media as the invitation to tender.

## **20. PAYMENT FOR SUPPLIES AND SERVICES**

- 20.1 A contractor shall be paid by the Department in accordance with the services rendered as per the payment certificate.
- 20.2 There will be no payment for materials or equipment delivered to site, unless they have been installed or otherwise used in the construction process.
- 20.3 Should a contractor indicate a special discount on his/her account provided payment is made within a certain time, the Department shall make every effort to take advantage of such discount.

20.4 Any query concerning the non-payment of accounts must be directed to the Department. The following protocol shall apply if accounts are queried:

20.4.1 Contact must be made with the officer-in-charge of the District Office;

20.4.2 If there is no response from the District Office, the Director: Finance must be contacted;

20.5 Information as contained on the Central Suppliers Database must be valid/correct. Non-compliance with Tax Requirements shall affect payment.

## **21. PERIOD OF CONTRACT**

21.1 The contract is ad hoc / once off.

For the completion period, see Clause 59 *Period of Completion & Rate of Progress*.

## **22. PRE-QUALIFICATION CRITERIA**

22.1 Only bidders who meet both of the following prequalification criteria may respond:-

- (i) **BBBEE level 1 (as per the provisions of section 4(1)(a) of the PPPFA Regulations, 2017);**
- (ii) **EME (as per the provisions of section 4(1)(b) of the PPPFA Regulations, 2017) ;**  
**and**
- (iii) **Minimum CIDB 2 CE/GB.**

22.2 Bidders must submit documentary proof of compliance with the above prequalification criteria.

22.3 Bidders who fail to comply with the above-stipulated prequalification criteria or fail to submit documentary proof of the compliance with the prequalification criteria shall not be considered for this bid.

## **23. QUALITY CONTROL/ TESTING OF PRODUCTS**

23.1 The Department reserves the right to inspect and verify the quality and specifications of the supplied materials and equipment, as well as other items listed on the Bill of Quantities, **before** construction and/or installation. In case of deviations in terms of dimensions, strength, numbers or otherwise, the Contractor shall replace these goods for the correct ones at his/her own expense.

23.2 The same replacement obligation to the Contractor would apply during installation and during and after commissioning.

23.3 In the case of sustained or repeated non-adherence to the specifications of the materials and/or equipment, as well as in the case of general negligence during the implementation process, the contract may be cancelled. The Department will in such cases seek compensation from the contractor for the estimated costs for completion.

23.4 In cases of deliberate negligence or unwillingness to adhere to the Departmental specifications, the Service provider will be reported to the Provincial and/or National Treasury for listing on the Restricted section of the Central Suppliers database.

## 24. ORDER OF PRECEDENCE

- 24.1 This invitation to bid/quote is issued in accordance with the provisions of the Public Finance Management Act (PFMA), Chapter 16 A of the *Treasury Regulations* and shall be subject to the provisions of the *National Treasury Government Procurement General Conditions of Contract* (July 2010). The *Special Terms and Conditions* are supplementary to that of the *General Conditions of Contract*. Where, however, the *Special Terms and Conditions* are in conflict with the *General Conditions of Contract*, the *Special Terms and Conditions* shall prevail.

## 25. SUPPLIERS DATABASE REGISTRATION

- 25.1 A bidder submitting an offer must be registered on the Central Suppliers Database at National Treasury. A bidder who has submitted an offer and is not registered on the Central Suppliers Database shall not be considered at the time of award. No pending registrations shall be considered.

- 25.2 A Joint Venture/Consortium must be registered on the Central Suppliers Database at the time of submitting the bid.

**NB: If a bidder is found to be employed by the State and is on the Central Suppliers database, the bidder shall be disqualified.**

## 26. TAX AND DUTIES

- 26.1 During quotation stage, prices offered and paid must include all customs, excise and import duties, and any other tariffs or taxes levied by the government or statutory body having jurisdiction on the goods provided under this contract, including Value Added Tax (applicable at the current rate).

## 27. TAX COMPLIANCE PIN

- 27.1 The bidder must submit a valid Tax Compliance Pin with the bid. Bidders should note that their tax compliance status shall be verified through the Central Supplier Database and SARS.
- 27.2 Where a Tax Compliance Pin is not submitted with the bid, the Department shall use the Central Supplier Database to verify the tax matters of the bidder.

## 28. UNSATISFACTORY PERFORMANCE

- 28.1 Unsatisfactory performance occurs when performance is not in accordance with the contract conditions.
- 28.2 The Departmental official shall warn the contractor in writing that action shall be taken in accordance with the contract conditions unless the contractor complies with the contract conditions and delivers satisfactory supplies or services within a specified reasonable time (7 days minimum).
- 28.3 If the Contractor fails to commence the Works or to proceed with and complete the Works in compliance with the projected timeframes, the Head of Department or his/her representative shall take action in terms of its his/her delegated powers and adopt and exercise one of the following courses wholly or partly, viz: -

28.3.1 To direct the Contractor, in writing, on any day named therein to suspend and discontinue the execution of the Works, and to withdraw himself and his workmen from the said Site or Sites,

28.3.2 To make a recommendation to the Accounting Officer for cancellation of the contract concerned.

28.3.3 To Contract or Contracts by calling for Bids or otherwise with any other Contractor or Contractors for the completion of the Works, or any part thereof, at such times and upon such terms as to the Department shall deem best.

28.4 In relation to the foregoing provisions the Department shall charge any sums of money which may be paid by the Department for completing the said Contract against the Contractor and if such amount shall exceed this Contract, then the Department shall have the right to recover such excess or any balance thereof from the Contractor by legal proceedings.

28.5 When correspondence is addressed to the contractor, reference shall be made to the contract number/ item number/s and an explanation of the complaint.

## **29. VALIDITY PERIOD OF BID AND EXTENSION THEREOF**

29.1 The validity (binding) period for the bid shall be **120 days** from close of bid. However, circumstances may arise whereby the Department will request bidders to extend the validity (binding) period. Should this occur, the Department shall request bidders to extend the validity (binding) period under the same terms and conditions as originally offered for by bidders. This request shall be done before the expiry of the original validity (binding) period.

## **30. VALUE ADDED TAX (VAT)**

30.1 Bid prices must be inclusive of 15% VAT.

30.2 Bidders who make taxable supplies in excess of R1 million in any 12-month consecutive period are liable for compulsory VAT registration, but a person may also choose to register voluntarily provided that the minimum threshold of R50 000 (as of 1 March 2010) has been exceeded in the past 12-month period. Bidders who meet the above requirement must register as VAT vendors, if successful, within one month of award of the bid.

30.3 For the purposes of calculating preference points, VAT shall not be considered during quotation process.

## **31. SERVICE LEVEL AGREEMENT**

31.1 The successful Bidder and the Department will sign a Service Level Agreement (SLA) prior to commencement of works. A proposed schedule of works must be provided by the contractor for the approval of the Engineer within two weeks of receiving notification of a successful bid.

31.2 The *Special Terms and Conditions (STC)*, the *Standard Technical Specifications (STS)* and the *Project Particular Specifications (PPS)* as listed in this bid document, together with the *Drawings*, are deemed to form part of the SLA.

## **32. COMMENCEMENT OF THE WORK**

32.1. Site establishment must start within two (2) weeks, and the actual works within three weeks after hand-over of the site, provided that;

- 32.1.1. An official order has been issued;
- 32.1.2. The contractor is in possession of all relevant documentation required for works execution;
- 32.1.3. No exceptional circumstances such as inclement weather or other outside the control of either party to the contract prevail.

32.2. In case work has not commenced within two (2) weeks of the site hand-over and no attenuating circumstances for the delay can be provided, the Department reserves itself the right to cancel the contract

### **33. HANDOVER OF SITE TO CONTRACTOR**

- 33.1. The Department will organize a site hand-over to the contractor who will then be introduced to the project stakeholders and participants.
- 33.2. The site will be handed back at works completion after a final inspection by the Engineer revealed no outstanding patent defects.
- 33.3. The Contractor will control the site for the contract duration. Only the Contractor's own employees, Contractor's local labour and Departmental Representatives will be allowed on site.
- 33.4. The Contractor is responsible in the administration, control and security on the site at all times during the contract duration.

### **34. WATER AND POWER**

- 34.1. The Contractor shall make the necessary arrangements for the provision of any water and power. No payment will be made for the provision or use of these services and the cost of these shall be included in the Bid/quoted amount.

### **35. LOCATION OF CAMP**

- 35.1. The Contractor's camp may be erected on the site of the works but must meet the approval of the Engineer, project beneficiaries and landowners.
- 35.2. No persons other than a night watchman may sleep in the camp, without the approval of the local relevant Stakeholder.

### **36. HOUSING OF CONTRACTOR'S EMPLOYEES**

- 36.1. The Contractor shall make his own arrangement for housing, payment and feeding his employees and transporting them to and from the site. However, it may be possible to arrange temporary local accommodation for the Contractor's staff with the participants.
- 36.2. The Contractor is in all respects responsible for the housing and transporting of his employees, and for the arrangement thereof, and no extension of time due to any delays resulting from this, will be granted.

### **37. LABOUR SOURCE & CAPACITY**

- 37.1. The Contractor will be required to satisfy the Department that a sufficient and experienced labor force is employed or that sufficient experienced labour can be acquired to complete the services and produce an acceptable quality of workmanship.

37.2. The contractor is encouraged to source unskilled labour from the project participants or local community. The Contractor and the Departmental representative (Engineer or local Agricultural adviser) may negotiate with the participants in this regard to establish all the conditions for the utilization of the local labour.

37.3. The Contractor will be responsible for all hiring, payment, housing and transport of all labour used for the duration of the contract.

### **38. SECURITY & RISK**

38.1. No one shall be allowed on the construction site after normal working hours except for the necessary security personnel.

38.2. The Contractor shall also be responsible for safeguarding all plants, machinery, equipment and materials on site. The Engineer shall not be responsible for any lost, damaged or stolen property or materials. Should any of these situations arise, no allocations will be made in terms of finances or time.

### **39. MATERIALS: DELIVERY, ON & OFF-LOADING, STORAGE & RESPONSIBILITY**

39.1. The Contractor shall be responsible for the safe delivery, loading, off-loading, handling and storage of any equipment and materials on site.

39.2. All equipment, materials and plant stored on site must be suitably protected against damage or loss by theft or otherwise.

39.3. The Contractor shall remain fully responsible for all material and plant etc. until the completed works are handed over and have been officially accepted by the Department.

### **40. EXISTING ROADS, MUNICIPAL PAVEMENTS, ETC.**

40.1. The Contractor is advised that he will be held responsible for any damage to the existing pavings, roads, municipal pavements, fences, boundary walls, etc., and will have to repair such damage at his expense.

### **41. DAMAGE TO PROPERTY**

41.1. If the Contractor or his/her employees, while engaged in the execution of the contract, shall break, deface, injure, destroy or allow to fall into disrepair any part of the Works or property belonging to the Department, or any private property including: buildings, pavings, roads, fences, walls or grounds contiguous to the premises of the Department on which he or they may be employed, the Contractor will be required to repair, in a perfect and workmanlike manner, at own expense all damage to the approval of the Department. The Completion Certificate will not be issued until the Department is satisfied that all necessary remedial work has been satisfactorily completed

41.2. The Contractor shall take every precaution against damage or nuisance being caused by dust both to the properties of the Department and all surrounding properties and shall indemnify the Department against any claim that might arise there from.

### **42. UNDERGROUND CABLES AND PIPES**

42.1. If such services are discovered, immediate notification must be made to the Department and all work in the vicinity of such cables, pipes, etc., shall cease until safe to proceed.

- 42.2. Should the Contractor damage underground cable or pipes, such damage shall be repaired as soon and safely as possible by the Contractor.
- 42.3. The cost of making good such damage will be met by the Contractor as this must be covered by the Contractors works insurance.

#### **43. DAILY RAINFALL RECORDS**

- 43.1. Submission of rainfall figures is required for the granting of permission of extending the contract period on the basis of inclement weather. If none are kept, the Engineer is under no obligation to grant extension of the completion period for inclement weather.

#### **44. INSPECTION OF WORK**

- 44.1. The Departmental representative may at all reasonable times have access to the site where work is being executed for inspection purposes.
- 44.2. The Engineer may request that evidence of the quality or strength of any materials be supplied by the contractor wherever necessary.

#### **45. NOTICE OF COVERING WORK**

- 45.1. The Contractor shall give due notice to the engineer whenever any work or materials are intended to be covered in with earth or otherwise in order that their correct dimensions and quality may be ascertained before being covered.
- 45.2. If any such work or materials are covered without such notice having been given, the work or materials shall be uncovered at the Contractor's expense on instructions given by the Engineer.

#### **46. SUB-CONTRACTED WORK**

- 46.1. The contractor shall not sub-contract the entire contract. The contractor must indicate in *Annexure C2 – Additional Information: Subcontracted Works* which part(s), if any, (s)he intends to subcontract.
- 46.2. **The sub-contracting of the roof design is mandatory. Also the issuing of an Engineering certificate by an ECSA registered Engineer for the design and construction of the roof is compulsory.** Contractor to submit name of the roof designer and the Engineer to issue the Engineering certificate in Annexure C2.
- 46.3. Sub- contracting shall not relieve the contractor from any liability or obligation under the contract and his/her shall be liable for the acts, defaults and neglects of any sub-contractor, his/her agent or employees as fully as if they were the acts, defaults or neglects of the contractor, his agents or employees.

#### **47. INSURANCE**

- 47.1. All accepted approved contractors would be required to provide the following insurance's for the project awarded to them:
- 47.1.1. Insurance against damage, destruction or loss to 50% of the value of the contract.
- 47.1.2. Public Liability insurance.
- 47.1.3. All risks (works) policy and Political.



47.2. The Contractor shall provide the Engineer with proof that Insurance has been obtained for the contract period.

#### 48. OCCUPATIONAL HEALTH AND SAFETY

48.1. Bidders (including those sub-contractors and/or suppliers who are preparing prices/quotations for submission to the main bidder) must ensure that they make adequate financial provision in their bids for full compliance with the *Occupational Health and Safety Act (85/1993): Construction Regulations, 2014*, as published in the *Government Gazette* of 7 February 2014, or later amendments thereto. Financial provision shall therefore be made by each Bidder for, inter alia, the following:

- Carrying out and documenting risk assessments of all work to be carried out under the contract.
- Preparation of safe work procedures.
- Preparation of an H&S plan, discussing it with the Department, and then amending it as agreed.
- Preparation of a Project H&S File to include all requirements of Annexure A.
- Regular updating of all of the foregoing.
- Provision of medical certificates of employees.
- Provision of PPE and protective clothing for employees
- Complying with all H&S requirements for the duration of the contract.
- Provision of forced ventilation (as required when working in confined spaces).
- The completion and checking of the safety file upon completion of the works and handing it over to the Department

48.2 To enable the Department to appraise the allowances that Bidders have made for H&S in their bids, so that he/she can fulfil his/her obligations in terms of Clause 7 of the Construction Regulations, separate items have been included in the Bill of Quantities for Health and Safety.

48.3 To enable the Department to appraise the allowances that bidders have made for H&S in their bids, so that he/she can fulfil his/her obligations in terms of Clause 7 of the Construction Regulations, separate items have been included in the Bill of Quantities for Health and Safety.

48.4 Failure to submit realistic prices for the scheduled H&S items is likely to prejudice the bid.

48.5 The Principal Contractor and Sub-Contractors must submit proof of compliance with the OHS requirements table below with the construction phase H&S plan where applicable.

*Table 1 – OHS Requirements and submission dates*

PAM Item No.	Requirement	OHS Act Requirement	Submission Date
2.1	Notification of Intention to Commence Construction / Building Work	Complete Schedule 1 (Construction Regulations)	Before commencement on site
2.2	Assignment of Responsible Person to Supervise Construction Work	All relevant appointments, as per OHS Act and Construction Regulations.	Before commencement on site
2.3	Competence of Responsible Persons	Department Requirement & OHS Act	Together with H&S plan



PAM Item No.	Requirement	OHSA Requirement	Submission Date
2.4	Compensation of Occupational Injuries and Diseases Act (COIDA) 130 of 1993	COIDA Requirement	Together with H&S plan
2.5	Health and Safety Organogram	Department Requirement	Together with H&S plan
2.6	Initial Hazard Identification and Risk Assessment based on the Department's assessment	Construction Regulations.	Together with H&S plan
2.7	Medical Certificate of Employees	Construction Regulations	On commencement of construction.

48.6 The successful bidder shall be required to submit the Contractor's Health and Safety Plan as required in terms of Regulation 7 of the Occupational Health and Safety Act 1993 Construction Regulations 2014.

48.7 The Contractor shall pay particular attention to watching and warning lighting and must provide any necessary barriers, etc., required for the protection of the public in terms of the Act.

#### 49. INJURY TO PERSONS

49.1. The Contractor shall be liable for and shall indemnify the department in respect of any liability, loss, claim or proceedings whatsoever, whether arising in Common Law or by Statute in respect of personal injuries to or death of any person whomsoever arising out of or in the course of or caused by the execution of the Works.

#### 50. DISAGREEMENTS

50.1. Notice of disagreement. The Contractor has the right by written notice to the Engineer to require him to consider any disagreement which he raises with the Engineer provided the said written notice shall be given within 14 days after the cause of disagreement has arisen.

50.2. Ruling on disagreements. The Engineer shall give a ruling on the disagreement in writing to the Contractor no later than 14 days after his receipt of a written request from the Contractor requiring him to do so. The Engineer shall provide such a ruling with as little delay as possible. During the response time the Contractor shall not alter the status of the works under contention.

#### 51. FIXED PRICE CONTRACT

51.1. The contract shall **not** be subject to contract price adjustment.

#### 52. PRICING - COMPLETENESS OF BID

52.1. Bidders are required to Bid for all services, products and commissioning as specified in this document and associated plans. This includes those optional items that will be pointed out as required at the bid briefing (e.g. VIP toilet(s), fencing and other). If he/she does not bid on all items, his/her bid will be rejected.

52.2. All bid/quoted prices for *separate* items are to be in South African currency and must **exclude** VAT.

52.3. All items as described in the project specification are to be priced in full.

52.4. Transport/Delivery costs must be included in the pricing if the Pricing Schedule does not list them separately.

52.5. VAT must be filled in as the sub total followed by the complete price for the entire project.

52.6. The Bid price page must be signed by a person legally authorized to do so.

### **53. QUANTITIES OF WORK**

53.1. The Contractor shall receive payment only for the works actually executed and approved by the Engineer.

### **54. PROGRESS PAYMENTS**

54.1. Payment shall only be made for claims that are commensurate with the works actually executed and complete.

54.2. Payment will only be made against the construction progress as pertaining to **built /installed** items. Movable items and materials on site are generally excluded from progress payments until they have been fully installed or fitted or built up.

54.3. If any item or part of an item in an invoice is disputed by the Engineer, the Engineer shall give notice of such with reasons.

54.4. The Engineer may elect to use a payment schedule that apportions a weighting for the various work phases, in those cases where the actual pricing schedule is not available or lacks balance.

54.5. The contractor shall be paid in up to a **maximum of seven** part payments. The Contractor is strongly advised to request **at least five** payments when being notified of him/her being awarded the contract.

54.6. Part payments will be made after the Engineer has approved the work and will be made in accordance with the Retention clause (57).

54.7. The penultimate payment occurs after practical works completion. The final payment will be made after the 12 months liability period when the contractor has dealt with all defects, if any.

### **55. COMPLETION OF THE WORKS**

55.1. Work completion will be established over three stages.

#### **55.1.1. Practical completion**

This is defined as the stage when the works are found to be substantially complete and can be used for the purposes intended. This assessment will be solely made by the Engineer. When the Contractor thinks he has completed the works, an inspection will be made by the Engineer who will draw up a list of patent defects, commonly known as a "snag list", if any. *Patent defects* are defects that are visible or discoverable upon an ordinary and proper inspection.

#### 55.1.2 Works completion

This stage will be reached after the Contractor has, to the sole assessment of the Engineer, fixed all defects listed on the snag list. It is at works completion that the Contractor will be paid out 50% of his/her retention money.

#### 55.1.3 Final completion

Final Completion occurs 12 months after Works completion, after expiry of the liability period.

55.2 Certificates of Completion and Final Approval will be issued by the Engineer for practical and final construction completion.

### 56. RETENTION

56.1. A 10% retention will be withheld on payment for duration of the construction.

56.2. The Department will pay out half of this retention, or 5% of the bid value as part of the second last payment at **practical completion** of the works. The remainder, viz 5%, will be paid out at **final completion** after expiry of the defect liability period 12 months after practical completion), the bidder having eliminated all defects.

56.3. In some instances, the Engineer may decide to shorten this period order to allow all payments to be completed within the financial year. However, this is **not** a given and the Contractor will be notified during the course of the construction if such would be the case.

### 57. DEFECT LIABILITY PERIOD

57.1. The defect liability period is 12 calendar months calculated from the date of Practical Completion.

57.2. The contractor shall unconditionally guarantee all materials, workmanship related to the works for that period. The guarantee shall cover any defects due to inferior materials and/or workmanship of the Contractor, or any of his sub-contractors, fair wear and tear excepted. The Contractor shall repair, remedy or replace any such defects, part or complete works without delay and at his own cost.

### 58. CONTINGENCIES

58.1. An amount of 10% of the subtotal for all materials, equipment and services has been set aside for Contingencies. This allowance will only be accessed for unforeseen additional expenditure not covered in the contract. Payment of the Contingencies allocation is therefore **not** a given, as the occurrence of limited or even absence of any approved Contingencies will reduce the total amount paid out for this contract.

58.2. Approval from the Engineer for the use of the Contingencies allocation is required before any purchases can be made or work is started from this allocation. Any allowance must be in line with SCM Delegations.

### 59. PERIOD OF COMPLETION & RATE OF PROGRESS

59.1. The project has to reach practical completion **within 6 months** calculated from the date of site handover.

59.2. If the Works are delayed by any cause beyond the Contractor's control, the Contractor shall have the right within twenty-one days of any such cause of delay arising, to apply in writing to

the Department to extend the date of completion, stating the cause of delay and period of extension applied for.

59.3. The Department upon receipt of such written application may by order in writing extend such date of completion by a period to be determined, or may refuse to extend such date of completion, or may postpone giving a decision upon such application until completion of the Contract period set out in sub-clause (a) of this clause.

59.4. The date of completion will be extended only to the extent approved by the Department.

59.5. Should the Contractor fail to apply in writing for an extension within the time set out above, or should the Department refuse to grant any extension in writing, then the Contract period provided shall not be exceeded.

59.6. When the Works are completed the Department will give a completion certificate and the date of such certificate shall be the date of commencement of the guarantee period.

## **60. PENALTY CLAUSE / FINES FOR LATE OR NON-COMPLETION**

60.1. If the contractor does not complete the work within the time stipulated and no extenuating circumstances can be given for the delay, the Department may impose a fine as detailed below. The total will be subtracted from the retention allowance.

60.2. If the contractor fails to complete the works and the Department is forced to employ another contractor to complete the works, the defaulting contractor will be held liable for the costs as far they exceed the original total Bid value.

60.3. The department will deduct a penalty for late completion of up to **0.05% of the contract value per working day delay**. This will be deducted from the retention.

## **61. LOCAL PRODUCTION AND CONTENT**

61.1. The Department of Agriculture and Rural Development promotes Local Production and Content. In the case of designated sectors, only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.

61.2. This bid document carries a minimum threshold for local content of 100% for all items that are locally manufactured such as:

- 61.2.1. Wire products (All fencing products including welded mesh fencing)
- 61.2.2. Fabricated structural steel products (Gate-, Corner- and Straining Posts, Line Poles and gates)
- 61.2.3. Roof and Cladding
- 61.2.4. Frames
- 61.2.5. Fasteners
- 61.2.6. Gutter and down-pipes
- 61.2.7. Single base press
- 61.2.8. Wool bins and baskets
- 61.2.9. Steel Tables
- 61.2.10. Sliding doors
- 61.2.11. Roller shutter doors
- 61.2.12. Shears
- 61.2.13. Steel doors and frames
- 61.2.14. Frames

- 61.3. Department of Agriculture and Rural Development reserves the right at its sole discretion to set minimum thresholds for sectors which may not have been declared as designated sectors by the DTI in an effort to stimulate local production and content where relevant.
- 61.4. Bidders are required to assess their product and /or service offering against the designated sector lists as published by the Department of Trade and Industry (the DTI) and to ensure full compliance to the minimum local content threshold, if relevant, before submitting its response to this tender.
- 61.5. The Department of Agriculture and Rural Development latest list of designated sectors can be accessed on [http://www.dti.gov.za/industrial\\_development/ip.jsp](http://www.dti.gov.za/industrial_development/ip.jsp)
- 61.6. Service Provider should ensure that they complete SDB 6.2 of this document. Failure to complete SDB 6.2 shall result in disqualification

**PART E**  
**SPECIFICATIONS**

**A | STANDARD TECHNICAL SPECIFICATIONS**

**1. PRELIMINARIES & GENERAL**

The contractor is to note that all insurances (UIF, workmen compensation, works, public liability etc.); site and equipment safety; site establishment and security; services (water and electricity); testing of materials and any specialist services are for the contractor's responsibility and attention throughout the contract duration until handover of the project. This item also includes Occupational Health & Safety Act requirements. The Department reserves the right to stop progress of the works in case of non-compliance until these conditions are complied with.

**2. APPLICABLE STANDARDS: SPECIFICATIONS & MATERIALS**

2.1. For the purpose of this Contract the relevant SANS specifications shall apply- specifically SABS 1200: *Standardized Specification for Civil Engineering Construction* specifications shall apply. The following sections shall in particular apply here:

- 2.1.1. **SABS 1200 AA - 1986** (General - Small Works),
  - 2.1.1.1. Materials: SABS 1200 AA (3);
  - 2.1.1.2. Testing: SABS 1200 AA (7);
- 2.1.2. **SABS 1200 DA -1988** (Earthworks - Small Works)
- 2.1.3. **SABS 1200GA – 1982** (Concrete - Small Works).
  - 2.1.3.1. Materials SABS 1200 GA (3)
  - 2.1.3.2. Mixing, pouring and curing of concrete: SABS 1200 GA (5.4)
  - 2.1.3.3. Testing: SABS 1200 GA (7)
- 2.1.4. **SANS 50197-1**: Cement: Common cement 42,5N or R to SANS 50197-1
- 2.1.5. **SANS 2001-BS1**: Site Clearance (2008)
- 2.1.6. **SANS 2001-BE1**: Earthworks (general) (2008)
- 2.1.7. **SANS 2001-CC2**: Concrete works (2007)
- 2.1.8. **SANS 2001-CM2**: Strip footings, pad footings & concrete-slab-on-the-ground (2011)
- 2.1.9. **SANS 2001-DP5**: Storm water drains (2010)
- 2.1.10. **CKS 451 – 1976**: Specification for Anti-Intruder Fences (June 1976)
- 2.1.11. **CKS 82**: Spec for Steel posts, stays, standards & droppers for strained wire fences (1975)
- 2.1.12. **SANS 23-4**: Steel wire welded mesh fencing (2003)
- 2.1.13. **SANS 675**: Zinc-coated fencing wire (2009)
- 2.1.14. **SABS 135**: ISO Metric Black Bolts, Screws & Nuts
- 2.1.15. **SANS 684**: Structural Steel Paint
- 2.1.16. **SANS 10322**: Structural Aluminium Paint

**3. APPLICABLE STANDARDS: EARTHWORKS AND SITE PREPARATION**

3.1. Normal regulations regarding safety, municipal by-laws, contamination of water sources, erosion, siltation etc. will still apply.

- 3.1.1. **SABS 1200 AA - 1986** (General - Small Works),
  - 3.1.1.1. Site preparations & establishment: SABS 1200 AA (4).
  - 3.1.1.2. Setting out of works: SABS 1200 AA (5.1.1)

**4. APPLICABLE STANDARDS: STANDARD (ABRIDGED) PREAMBLE FOR ALL TRADES**

4.1. All materials to be SANS approved and installed to applicable standards specified by SANS, NBR, or the manufacturer.

## 5. MATERIALS AND CONSTRUCTION

- 5.1. All materials must be newly purchased and conform to SABS specifications for the products. This includes all items such as bricks, blocks, brick reinforcement, damp proofing, lintels, glazing, plumbing and drainage, curtains, etc... All construction works must conform to the applicable standard specifications and installation requirements as per NBR requirements and manufacturers recommendations. All concrete works to conform to CNCI standards and recommendations

## 6. STANDARD CONCRETE MIXES

- 6.1. Cement and aggregates shall be mixed by volume and the contents of a 50kg sack of cement shall be taken to be 0,033m<sup>3</sup>.
- 6.2. Water addition should be kept to a minimum. Only sufficient water should be used to produce a workable mix of 60-100mm slump. A recommended maximum water : cement ratio is 1 for a 10MPa; 0.8 for a 15MPa; 0.65 for a 20MPa; 0.59 for a 25MPa; 0.53 for a 30MPa mix, however the lower the ratio the better the durability of the concrete. Approximately 210 litres per m<sup>3</sup> of concrete is required for an average quality sand and optimum quantity 19mm stone.
- 6.3. Concrete for non-structural purposes shall be "Prescribed mix concrete" produced in accordance with the requirements indicated in Table 3.

TABLE 3: STANDARD CONCRETE MIXES					
Class of Concrete	Min. Compressive Strength in MPA at 28 Days	Max. Nominal Size of Coarse Aggregate in mm	Proportion of Constituents >> 1 Wheelbarrow = 2 bags of cement <<		
			Cement (Parts)	Sand (Parts)	Stone (Parts)
A	10	37,5	1	4	5
B	15	19,0	1	3	4
C <sup>1</sup>	20	19,0	1	2.5	3.5
D <sup>2</sup>	25	19,0	1	2	3
E	30	19,0	1	2	2½

## 7. STANDARD PLASTER & MORTAR MIXES

- 7.1. The standard plaster mixes are as listed in Table 4:

TABLE 4: STANDARD PLASTER MIXES				
PLASTER CLASS:	MIX RATIO: (By Volume)	MASONRY CEMENT: kg	LIME: L	SAND: (loose and damp) L (max)
Rich mix (fdns, wet areas)	1 : 4	50	0-10	130
General purpose	1 : 5	50	0-40	165

- 7.2. The standard mortar mixes are as listed in Table 5:

TABLE 5: STANDARD MORTAR MIXES				
MORTAR CLASS	MIX RATIO: (By Volume)	MASONRY CEMENT: kg	LIME: L	SAND: (loose and damp) L (max)
I	1 : 4	50	0-10	130
II	1 : 6	50	0-40	200
This project	1 : 5	50	0-25	165

## 8. FINISHES TO IN-SITU CONCRETE

**8.1. Class U1 Ordinary Finish**

Immediately after placing, the concrete shall be finished rough by screeding with the edge of a wooden board of straight and true line and working between guides set accurately to level. No mortar shall be added and noticeable surface irregularities caused by the displacement of coarse aggregate shall be made good by re-screeding after removing or tamping down the offending aggregate.

**8.2. Class U2 Wood Float Finish *(this is required for the apron around the building)***

The concrete surface shall first be brought to the standard Class U1 ordinary finish and then floated with a wood float. Floating shall be started as soon as the screed finish is stiffened sufficiently and bleed water has evaporated or been removed and it shall be the minimum necessary to produce a surface free from screed marks and uniform in texture.

**8.3. Class U3 Coarse Brush Surface Finish**

The concrete surface shall first be brought to a Class U1 ordinary finish. A coarse brush finish is then applied with a coarse bristle brush. "Brushing" shall be started soon after screeding to produce a uniform patterned coarse surface finish with a rough surface texture in the direction of the desired drainage direction.

**8.4. Class U4 Steel Float Finish *(this is required for the shed floor inside)***

The concrete surface shall first be brought to the standard Class U1 ordinary finish and then floated with a steel power float. Floating shall be started as soon as the screeded finish is stiffened sufficiently and bleed water has evaporated or been removed and it shall be the minimum necessary to produce a surface free from screed marks and uniform in texture.



## B | SCOPE OF WORKS

### 1. SUMMARY

Construction of a shearing shed with sheep dipping tank, perimeter fencing, handling facilities, and toilet facilities.

#### 1.1. Shearing Shed

- 1.1.1. Building 20m x 9m shearing shed;
- 1.1.2. Structure built with Burnt Clay Bricks, plastered and painted;
- 1.1.3. 0.6mm IBR type Chromadek sheeting
- 1.1.4. Timber trusses, accompanied by design certificate.  
*The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Institute for Timber Construction. See PPS R1.4*
- 1.1.5. Industrial roll-up door;
- 1.1.6. Seamless aluminium gutters.

#### 1.2. Outdoor Handling Facilities

- 1.2.1. Vermin (Hexagonal mesh) proof fencing for handling facilities;
- 1.2.2. All posts and poles to be CCA treated timber.

#### 1.3. Sheep Dip Tank

- 1.3.1. Wall built of burnt clay bricks, floor of concrete;
- 1.3.2. Water proofing of dip.

#### 1.4. Toilet facilities

- 1.4.1. Built of burnt clay bricks;
- 1.4.2. 0.6mm corrugated sheeting for roof Chromadek.

#### 1.5. Perimeter Fencing

- 1.5.1. 2.3m high security fencing (weld mesh)
- 1.5.2. One single leave farm gate of 3.6m wide;
- 1.5.3. Poles and standards to be steel.

#### 1.6. Construction of a storm water cut off drain

**C | PROJECT PARTICULAR SPECIFICATIONS (PPS)****EARTHWORKS (EW)**

PPS EW1	SITE CLEARANCE
<ol style="list-style-type: none"> <li>1. Applicable standard: SANS 2001 - Construction Works Part BS1: Site Clearance. SANS 2001 standard specifications are deemed to satisfy the provisions of SANS 10400 (The application of the National Building Regulations).</li> <li>2. Areas to be cleared and grubbed. Both borrow areas and the portions of the site on which excavations are to be carried out and the shed constructed, shall be cleared or grubbed, or both, the Contractor shall excavate the top 150mm of topsoil including all of the smaller vegetation (grass and shrubs, bushes) and stockpile it. The contractor shall not commence with clearing and grubbing until the Employer's Agent has designated, in writing and in detail, the exact areas to be stripped of topsoil and the time at which the work to be started.</li> <li>3. Dimensions of area to be cleared: 40m x 25m.</li> <li>4. Cutting of trees. The contractor shall take the necessary precautions to prevent injury to persons and animals and damage to structures and other private and public property. Where necessary, trees shall be cut in sections from the top downwards.</li> <li>5. Branches overhanging boundaries. The branches of trees to be left standing shall be so trimmed as not to encroach upon the space (of height at least 7m) vertically above any carriageway, railway formation, or other designated area.</li> <li>6. Preservation of trees. No tree shall be cut down until the engineer has given written authorization for such work to commence.</li> <li>7. Clearing. Clearing shall consist of: <ul style="list-style-type: none"> <li>• The removal of all trees, rubbish, fences, and all other material that may interfere with the construction of the work.</li> <li>• The disposal of all material resulting from clearing.</li> <li>• The removal of rocks and boulders of size up to 0.15m<sup>3</sup> that are lying on the surface to be cleared or exposed during the clearing operations.</li> <li>• Where fences have to be taken down, sorting, coiling, and stacking of the material.</li> <li>• The removal and stacking of other reusable materials as scheduled.</li> </ul> <p>The moving of a certain amount soil or gravel may be inherent in or unavoidable during the process of clearing. No extra payment will be made for the removal such soil or gravel.</p> </li> <li>8. Grubbing. All stumps and roots larger than 75mm in diameter shall be removed to a depth of at least 600mm below the finished level and at least 100mm below the original ground level. Where the area has to be compacted, all stumps and roots including matted roots shall be removed to a depth of at least 200mm below the cleared surface. Except in borrow areas, cavities resulting from grubbing shall be backfilled with approved material and compacted to a density at least equal to that of the surrounding ground.</li> <li>9. Re-clearing of vegetation. If during the contract period vegetation should again grow on any portion of the site, borrow areas, or the areas that have been cleared in accordance with the specification, the Employer's Agent may, if considers it necessary, order that such area be re-cleared. Such re-clearing shall include the removal and disposal of grass, shrubs, and other vegetation, as in the first clearing operation.</li> </ol>	

10. Conservation of topsoil. The terms of Sub-clause 5.2.2 of SANS 1200DA: 1988 shall apply.

**PPS EW2****MEASUREMENT AND PAYMENT: SITE CLEARANCE****2.1 | Basic principles**

1. The items scheduled for clearance will be classified according to the nature of the materials involved and the methods of their disposal.
2. Only those areas designated to be cleared will be measured for payment.
3. The removal of topsoil from the specified area will be measured as excavation and no payment will be made for it under clearing and grubbing.

**PPS 2.2 Scheduled items**

Clear and grub.....m<sup>2</sup>

The area designated by the Engineer and cleared and grubbed will be measured to the nearest 0.1m<sup>2</sup>. The rate shall cover the cost of removing boulders of size up to 0.15m<sup>3</sup>, grubbing of trees and tree stumps, cutting of trunks and branches exceeding 0.5m in girth into transportable lengths, backfilling of cavities, removing, transporting, and disposing of material thus cleared, grubbed and cut. Boulders over 0.15m<sup>3</sup> will be dealt with as excavation in terms of the items scheduled for bulk excavations. The rate is for the shed, handling facilities, dip tank and toilet.

Remove and grub large trees and tree stumps of girth:

Over 1m and up to and including 2m.....No.  
 Over 2m and up to and including 3m.....No.  
 Over 3m, in steps of 1m.....No.

The girth of a tree or stump will be measured at the narrowest point of the tree or stump in the first meter of its length above the ground level. Trees and stumps of girth exceeding 1m will be measured individually and classified according to the size in increments of 1m as indicated above.

The unit of measuring the site clearance will be in number as indicated.

The rate shall cover the cost of clearing and grubbing trees and stumps of all sizes, cutting branches, backfilling holes, and removing, transporting, and disposing of all such trees, stumps, and branches and associated material.

**PPS EW3****MEASUREMENT AND PAYMENT: EXCAVATION****3.1 | Basic principles**

1. The basic principle for measurement and payment for all earthworks is that the rates tendered for excavation shall cover the cost of excavating and re-use of the material in backfilling and required slopes for the floor and furrow, and the cost of disposal of surplus and unsuitable material within the free haul distance of 500m.
2. Separate additional payment will be made for filling excess excavation, forming banks or terraces, disposing of surplus material, or any other contingent work, only where specifically prescribed and scheduled.

3. Excavations which are required to be backfilled will be measured as if taken out with vertical sides regardless of whether they have been taken out with sloping sides. They will be measured from the net plan of the finished concrete footing except that, in the case of conical or other such structures, the volume will be measured from the finished outline of the concrete as shown on the drawings.
4. Where extra excavation for outside formwork or working space is specified or ordered prior to the start of bulk excavation for a structure, such excavation will be measured as part of the bulk excavation.
5. The permissible degree of accuracy for all excavations shall be of accuracy III (Table 6).

<b>Table 6: Permissible Deviations (PD) for Excavations – Degree of Accuracy Class III</b>		
Position on plan   PD in plan of any point measured from the nearest grid line.		± 50mm
Dimensions on plan   PD from the design dimensions		± 75mm
Footing level   PD in level of surface of excavation trimmed to receive concrete.		± 75mm
Level   PD from designated level with reference to the nearest transferred bench mark of any floor slab		± 20mm

6. After the topsoil has been removed, excavation shall be carried out first to any general levels to which the ground has to be reduced and after that to the depths indicated on the drawings or to such greater depths as may be ordered or approved to ensure satisfactory foundation levels.
7. The excavated surfaces shall be trimmed to function as the formwork for the floor slabs and the column foundations to the dimensions as indicated on the drawing.
8. Immediately before any permanent construction is commenced, the bottom of each excavation shall be cleaned of all loose material and soft material shall be rammed to the level as indicated on the drawings.
9. Should the Contractor excavate to dimensions in excess of those stipulated or permitted, he shall fill in the excess at his own expense in the manner specified or approved by the Engineer.
10. Topsoil shall be stockpiled temporarily and returned to be spread over the surrounding site.
11. The Contractor properly deals with and disposes of water to ensure that the works are kept sufficiently dry for their proper execution. His responsibility will be held to include the provision of adequate protection against flooding and damage by storm water, flow from springs, and seepage, and to include provision for the repair, at his expense, any of the damage to the works that may arise as a result of the inadequacy of the protection provided by him. Except where the use of tremies has been approved (the placement of concrete below the water level by means of a pipe the bottom end of which is immersed in the fresh concrete), foundation and floor excavations shall be kept free from water at all times until they have been inspected and approved and the concrete have been cast.

### 3.2 | Computation of quantities

1. Earthworks will be measured by volume once only, in excavation.
2. Measurements will be to finished shapes, sections and profiles as shown on the drawings or ordered, and no excavation outside the specified lines and levels will be included in the measurements unless such extra work has been done on the written instructions of the Engineer.
3. The volumes of material handled will be computed from plan dimensions and the total depth excavations. Volumes removed incidentally will be disregarded in excavation quantities but the

volumes (computed from areas and depths) moved in excavation of stated depth of topsoil will be added to the scheduled "Remove topsoil" volume.

### PPS EW 3.3 Scheduled items

Remove Topsoil and stockpile.....m<sup>3</sup>

The rate shall cover the cost of removing the topsoil to a depth of 150mm, together with such vegetation and small roots occur within the specified depth, and of stockpiling it on designated sites. The rate is for the shed, handling facilities, diptank and toilet.

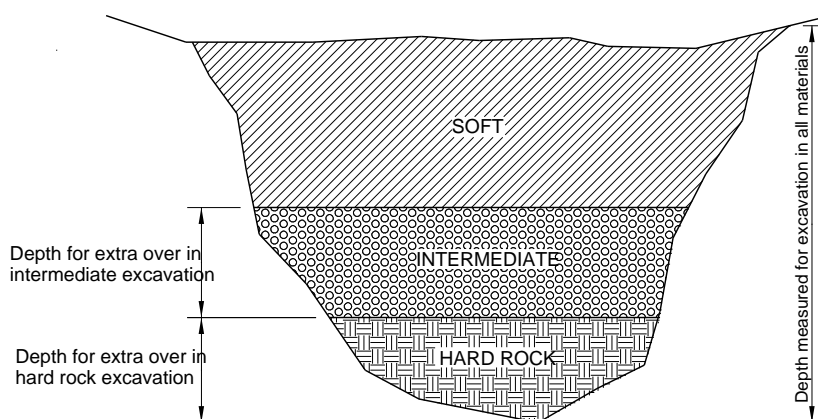
Excavate in all materials (including site levelling) and use for floor slope preparation and backfill and dispose of excess as ordered..... m<sup>3</sup>

Separate items will be scheduled for each type of excavation and for each type or manner of disposal of excavated material. The rate shall cover the cost of excavation, basic selection, loading, transportation within the free haul distance of 500m, offloading, spreading or backfilling, watering, compacting, final grading, complying with the requirements for tolerances, and disposal of soil, all in accordance with the requirements given on the drawings.

#### Extra over for

> Intermediate excavation..... m<sup>3</sup>  
 > Hard rock excavation..... m<sup>3</sup>  
 > Boulder excavation, Class A..... m<sup>3</sup>  
 > Boulder excavation, Class B..... m<sup>3</sup>

The rate shall cover the additional cost of the operations enumerated in "Excavate in all materials and use for floor slope preparation and backfill and dispose of excess as ordered" above for any portion of the excavation that is classified as intermediate, hard rock, boulder class A or boulder Class B, as applicable (Figure 1).



*Figure 1: Classes of Excavation: Measurement and Payment*

The unit of measuring the excavation will be in cubic meter when completed.

The rate tendered shall cover the cost for all excavations, handling and transporting of all materials, as specified on the drawings to include labour and hiring of plant.

<b>PPS EW4</b>	<b>SUBGRADE FILLING AND COMPACTION</b>
----------------	--

**PPS EW4.1 | Methods & standards**

1. Filling under solid floor and over site is to be excavated with approved dry earth, free from clay and spread evenly in layers not more than 200mm thick, well compacted. The top 150mm will be imported G5 graded aggregate.
2. The subgrade shall be compacted to **95% MOD AASHTO** density. A minimum of six positions shall be pointed out by the Engineer. The first passed test shall be paid from the provisional sum in the bill of quantities. Should the test fail, the contractor shall be liable for the re-compaction and the subsequent tests of the re-compacted materials until it meet the required compaction strength.
3. When in the opinion of the Engineer, the density of the ground under surface is not suitable, the surface shall be scarified to a depth of 150mm with a mechanical ripper or other approved equipment, watered and re-compacted

**PPS EW4.2 Scheduled items**

**Filling and compaction** ..... m<sup>3</sup>

Filling and compaction shall be measured in cubic meter. The rate shall cover importing of material where required, watering, compacting, ripping where needed, and supplying of labour.

<b>PPS EW5</b>	<b>SAND FILLING AND BEDDING</b>
----------------	---------------------------------

1. Dip tank bedding to be 100mm of compacted crusher run. Behind wall filling should be clean river sand, thoroughly compacted at an interval layering of 150mm depth and approved by the engineer's representative.

<b>PPS EW6</b>	<b>MEASUREMENT AND PAYMENT: SAND FILLING AND BEDDING</b>
----------------	--

**PPS EW6.1 Methods & standards**

Bedding of dip tank shall be done with washed river sand, which is clean of any stones, clay and any organic material. Sand shall be placed according to specification PPS D1.

**PPS EW 6.2 Scheduled items**

**Sand filling and bedding** .....m<sup>3</sup>

Filling shall be measured in cubic meter. The rate shall cover importing of material where required, washing, placing and compacting and supplying of labour.

## CONCRETE, FORM WORK AND REINFORCEMENT

### PPS C1

### GENERAL

Precast concrete shall comply with the relevant requirements of PPS C1.1 - C1.17.

### PPS C2

### MATERIALS

#### PPS C2.1 CEMENT (only 32.5N or 42.5N Portland Cement may be used)

1. Cementitious binders shall be common cements that comply with SANS 50197-1.
2. Bags shall be clearly marked with the cement type. Bulk content delivery notes shall comply with SANS 50197-1.
3. Cement shall be stored in weatherproof conditions and in such a manner that the oldest cement is used first and, where stored in bulk, the cement drawn for use is measured by mass and not by volume.

Note 1: Cement shall be as far as is practicable, be stored in a dry, weather-proof, enclosed shed or building with a dry floor. Where it is necessary to store cement in the open, bags should be stacked on a wooden platform set on supports so that it is at least 100mm above the ground and covered with tarpaulin or plastic sheeting in a manner which ensures that the water runs off without wetting the bags.

Note 2: Bags should be stacked to a height that does not exceed 12 bags and arranged so that consignments can be used in the order of delivery. Cement which is stored in bags can lose about 30% of its potential strength after about four to six weeks, hence the need to rotate stacks in the order of first in, first out. If "old" cement is used, the mix should be richer (i.e. have a higher cement content). Cement which has lumps in it which cannot be easily crumbled to powder with the fingers should not be used.

#### PPS C2.2 AGGREGATES

1. SAND (FINE AGGREGATE):  
The fine aggregate shall comply with the requirements of SABS Specification 1083. Other aggregates may be approved if they have a satisfactory history and/or test results.  
*Aggregate for concrete shall be stored separately to prevent contamination.*
2. STONE (COARSE AGGREGATE):  
The coarse aggregate shall comply with the requirements of SABS Specification 1083. The coarse aggregate shall have a nominal size of 13mm or 19mm as specified in the scope of work.  
*Aggregate for concrete shall be stored separately to prevent contamination.*

#### PPS C2.3 CONCRETE

1. The strength given in the below shall be the minimum required at 28 days, unless otherwise specified.
2. Maximum concrete slumps acceptable for different types of construction concrete are as



3. follows:
  - (a) Vibrated reinforced concrete = 50 mm
  - (b) Unvibrated reinforced concrete = 75 mm
  - (c) Mass concrete = 75 mm
4. When so required by the Engineer, and whilst concreting is in progress, the consistency of the mixture shall be ascertained by means of the slump test as later described herein.

**PPS C3**

**STRENGTH CONCRETE**

1. The Contractor shall be responsible for the design of strength concrete and for the measurement of the constituent materials to produce concrete that complies with the specified requirements.
2. The relevant Engineer will decide the class and grade designation of the concrete required for each part of the work and determines suitable limitations on the constituent materials and mix proportions in accordance with the said requirements.
  - (a) Trial mixes:  
The Contractor must ensure that samples of the constituent materials of the concrete, together with evidence that they comply with the provisions, are supplied for approval in good time and provide the Engineer with—
    - i) a statement from an approved independent laboratory of the results of tests, or
    - ii) an authoritative and acceptable report, or record of the previous use of, and experience with, the material concerned.
3. The cement, types of aggregate and their origins may not be changed throughout the duration of the contract without giving prior notification to the Engineer who shall verify that the above requirements are complied with and that the important qualities of the concrete will not be impaired.
  - (b) Durability:  
For each grade of concrete, the Engineer will, notwithstanding strength considerations, specify the cement/water ratio appropriate to the exposure conditions indicated in Table 5, SABS Specification 1200G, Sub clause 5.5.1.5.
  - (c) Consistency:  
Unless otherwise indicated by the general workability of the concrete, method of transportation, conditions of placement or otherwise specified by the Engineer, the suggested slump values, for different mixes of concrete shall be as specified in Clause 3.4.
  - (d) Workability:  
Ensure that the concrete is of such workability that it can be readily compacted into the corners of the formwork and around reinforcement without segregation of the materials and without excessive "bleeding" of free water at the surface.

**PPS C4**

**SLUMP TEST**

1. The apparatus and the method of determination of the slump of freshly mixed concrete shall comply with SABS STM 862.
  - (a) Apparatus:
    - (i) A mould in the form of a frustum of a cone and having the following nominal internal dimensions: Bottom diameter: 200 mm



Top diameter: 100 mm

Height: 300 mm

The mould shall be of a metal (other than brass or aluminium) of side thickness at least 1,6 mm and shall have a smooth internal surface. The mould shall have suitable base plate and handles to facilitate lifting it from the test specimen in a vertical direction.

- (ii) The tamping bar shall have a nominal diameter of 16 mm, a length of 600 mm and with sharp corner rounded off at one end.

(b) Procedure:

The test shall be carried out in an area that is free from vibration and shocks. Ensure that the internal surfaces of the mould are free from set concrete and are clean and dry. Place the mould with the bottom on a smooth, horizontal, rigid, non-absorbent surface and hold the mold firmly in place while it is being filled as follows:

(i) Fill the mould in four layers, each thickness approximately one-quarter of the height of the mould. Tamp each layer with 25 strokes uniformly spaced over the cross-section of the mould. Tamp the bottom layer throughout its depth and ensure that when tamping the second and subsequent layers the strokes penetrate into the underlying layer.

(ii) After the top layer has been tamped, strike off the concrete level so that the mould is exactly filled. Clean off any concrete that may have leaked out between the mould and the supporting baseplate surface. Remove the mould from the concrete immediately by slowly and carefully raising it in a vertical direction. This will allow the concrete to subside.

2. Immediately measure the slump, to the nearest 5 mm, by determining the difference between the height of the mould and the height of the specimen. If a slump specimen collapses or shears off laterally regard the test as invalid, discard the result and repeat the test.

**PPS C5**

**CONCRETE QUALITY**

1. Should the engineer dispute concrete quality, the contractor shall at his own cost, prove to the satisfaction of the Engineer that the estimated actual strength of cores taken from the structure (by an approved independent testing laboratory and determined in accordance with SABS STM 865) is not less than the specified strength. If the concrete fails to meet the strength criteria stipulated, the Engineer may at his sole discretion and in addition to the options listed in SABS Specification 1200G-

- (a) accept the concrete subject to approved remedial measures being undertaken by the Contractor at his own cost; or
- (b) permit the concrete to remain, subject to reduced payment for lower strength concrete.

**PPS C6**

**CONCRETING**

1. It is essential that the foreman who has charge of the construction of all concrete work, whether reinforced or not, shall be skilled in this class of work, and shall personally superintend the whole construction, paying special regard to—
- (a) the quality, testing and mixing of the materials.
  - (b) the laying of the material in place and the thorough compaction of the concrete to ensure solidity and freedom from voids;
  - (c) the construction and removal of formwork; and
  - (d) the sizes and positions of the reinforcement.

2. Particular care shall be taken to work concrete against formwork and around reinforcement. Internal vibrators may be used with the approval of the Engineer but external vibrators which act only on the formwork will not be permitted.
3. Concrete to be reinforced shall be deposited in such quantities as will permit of it being properly compacted around the reinforcement.
4. The placing of concrete shall be completed within half-an-hour after mixing or within half-an-hour after agitating and within 2,5 hours after mixing in the case of ready mixed concrete. On no account shall concrete be incorporated into the work after it has attained its initial set.
5. Care shall be taken to prevent, as far as possible, the formation of laitance or scum. Laitance is to be understood to mean the scum of strength-less and inert material which forms on the surface of concrete.
6. Concrete must not be dropped into position from a height greater than 2,5 m unless prior approval is obtained from the Engineer.
7. If an inclined chute is used for transporting concrete, it shall be of such slope as will ensure a continuous flow of concrete without the use of an excessive quantity of water and without segregation of the aggregates. The chute must be flushed out and properly cleaned before and after each working period. All waste from flushing shall be discharged outside the formwork.
8. In beams, each portion of a successive layer shall be placed as soon as the concrete below has been properly worked around rods and against formwork. Concreting shall be carried forward in irregular steps, that is to say, one layer shall not be completed over the whole section before the succeeding layer is commenced. Concreting of slabs and beams shall, as far as possible, be carried forward in one operation. When concreting has to be interrupted the concrete shall be left with a level, rough top surface with ends vertical. The concrete shall not be merely sloped down.
9. On resuming concreting, the old surface shall be roughened and all laitance thoroughly and carefully removed before any new concrete is deposited. This must be carried out by brushing the surface of the concrete while it is still green. Great care must be taken to avoid any weakness at the junction of old and new concrete, and the old surface shall be coated with a thin layer of cement and sand mortar, in the same proportions as that of the adjoining concrete.
10. While the concrete is setting it shall not be disturbed or shaken by traffic, either on the concrete itself or upon adjoining formwork.
11. No holes in concrete elements shall be patched or filled in without inspection, instruction and approval of the Engineer.
12. No concreting shall be carried out when the air temperature is below 4 °C when it is rising and 8°C when it is falling.
13. Before concreting is commenced the Contractor shall give the Engineer 24 hours' notice of his intention to do so. On sites further than 200 km from the Engineer, 48 hours' notice must be given.
14. Concrete surface beds, excluding heavy industrial floors etc. shall be Class C concrete and shall be laid in suitable size panels not exceeding 20 m<sup>2</sup> in area and with the length of any panel not exceeding 4,5 m.

15. Where concrete beams are supported on concrete columns, the columns are to be concreted up to the underside of such concrete beams and then concreted up to the top of the beams, integral with the beams.
16. Any finish applied to the surface of concrete floors, is to be understood as being additional to the thickness of the concrete described or shown on the drawings.

<b>PPS C7</b>	<b>CURING OF CONCRETE</b>
---------------	---------------------------

1. After the concrete has been placed, all exposed surfaces shall be kept continuously damp for at least 10 days by methods as may be approved by the Engineer, such as covering with approved building paper, or by means of wet canvas, wet sacks, wet sand, by continuous hosing or ponding with water.

<b>PPS C8</b>	<b>BUILDING ON CONCRETE FOOTINGS AND BEAMS</b>
---------------	--

1. No brickwork, stone walling or other structure shall be built on concrete footings until at least three days after placement of the concrete in the case of mass concrete footings and after seven days in the case of reinforced concrete footings or as may otherwise be directed by the Engineer.
2. No brickwork, stone walling or other structure shall be built on reinforced concrete beams or similar members until the formwork and all props or supports have been removed.

<b>PPS C9</b>	<b>SLIP JOINTS BETWEEN CONCRETE AND BRICKWORK</b>
---------------	---

1. Slip joints shall be provided between brickwork and concrete slabs and beams by levelling up and troweling smooth the bearing surfaces of brickwork with 3:1 cement mortar and covering the bearings before the concrete is cast, with two layers of one side smooth tempered hardboard, with the smooth sides in contact.
2. The ends and sides of beams and edges of concrete slabs shall be separated from the brickwork with 13 mm thick bitumen impregnated softboard or expanded polyethylene strips placed vertically against the brickwork before the concrete is cast.
3. Similar slip joints shall be provided between brickwork and concrete lintels cast in situ, but without soft board or expanded polyethylene strips at ends.

<b>PPS C10</b>	<b>MOVEMENT JOINTS</b>
----------------	------------------------

1. All movement joints are to be filled in with approved bitumen impregnated softboard or expanded polyethylene strip unless otherwise specified or detailed on drawings. Form similar movement joints where pathways adjoin buildings externally. Descriptions (prices) of movement joints shall be deemed to include formwork.

<b>PPS C11</b>	<b>PRE-STRESSED CONCRETE LINTELS</b>
----------------	--------------------------------------

1. The concrete lintels must comply with the requirements of SANS 1504: 1990.
2. The lintels should always be bedded on mortar.

3. Brickforce to be used between **all** courses of brickwork above lintels longer than 2.50m.
4. Lintels to be laid with the **hollow** side up, and never upside down, with the height always being 70/75mm .
5. Longer lengths should always be supported in at least 3 places and should be transported and stored on their side until used to prevent cracking or breaking.
6. The installation guidelines for pre-stressed concrete lintels are as per Table 6 below. For required sizes and number of lintels required for this project, see Section MS 1.10.

*Table 7: Installation guidelines for concrete lintels*

LINTEL LENGTH (M) >	< 1.5m	1.5 - 2.5m	> 2.5m
Bearing on each side, minimum*	150mm	250mm	350mm
Brick courses above lintel, minimum	4	4	5
Support/props every x metres	1.0m	1.5m	1.5m
Days support required*	7	7	7

\*(Ref: NHBRC Part 3, Sec 3 Feb 1999 Rev No.1)

## PPS C12

## FORMWORK

1. Formwork shall include all shuttering, casing and centering of weaved material required for the laying and forming of concrete floors, slabs, beams, lintels, walls, steps, columns, piers, pilasters and any other concrete work requiring moulds or forms and shall embrace all cleats, battens, fillets, wedges, struts, trestles, braces, props, shores and other requirements of weaved material for keeping all in correct position. All materials used for formwork must be suitable and substantial and all joints must be tight enough to prevent leakage of liquid matrix.
2. All formwork must be designed by the Contractor and if requested to do so, he must submit fully detailed and dimensioned working drawings to the Engineer for checking purposes.
3. Acceptance of the proposals shall not relieve the Contractor of his responsibility for the safety and stability thereof nor for any loss or damage arising out of defective design, materials and/or workmanship.
4. The formwork must be so constructed that its partial removal can be carried out to the satisfaction of the Engineer and in such stages as are required by the working conditions. As far as possible, wedges and clamps must be used in preference to nails. All formwork in its various sections for floors, beams, etc. must be so arranged that the whole may be raised or lowered either independently or together with other sections by means of wedges or other approved methods.
5. Immediately before concreting is begun, the formwork in contact with the concrete must be thoroughly cleaned, wetted and kept damp whilst the concrete is being placed. Great care must be taken to keep the formwork wedged up to its correct height and this must be checked by taking levels immediately before concreting is commenced and immediately after it has been completed.
6. All beams shall have a camber of 6 mm to every 3 m of length.
7. The minimum periods that the formwork to the various parts of the structure is to remain in position after concreting shall be 7 days. When determining the stripping time for formwork the

weather shall be considered to be "normal" when the temperature is above 18 °C and "cold" when the temperature is between 5° and 10 °C, these being the average daily temperatures of the atmosphere adjacent to the concrete. When the average daily temperature lies between the above values for "normal" and "cold" weather the minimum period for stripping of formwork shall be determined by the Engineer.

8. Notwithstanding the above minimum periods, formwork may be struck immediately the concrete in the various parts of the structure has attained the crushing strengths required by the Engineer. The crushing strengths must be determined by proper tests, which shall be carried out by the Contractor.
9. No formwork of any nature whoever shall be struck, either after the elapse of the minimum periods stated in the above table or on the attainment of the required crushing strengths of the concrete, without the prior consent of the Engineer. Such consent will not absolve the Contractor of his responsibility for the safety of the structure.
10. In structures having either in whole or in part, two or more reinforced concrete floors, props shall be provided under the soffits of any beam or slab of any floor which is being used to support the formwork and wet concrete of the floor above, all to the approval of the Engineer. The props shall not be removed until the formwork supporting the concrete of the floor above has been struck.
11. On no account shall steel formwork be oiled where concrete is to receive plaster.
12. Formwork is measured to the net surfaces of concrete to be supported, except at intersections of beams with beams, columns, walls, etc. and tops of columns with slabs, beams, etc. where no deductions have been made and descriptions (prices) shall be deemed to include use and waste, except where the formwork is of a permanent nature or is to be left in, fitting together to all required shapes, all cutting, intersections, cambering where required, holes for rods, bolts, pipes and the like, propping, maintaining, keeping damp whilst the concrete is being deposited and removing. Formwork "left in" and permanent formwork shall be deemed to include leaving in formwork, props, etc.
13. Descriptions (prices) of formwork to soffits shall be deemed to include propping not exceeding 3,5 m high unless otherwise described. Descriptions (prices) of formwork to walls and columns shall be deemed to be not exceeding 3,5 m high above bearing level unless otherwise described. Descriptions (prices) of formwork to soffits of solid slabs shall be deemed to be to slabs not exceeding 250 mm thick unless otherwise described.

**PPS C13****SMOOTH FORMWORK**

1. Smooth formwork shall be any material approved by the Engineer which is to be used to leave concrete surfaces smooth when removed and where no other finish is to be applied.
2. Descriptions (prices) shall be deemed to include for rubbing off all projections at seams etc. after removal of the formwork, making good any defects with 2:1 cement mortar and leaving a smooth surface with all arises slightly rounded, all to the satisfaction of the Engineer.

**PPS C14****REINFORCING RODS**

1. Mild steel shall comply with the requirements of SABS Specification 920, Type A or B.
2. High tensile steel shall comply with the requirements of SABS Specification 920, Type C or D.

3. Pre manufactured reinforcing sheet mesh shall comply with the relevant SABS codes, and shall be of the reference code as specified in the drawings.

<b>PPS C15</b>	<b>CONCRETE REINFORCEMENT</b>
----------------	-------------------------------

1. Rod reinforcement: Bending and hooking of rods shall be done in accordance with SABS Specification 82. Rods shall be bent cold in an effective bending machine, or properly designed rod-bender using a steady pressure and not by hammering.
2. Diameters, lengths and positions of rods as shown on the drawings must be strictly adhered to. Joints in rods in beams, stairs, etc. will be permitted only where shown on drawings.
3. Before being placed in position, the rods shall be thoroughly cleaned of all grease, dirt, bituminous material, scale and loose rust.
4. All distribution rods shall be straight and shall extend at least 150 mm into beams or other support.
5. Unless otherwise shown on the drawings, all joints in reinforcing rods shall be lapped 40 times the diameter of the rod. The laps shall be securely tied with 1,25 mm diameter annealed mild steel binding wire.
6. Reinforcement for piles, column footings, columns and walls shall be tied at every intersection, or as directed or shown on drawings, with similar binding wire.
7. Reinforcement in beams shall be tied at alternate intersections in a diamond pattern, unless circumstances demand every intersection.
8. Great care must be taken to retain the reinforcement in its correct position during the entire period of concreting. Blocks of fine concrete, size approximately 40 x 40 mm, or plastic spacers, shall be provided on the formwork to soffits of beams to ensure that the rods are retained in position and then the correct concrete covering to the main reinforcing rods is provided. The blocks shall be of thickness required and shall be placed under the main reinforcing rods at approximately 600 mm centres.
9. Reinforcement in the top of slabs and the like shall be retained in position by means of cradles (stools), formed of steel reinforcing rod as follows:
  - > R10 for height range 100-300 mm and maximum width of 300 mm.
  - > R12 for height range 310-500 mm and maximum width of 450 mm.
10. Recommended spacing of supports for horizontal bars in slabs:
  - > Not further than 600 mm apart (cradles  $\pm 1000$  mm c/c in both directions) for bar diameters up to 12 mm.
  - > Not further than 1 000 mm apart (cradles  $\pm 1 500$  mm c/c in both directions) for bar diameters of 16 mm and over.
11. Stools are to be placed on the bottom layer of reinforcement, securely retained in position and with correct concrete cover as specified. Cradles are to be securely wired to the slab reinforcement with binding wire. Beam rods in different layers shall be separated by means of steel spacer bars of suitable diameters and lengths.
12. Double mats in concrete walls shall be kept in their respective positions by means of suitable steel clips. Recommended spacing of supports for vertical bars in walls:
  - 1 000 mm centres in both directions for bars up to 12 mm diameter,



- 1 500 mm centres in both directions for bars of 16 mm diameter and over.  
Supports can be spaced more closely by the design Engineer, depending upon the circumstances.

- All stirrups shall be properly fastened to the rods so as to retain their relative positions during the entire period of concreting.
- Welding of main rods will not be permitted unless approval has been given by the Engineer. Spot welding in lieu of wiring may be used to secure rods and stirrups in position.
- The concrete covering the main reinforcement, unless otherwise specified, shall not be less 50mm.
- Depending on the condition of exposure and fire resistance requirements, concrete cover can be varied by the design engineer but in no case shall the concrete cover be less than the diameter of the rod to be covered.
- The cover shall be measured from the face of the concrete to the outside of main reinforcement nearest the face of the concrete, and shall exclude plaster and similar finishing materials.
- Three samples of each diameter of reinforcing rods, each approximately 600 mm long, must be taken from each consignment of rods of similar diameter, for testing.
- If any sample is found unsatisfactory, the whole consignment of rods from which the samples were taken will be rejected.
- Top reinforcement in cantilever slabs to be kept in position with a first row of stools or chairs 300 mm from the beam or support, and thereafter at a maximum of 40 bar diameters under each bar.
- The cover blocks, spacers, bars and stools or chairs are to be placed and/or wired in position by the steel fixer.
- Welded steel fabric shall comply with the relevant requirements of SABS 1024.
- Steel shall be stacked off the ground as to prevent distortion, and shall be protected from aggressive environments and contamination. R8 @ 200mm by 200mm ref. no. 395.

**PPS C16**

**DAMP-PROOF MEMBRANE**

- The damp-proof membrane under floor shall, unless otherwise specified, be of polyethylene sheeting complying with SABS Specification 952 0,375 mm thick (375 microns) and manufactured in widths of 1000 mm and greater, all laid in the widest practical widths to minimise joints, turned up and dressed to load bearing walls and, if applicable, lapped with the damp-proof course in the walls. All joints shall be sealed with pressure sensitive tape applied over the leading edge of the joint. NB: All cutting of plastic membranes shall be carried out using sharp instruments.

**PPS C17**

**MEASUREMENT AND PAYMENT**

Item	Unit
<b>PPS C17.1 Mass concrete foundations (20MPa) .....</b>	<b>m<sup>3</sup></b>

The unit of measurement shall be in cubic meter. The tender rate shall include full compensation for the design of concrete mixes, testing of concrete and materials, supply, delivery, handling and storage of all materials, mixing, placement, shaping, floating, curing, and striking, of all components.

**PPS C17.2 Mass concrete floors, apron and ramp (25MPa) ..... m<sup>3</sup>**

The unit of measurement shall be in cubic meter. The tender rate shall include full compensation for the design of concrete mixes, testing of concrete and materials, supply, delivery, handling and storage of all materials, mixing, placement, shaping, floating, curing, and striking, of all components.

**PPS C17.3 Pre-stressed concrete lintels .....Number**

The unit of measurement shall be in number of various sizes as specified in drawings and bill of quantities. The tender rate shall cover the full cost of supply, delivery storage and placing of lintels according to drawings and specifications.

**PPS C17.4 Reinforced concrete slab (25MPa) ..... m<sup>3</sup>**

The unit of measurement shall be in cubic meter. The tender rate shall include full compensation for the design of concrete mixes, testing of concrete and materials, supply, delivery, handling and storage of all materials, mixing, placement, working and packing around reinforcement, shaping, floating, curing, and striking, of all components.

**PPS C17.5 Steel reinforcement ..... Sum**

The unit of measurement will be a total sum. The tender rate shall include the supply, delivery and storage of all material. The rate shall include cutting, bending, waste, binding, and binding materials, and placing of all reinforcing elements as specified in drawings and specifications.

**PPS C17.6 Damp proof membrane - floors.....m<sup>2</sup>**

The unit of measurement will be in square meter. The tender rate shall include the supply, delivery and storage of all material. The rate shall include cutting, placing of all damp proof sheeting, sealing of joints and compensation for wastage as specified in drawings and specifications.

**PPS C17.7 Damp proof sheeting – walls..... m**

The unit of measurement will be in running meter to the specified width. The tender rate shall include the supply, delivery and storage of all material. The rate shall include cutting, placing of all damp proof sheeting, sealing of joints and compensation for wastage as specified in drawings and specifications.

**PPS C17.8 Welded Mesh .....m<sup>2</sup>**

The type will be stated. The unit rate for welded mesh shall cover the supply and cutting, placing of mesh and all cost of all wasted due to laps

## MASONRY WORKS (MS)

### PPS MS1

### BRICK AND BLOCK WORK

#### PPS MS1.1

#### CEMENT

Cement shall be as described in PPS C1.1.



<b>PPS MS1.2</b>	<b>SAND</b>
------------------	-------------

Sand shall comply with the requirements of SABS Specification 1090, unless specialist advice is obtained. A sample of 25 kg must be delivered to the Departmental Laboratory for testing purposes.

<b>PPS MS1.3</b>	<b>BURNT CLAY BRICKS</b>
------------------	--------------------------

1. Burnt clay bricks shall comply with the requirements of SABS Specification 227, and shall be equal in all respects to the selected samples. Clay bricks for foundations shall be of the NFX-14MPa type extra hard burnt, or 14 MPa cement bricks. Bricks above foundation level to be of the NFP (plaster) type.
2. Where bricks with holes are used, the holes in such bricks must only be filled in solid with mortar where specifically specified.
3. All bricks that do not carry the SABS-mark, must be approved by the Departmental or sent to an approved laboratory at the cost of the contractor.

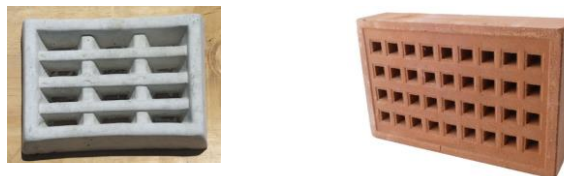
<b>PPS MS1.4</b>	<b>CEMENT MORTAR</b>
------------------	----------------------

1. Cement mortar shall be composed of 5 parts (by volume) of sand and 1 part (by volume) of cement. The material shall be mixed dry until of uniform colour and then water added and the mixture turned over until the ingredients are thoroughly incorporated. Cement mortar shall be produced in such quantities as can be used before commencing to set as no cement mortar that has once commenced to set shall be used in any way.
2. Care shall be taken in mixing cement mortar to remove from the mixing machine or platform any old mortar that has already set as such mortar may not be incorporated into a new batch.

<b>PPS MS1.5</b>	<b>VENTILATION BRICKS</b>
------------------	---------------------------

1. Standard **concrete or clay (no plastic)** vermin proof ventilation airbricks shall be used and must comply with relevant SANS specifications. Dimensions: 215mm x 140/150 x 30/40mmmm. Fourteen are required and installed as per Drawing 2 (SHP/RDN/2020/027) and Drawing 3 (SHP/RDN/2020/028).

*Figure 2. Examples of ventilation bricks*



<b>PPS MS1.6</b>	<b>BRICKWORK</b>
------------------	------------------

1. Brickwork, wherever practicable, shall be built in English bond (figure 3A). This may be alternated with a Flemish bond. No false headers (bricks cut in half in a header course) shall be used and none but whole bricks employed, except where legitimately required to form bond.

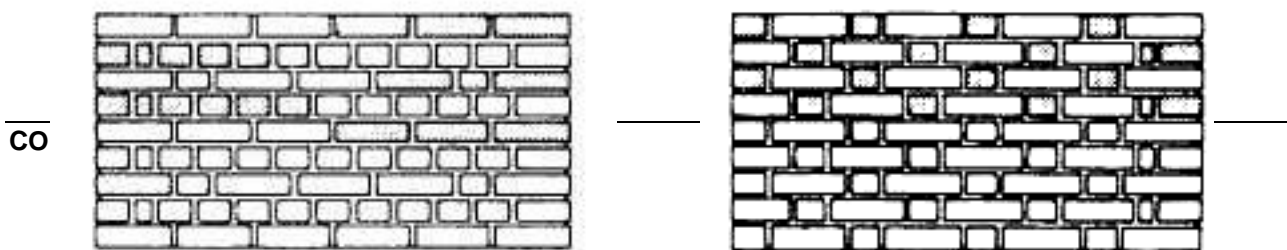


Figure 3A : The two bonds that can be used, with the English bond, alternating all header courses with all stretcher ones, to be the default one.

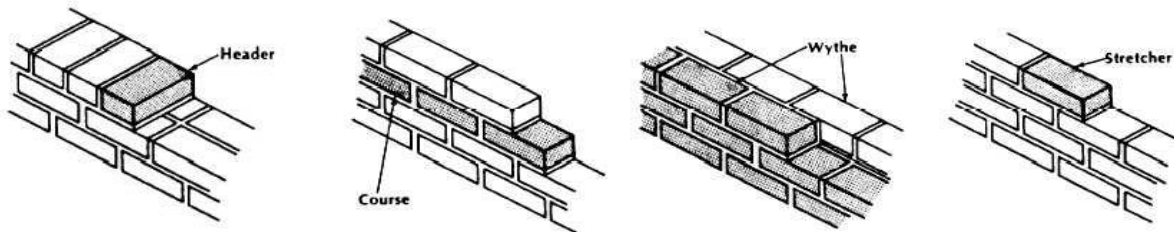
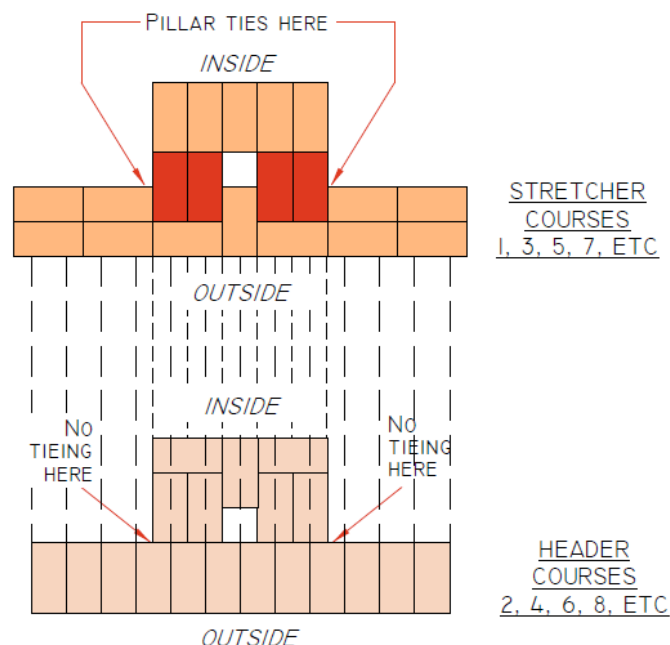


Figure 3B : Visual representation of some key masonry terms.

2. Brickwork shall be built level and plumb with mortar as specified. The bricks shall be laid on a solid bed of mortar and all joints thoroughly grouted up solid throughout the whole width of each course. The brickwork shall be carried up in a uniform manner, no one portion being raised more than 1,2 m above another at any one time.
3. Clay bricks shall be well saturated with water, in the stack or dump, approximately 2 hours before being used. The tops of walls left unfinished shall be well wetted before work recommences. NB: Cement or concrete bricks shall not be wetted.
4. All rough and fair cutting, cutting of splays, skewbacks, chamfers, etc. shall be properly performed. Form or leave all necessary openings for pipes etc. and make good after pipes etc. are fixed in position.
5. Tying of the interior part of the brick pillar bricks to the main exterior wall will be every second course, See Figure 4 and Section C of Drawing 7 – SHE/RDN/2020/032.



*Figure 4: Tying of the pillar bricks to the exterior wall.*

<b>PPS MS1.7</b>	<b>BUILDING IN</b>
------------------	--------------------

1. Ends of timbers, holdfasts, cramps, gratings, air bricks, dowels, etc. shall be built-in in cement mortar.
2. Door and window frames, lift door frames and the like shall be set up in position for building in and securely strutted to prevent distortion whilst the brickwork, lintels, etc. are being built.
3. Pressed steel door frames and lift door frames shall be grouted in solid at back with cement mortar as the work proceeds.
4. Wood slips, fixing bricks, hoop iron roof ties, etc. shall be built in as the work proceeds.

<b>PPS MS1.8</b>	<b>BRICK REINFORCING</b>
------------------	--------------------------

1. Brick work reinforcement ("brickforce") is to of approved SA manufactured welded high-tensile steel wire reinforcing fabric of 150mm x 2.8mm, (100mm x 2.8mm for M150 blockwork) cut to length and lapped full width at corners and passing.
2. The rate shall include the installation of brickforce in the rate of brick and block work:
  - At **every** brick course the first 3 courses above a lintel;
  - At **every second** course above the lintel from course 4 upwards;
  - At **every second** course in the foundation wall;
  - At **every third** course in the exterior wall between the foundation and the lintel.
  - At **every third** course of blockwork.

<b>PPS MS1.9</b>	<b>BEARING PLATES ON WALLS</b>
------------------	--------------------------------

1. Bearing plates shall be bedded in mortar similar to that used in masonry work, and shall be set level.

<b>PPS MS1.10</b>	<b>LINTELS</b>
-------------------	----------------

1. The dimensions of the lintels to be used for this project are as per Table 8. For general specifications see Section PPS C11.

<i>Table 8: Type and number of required pre-stressed concrete lintels for this project.</i>					
	Location	Number of lintels	Size (mm)	Length (m)	Bearing
1	Roller doors	2 x 3	140 x 70/75	2.70m/3.00m	300mm/450mm
2	SS33 windows	10 x 2	105 x 70/75	1.50m	250mm
3	Pedestrian doors	4 x 2	105 x 70/75	1.20m	200mm
4	Sliding gates for sheep	2 x 2	105 x 70/75	0.90m	225mm

**PPS MS2****DAMP-PROOF COURSE**

1. The horizontal and vertical damp-proof course shall be of black polyethylene sheeting complying with SABS Specification 952 Type B having embossed surfaces, 0,38 mm thick (375 microns) and manufactured in widths of less than 1000 mm.
2. The damp-proof course shall be the full thickness of walls above foundations, plus the width of floor plates where these occur, and shall be laid without longitudinal joints. At end joints, angles and intermediate junctions the sheeting shall be lapped for 150 mm.
3. Where so required all laps in the damp-proof course shall be sealed over the whole area of laps as recommended by the Manufacturer. Care shall be taken not to tear or otherwise damage the sheeting. Similar damp-proof course, 120 mm wide x 250 mm long, shall be laid on sleeper piers under the floor bearers.
4. Similar damp-proof course, but in unbroken lengths, shall be laid behind all window sills, sealed with an approved bituminous solution to the back of the sills and taken down within the thickness of the wall and under the first full course of external brickwork.

**PPS MS3 PLASTERING**

1. Cement plaster for 1 coat work on brickwork shall be composed of 4 parts of sand to 1 part of cement for internal work and 5 parts of sand to 1 part of cement for external work, all measured by volume, and mixed as described for cement mortar.
2. Plaster on walls shall be not less than 12 mm or more than 20 mm in thickness and plaster on concrete ceilings and beams shall not be less than 9 mm or more than 16 mm in thickness.
3. Walls shall be well wetted before plastering is commenced.
4. The surfaces of plastered walls internally shall be steel troweled to a smooth, even and true finish. All external plaster shall be finished to a true and even surface with a wood float. All plaster surfaces shall be free from blemish.
5. Plaster shall be returned into reveals and soffits of openings and all angles shall be true and straight with salient angles slightly rounded.
6. The rendering coat of plaster in two coat work shall be approved by the Engineer before the setting coat is applied and notice shall be given to the Engineer when the plaster is ready for inspection.
7. All cracks, blisters and other defects shall be cut out, made good and the whole left perfect at completion.

**PPS MS4****MEASUREMENT AND PAYMENT**

Item	Unit
<b>PPS MS4.1 Foundation walls (Brick work)</b> .....	m <sup>2</sup>
The unit of measurement shall be in square meter in cement mortar as described, including brickforce work. The tender rate shall include full compensation for the supply of labour, bricks, placing, cutting, wastage, reinforcing, bracing and protection of work during construction.	
<b>PPS MS4.2 Outer and inner walls (Burnt Clay Bricks)</b> .....	m <sup>2</sup>

The unit of measurement shall be in square meter in cement mortar as described, including brick force work. The tender rate shall include full compensation for the supply of labour, bricks, placing, cutting wastage, reinforcing, bracing and protection of work during construction.

**PPS MS4.3 Internal walls (M150 cement blocks) .....m<sup>2</sup>**

The unit of measurement shall be in square meter in cement mortar as described, including brick force work. The tender rate shall include full compensation for the supply of labour, bricks, placing, cutting wastage, reinforcing, bracing and protection of work during construction.

**PPS MS4.4 Ventilation bricks.....No.**

The unit of measurement shall be in number in cement mortar as described, including brick force work. The tender rate shall include full compensation for the supply of labour, materials, placing, reinforcing, bracing and protection of work during construction.

**PPS MS4.5 Plaster work.....m<sup>2</sup>**

The unit of measurement shall be in square meter for all plaster work. The tender rate shall include full compensation for the supply of labour, materials, placing, and wastage, finishing, and clearing of wastage.

**PPS MS4.6 Formwork (smooth finish)..... m<sup>2</sup>**

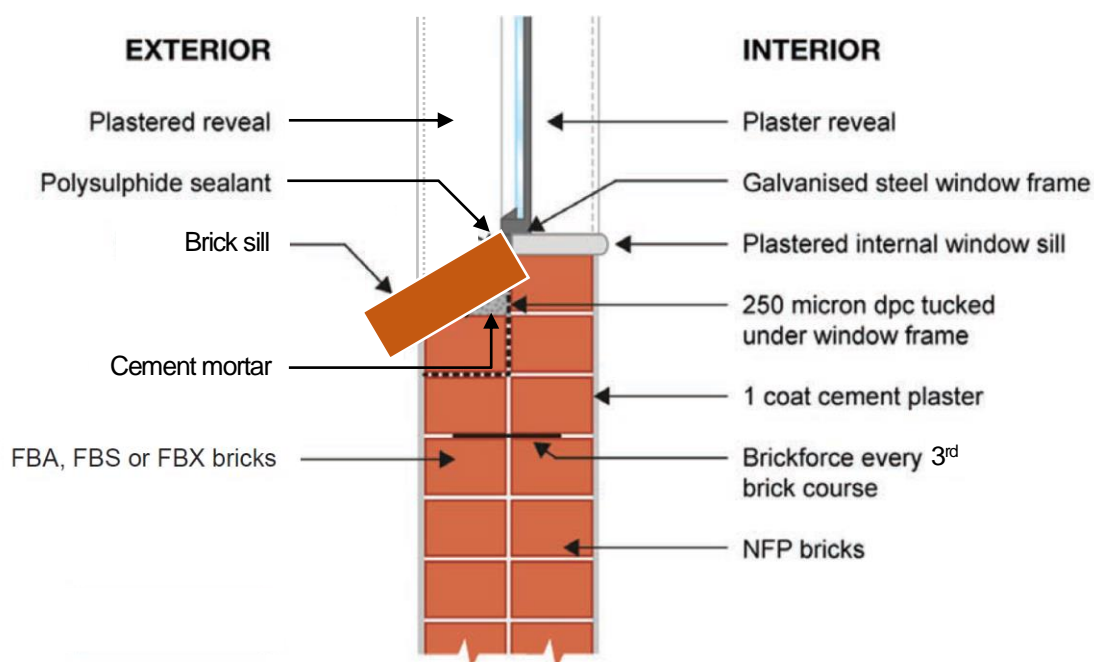
The surfaces to be so formed will be identified in the schedule. The rate shall cover the cost of all parts of formwork in contact with the concrete, and the necessary bearers, struts and other supports, plus the labour and plant necessary to erect and strike such formwork.

## WINDOWS / DOORS / FITTINGS (F)

### PPS F1

### STEEL WINDOWS

1. Steel windows shall be in accordance with SABS 727 and additions.
2. Suitable weather bars shall be provided to bottom of opening in and vertically pivot hung ventilators and also to the bottom of all opening out ventilators where they occur above other ventilators and elsewhere as may be required to render the opening sections watertight.



*Figure 5: Cross section of exterior double brick wall with window sill.*

3. Windows and components, shall, before leaving the Manufacturer's works, be cleaned by acid pickling, rinsing and drying, all as laid down in SABS Code of Practice 064, or by other approved means, to remove all scale, rust, grease, oil and foreign matter and then primed with red oxide zinc chromate primer complying with the requirements of SABS Specification 909, applied by dipping or by means of a spray gun.
4. All windows shall be of type SS33 burglarized, as specified in Drawing 8.
5. Windows shall be fitted with solid, heavy duty brass handles, stays, catches and other fittings having a polished finish and those to all other windows tumbled finish. The fittings shall be fixed in such a way as to be removable after windows have been glazed. After the windows have been built in, but before being glazed, they shall be overhauled, adjusted as necessary and left in good order.
6. Panes to be floated glass of a thickness of **4mm**.
7. All windows to have exterior sills made of face brick. 250 micron DPC to be placed under the window frame and sill as per the Drawing of Figure 5.
8. Glass in panes not exceeding 0,65 m<sup>2</sup> of surface area shall be clear floated glass of "GG" quality (Glazing quality) and of 4 mm thickness.
9. The glazing and fixing of glass in buildings shall be carried out in strict accordance with SABS Code of Practice 0137.

**PPS F2**

**PRESSED STEEL DOOR FRAMES**

1. Pressed steel door frames shall be of an approved South African manufacturer, constituting of mild steel cold-rolled sheet 1,63mm thick for single and double rebated frames. Rebate sizes suitable for standard 42mm thick timber doors.
2. Members to be accurately bent to profile, and corners mitred and welded and reinforced. 1.63mm thick adjustable 228mm long corrugated lugs with end split and bent for building in are to be supplied with every frame, three at each side.
3. The frames must be grease, scale and rust free, and painted with one coat of zinc-chromate primer, in the factory.

**PPS F3**

**HARD WOOD DOORS**

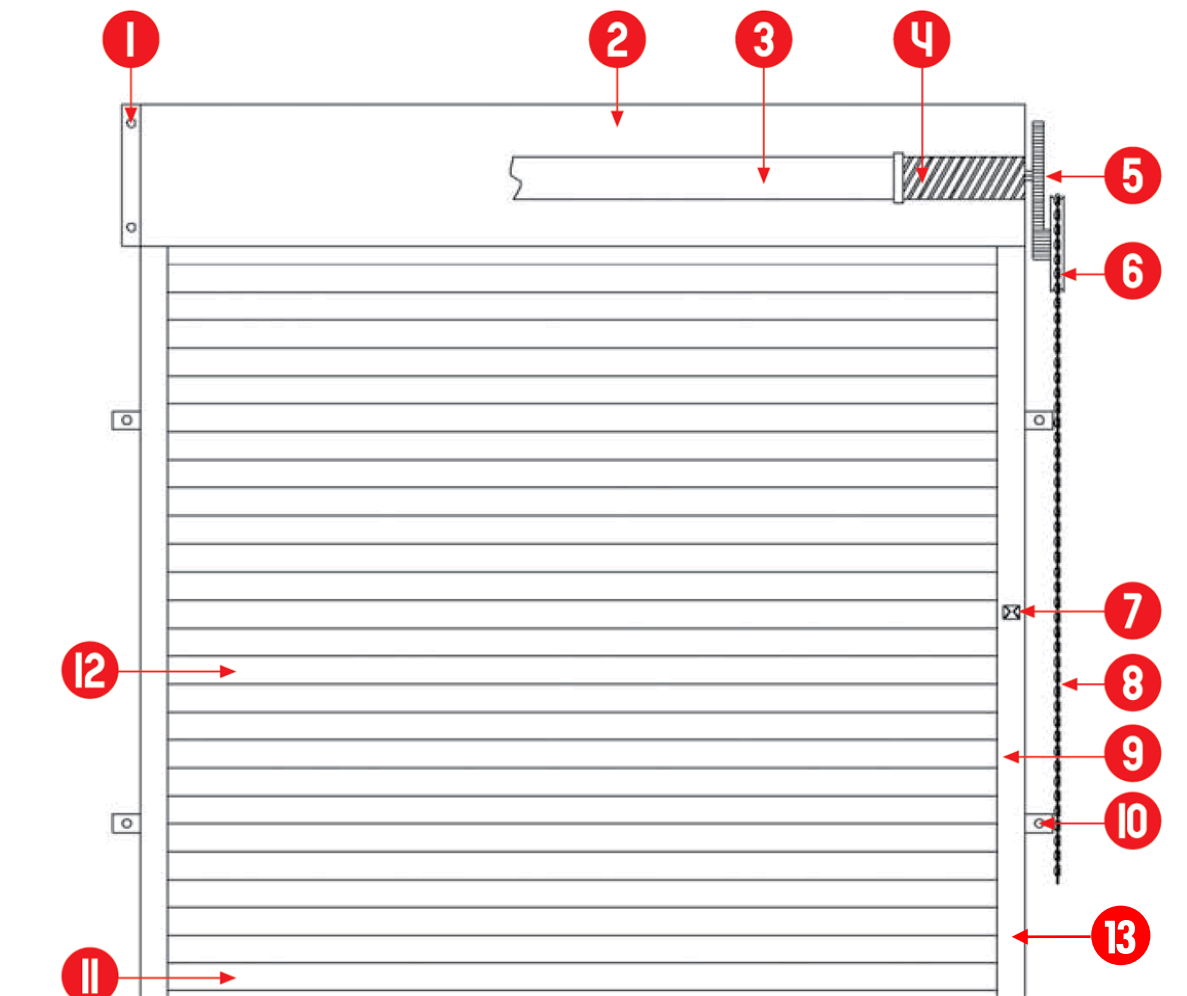
1. Panelled Meranti doors (813 x 2032 x 42mm thick) will be of a solid timber construction. Two doors will be (split) stable doors consisting of a bottom and upper part, each individually hinged and lockable. Doors to be fitted with a SABS approved locking mechanism, pre-approved by the engineer. No two locks will have inter-changeable keys, and all are to have duplicate keys.



## PPS F4

## STEEL ROLLER SHUTTER DOOR

1. Two **heavy duty steel roller doors** for the opening of 2100 x 2300mm to be fitted flat against surface of opening and consist of curtain, vertical guides and overhead mechanism. The Roller shutter door shall be of Serranda Grande or equal approved manufacturer, constructed of galvanized steel components.
2. **Curtain** to be clear galvanized steel or chromadek, 20 or 21 gauge (0.8-0.7mm) thick, made of hard Grade E steel and with deep ribbed corrugation (item 12 on diagram of Figure 6).
3. Flexible PVC wear strips to be attached to the curtain to reduce friction and ensure a quiet and smooth operation. Alternatively polypropylene or malleable iron end locks to be fitted on every alternate slat on either side of the Roller Shutter Curtain.
4. Canopy cover for the curtain to be at least 1.0mm thick.
5. **Curtain Guides** to be constructed of formed 12 gauge (min) galvanized steel.
6. **Bottom Rail (T-Bar) Assembly** (11). The bottom edge of the curtain to be reinforced with a double steel angle to form an inverted T-section to be riveted to or welded unto the bottom slat. T-bars to be constructed of aluminum extrusion reinforced by 2" x 1-1/2" galvanized steel angle, and to have a replaceable vinyl or rubber strip weather seal. Slide bolts (for Padlocks) to be installed on either side of the T-Bar.



*Fig 6: Diagram showing the minimum list of features the roller shutter door must be equipped with.*

<b>PPS F5</b>	<b>PURPOSE MADE GUILLOTINE GATES</b>
---------------	--------------------------------------

1. The animal entrance sliding doors to be manufactured as specified on Drawing 7 – SHE/RDN/2020/032 A & B, and fitted flush to inside of wall. They are to be free of rust, and coated with two coats of zinc-chromate primer. The mechanism is to operate smoothly, and should be delivered well lubricated at handover.

<b>PPS F6</b>	<b>WATER TANK, TANK BASE AND PIPING</b>
---------------	---

1. The SABS approved 5000-5300 liter polythene water tank shall be manufactured from LLDPE, UV stabilized raw materials, and comply with F&DA regulation 177.1520 for food contact application, and carry a minimum five (5) year manufacturer's guarantee. The tank must be supplied with at least a 40mm inlet connector at the top, a 40mm outlet connector at the bottom, and a 450mm lid. The tank must be connected to roof gutters, securely mounted on the stand.
2. The tank base shall be constructed as per specifications on the drawing. All specifications applicable under concrete work, and masonry work will apply.
3. All water installations must be neat and watertight without any leakages and be tested. The stand must be constructed to the specification on the plan (plan 4 of 5) to a height of at least 0.6m high (including the concrete slab). The water tank must be securely tied down and mounted on the stand and must have a 25mm tap.

<b>PPS F7</b>	<b>MEASUREMENT AND PAYMENT</b>
---------------	--------------------------------

Item	Unit
<b>PPS F7.1      Windows .....</b>	<b>No.</b>
The unit of measuring the windows will be in number, measured as fitted and glazed. The tendered rate will be in full compensation for material and transport fitment, glazing and labour.	
<b>PPS F7.2      Steel &amp; hardwood door frames.....</b>	<b>No.</b>
The unit of measuring the door frames will be in number, measured as fitted. The tendered rate will be in full compensation for material and transport fitment, and labour.	



<b>PPS F7.3</b>	<b>Hardwood doors/Pine ledged &amp; braced batten doors.....</b>	<b>No.</b>
The unit of measuring the doors will be in number, measured as fitted. The tendered rate will be in full compensation for material and transport fitment, and labour, including fittings and locking mechanisms.		
<b>PPS F7.4</b>	<b>Purpose made guillotine gates.....</b>	<b>No.</b>
The unit of measuring the gates will be in number, measured as fitted. The tendered rate will be in full compensation for material and transport fitment, and labour, including fittings and locking mechanisms.		
<b>PPS F7.5</b>	<b>Industrial Heavy duty roll-up door.....</b>	<b>No.</b>
The unit of measuring the doors will be in number, measured as fitted. The tendered rate will be in full compensation for material and transport fitment, and labour, including fittings and locking mechanisms.		
<b>PPS F7.6</b>	<b>5000-liter water tank and fittings.....</b>	<b>No.</b>
The unit of measuring the tank will be in number, measured as fitted. The tendered rate will be in full compensation for material and transport fitment, and labour, including fittings and plumbing work.		
<b>PPS F7.7</b>	<b>Water tank base .....</b>	<b>No.</b>
The unit of measuring the tank base will be in number, measured constructed. The tendered rate will be in full compensation for material and transport construction, and labour according to drawings and specifications.		

## PAINTING (P)

<b>PPS P1</b>	<b>PAINTING - GENERAL</b>
<ol style="list-style-type: none"> <li>1. All surfaces to be painted will be filled in where necessary with an appropriate filler, brushed down, sanded and washed where necessary to ensure clean, dust, stain and oil free surfaces. All surfaces to be sufficiently dry, and inspected by the engineer before painting may commence.</li> <li>2. Where special brands of paint are to be used, the manufacturer's prescriptions regarding priming, cleaning and applying will be followed. Where ever possible paint to be used must be from South African manufacturer.</li> <li>3. All colours and tints and type of paint used, are to be selected and/or approved by the engineer, before painting commence.</li> <li>4. The Contractor shall provide all necessary dust sheets, covers, etc. and shall exercise all necessary care to prevent marking surfaces, walls, floors, glass, electrical fittings, etc. and shall keep all parts of the works perfectly clean and free at all times from spotting, accumulation of rubbish, debris or dirt arising from the operations. Any surface disfigured or otherwise damaged shall be completely renovated or replaced as necessary by the Contractor at his own expense to the Engineer's approval.</li> </ol>	
<b>PPS P2</b>	<b>ON PLASTERED WALLS</b>
<ol style="list-style-type: none"> <li>1. Plastered wall, after prepared to the satisfaction of the engineer, must first be painted with one coat of plaster primer (bonding liquid), and one coat of universal undercoat in accordance with SABS 681, and two finishing coats of Plascon Wall and All with Teflon, or similar approved paint. The same procedure to be followed both on internal and external walls.</li> </ol>	

<b>PPS P3</b>	<b>ON METAL SURFACES</b>
---------------	--------------------------

1. Windows & Door frames: prepare as described, tough up where necessary with one coat of red oxide steel primer, one coat of universal undercoat in accordance to SABS 681, and two finishing coats of Plascon Polyurethane enamel or similar approved paint.
2. Purpose-made Guillotine Gates: prepare as described and paint with two coats of red oxide steel primer.

<b>PPS P4</b>	<b>ON WOODEN SURFACES</b>
---------------	---------------------------

1. Prepare as previously described and apply with three coats of Dulux clear exterior Light Oak varnish (first coat 25% diluted, second coat 10% diluted), or similar approved product.

<b>PPS P5</b>	<b>APPLICABLE SABS CODES</b>
---------------	------------------------------

1. The following SABS codes apply in terms of painting and varnishing:
  - (i) High gloss enamel paint: SABS Specification 630.
  - (ii) Oil gloss: SABS Specification 631.
  - (iii) Flat and eggshell: SABS Specification 515.
  - (iv) Emulsion paint (interior): SABS Specification 633, Grade I.
  - (v) Emulsion paint (exterior): SABS Specification 634 Synthetic Polymer Base Type, but pure aery lie resin base for fibre cement surfaces.
  - (vi) Aluminium paint: SABS Specification 682, Grade II.
  - (vii) Roof paint: Alkaline type SABS Specification 683, Type B.
  - (viii) Structural steel paint: SABS Specification 684, Type B.
  - (ix) Textured wall coatings, emulsion base, for interior and exterior use: SABS Specification 1227.

<b>PPS P6</b>	<b>MEASUREMENT AND PAYMENT</b>
---------------	--------------------------------

Item	Unit
<b>PPS P6.1 Walls: Plaster primer</b> .....m <sup>2</sup> The unit of measurement shall be in square meter of paint on plastered surfaces for both internal and external walls. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS P6.2 Walls: Universal undercoat</b> .....m <sup>2</sup> The unit of measurement shall be in square meter of paint on plastered surfaces for both internal and external walls. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS P6.3 Walls: 2 finishing coats</b> .....m <sup>2</sup> The unit of measurement shall be in square meter of paint on plastered surfaces for both internal and external walls. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS P6.4 Windows and door frames</b> .....No.	

The unit of measurement shall be in number of windows and door metal frames for all paintwork as described under PPS P3. The tendered rate shall include full compensation for all materials, transport and labour as per specification.

**PPS P6.5 Doors .....No.**

The unit of measurement shall be in number of doors for all paintwork as described under PPS P4. The tendered rate shall include full compensation for all materials, transport and labour as per specification.

**PPS P6.6 Purpose made guillotine gates.....No.**

The unit of measurement shall be in number of gates for all paintwork as described under PPS P3. The tendered rate shall include full compensation for all materials, transport and labour as per specification.

## ROOFING (R)

### PPS R1 PRE-FABRICATED ROOF TRUSSES- DESIGN & SPECIFICATIONS

1. Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described, to the designs shown on the Manufacturer's detail drawings.
2. The timber shall be of cross-sectional dimensions (Drawing 6 – SHE/RDN/2020/031), cut to correct lengths with ends square or at the required angle. Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a **hydraulic press** capable of exerting such pressure as will ensure complete penetration of the teeth into the timber. The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.
3. In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.
4. Approval of pre-fabricated roofing systems shall be subject to the following requirements:
  - (a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Institute for Timber Construction.
  - (b) A drawing, size A3 having a minimum thickness, shall be submitted by the Contractor to the engineer at an early stage for approval.
  - (c) The drawings shall be signed by a Registered Professional Engineer.
5. The following minimum information shall be shown on the drawings:
  - (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.
  - (b) Bracing as recommended by the Institute for Timber Construction.
  - (c) Sizes and grading of the timber components.
  - (d) Truss sizes, e.g. height of ridge or angle of pitch.
  - (e) Plate sizes for every connection point. (Code numbers only are deemed insufficient.)

- (f) Separate connection details for hip, valley and jack rafters.
  - (g) Maximum spacing for purlins to be as described in the specification in this document.
  - (h) The type of roof covering as well as the design load.
6. Over and above the supervision undertaken by the Engineer, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:
- "The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction."*
7. **Descriptions (prices) of pre-fabricated roof trusses shall be deemed to include design.**
8. All timber that will be used in the roof structure must be SA pine, grade 5 preservative treated according to the standards of SANS 05. The grade stresses must comply with SANS 1783-2.

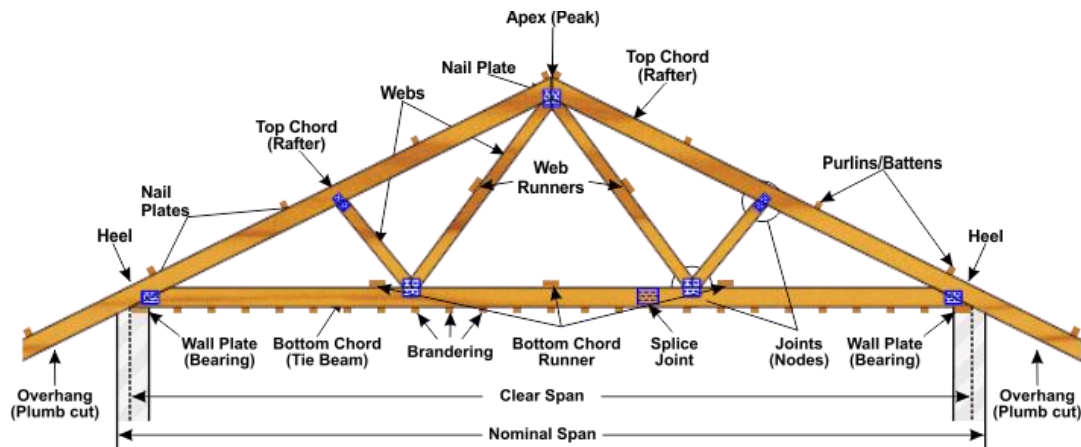


Figure 7: Typical truss showing structural elements as they will feature in the sheep shearing shed design. Please note that the brandering will only be required for the office/store room.

## PPS R2

## ROOF FIXING/ ANCHORING

1. The fixing of the roof trusses onto the walls should be done as per the SANS 10400 K regulations, in particular Section 4.2 11 (Roof Fixing).
2. Roof trusses shall be fixed at each support to walls. The shearing shed roof has a pitch of 20 degrees and should be anchored onto the walls with Type B anchoring, viz. with 30 x 1.2mm galvanized straps, that are embedded into the wall 600mm (8 courses) "deep" (=below the wall plates) as per figure below. The depth of embedment in mortar of these hoop-iron straps in bed joints shall be not less than 70 mm. Straps to be wrapped over the truss and fixed with four galvanised nails, 40 mm long. See Figure 8.

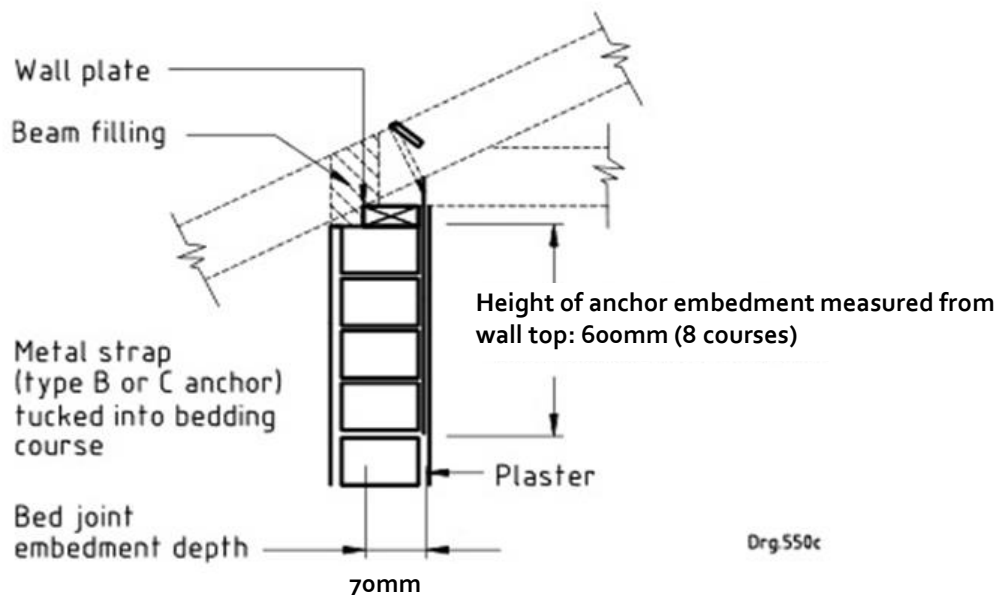


Figure 8: Truss anchoring Type B as per SANS 10400K for light roofs with a 15-30 degrees pitch.

**PPS R3**

**HURRICANE CLIPS**

1. Hurricane clips must be used in the construction of the roof. Hurricane clips must be pre-fabricated units as supplied within the industry for timber construction. The hurricane clips must be galvanized to 275g/m<sup>2</sup>. **Two** clips per purlin/rafter intersection.

**PPS R4**

**FASCIA BOARDS**

1. Fiber-cement fascia boards all around roof of 225 x 10 mm in dimension, to be securely fitted.

**PPS R5**

**BARGE BOARDS**

1. Supply, delivery and installation of fibre-cement barge boards on required portions of the roof, 225 x 80 X 10mm in dimension, to be securely fitted.

**PPS R6**

**VENTILATION**

1. Two metal turbine type ventilators with 3000mm throat diameter to be installed in the steel roof sheets as per Drawings DR02 (SHP/RDN/2020/027 and DR04 (SHP/RDN/2020/027).

**PPS R7**

**SEAMLESS ALUMINIUM GUTTERS AND DOWN PIPES**

1. 155 x125mm Industrial Ogee Gutter and 105x75mm down pipes connected to the water tanks (See Figure 9). Gutters, down-pipes, bends, fittings and must be seamless aluminum according to SANS standards. All gutters are to be made on site, to exacted height from roof to the ground level. Pipes and gutters sloped evenly, well secured to wall and roof. All gutters and down pipes should be Chromadek coated in off-white colour / lite cream or as otherwise approved by the Engineer.

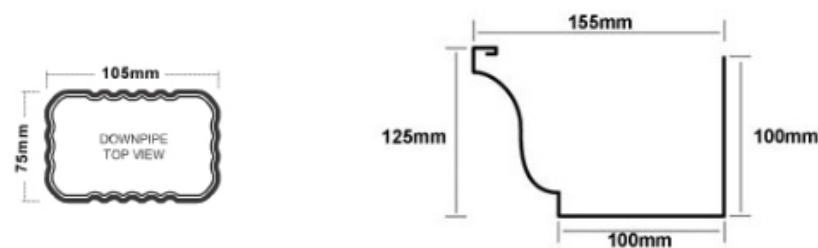


Figure 9: Cross sections of seamless aluminium OGEE gutter and downpipe

<b>PPS R 8</b>	<b>ROOF SHEETING</b>
----------------	----------------------

1. IBR profile Chromadek or Clean Colorbond sheeting shall be allowed. Minimum sheet thickness of 0,53mm.
2. For **inland** sites situated more than 20km inland from the sea, Chromadek standard (Z200) shall be allowed, composed of hot-dip galvanized sheeting, pre-primed with an epoxy/Chroma pre-primer 4-6 microns thick, and finished with a final paint coat of 20-22 microns thick on the top surface. Alternatively, Clean Colorbond Zinalume AZ 150 with 150g/m<sup>2</sup> coating may be used.
3. For **coastal** woolsheds built 20km or less from the sea, Chromadek PLUS/Ultim (Z275) shall be used, composed of hot-dip galvanized sheeting, pre-primed with primer 20-25 microns thick, and a finishing with a final paint coat 20-22 microns thick on the top surface. Alternatively, Clean Colorbond Zinalume AZ 200 with 200g/m<sup>2</sup> coating may be used.
4. Colours to be used for the roof sheets:  
Clean Colorbond: African Cream AZ150. Chromadek: Aloe green/Sandstone beige.
5. IBR profile polycarbonate roofsheets to be installed in the roof as per Drawing 04 (SHP/RDN/2020/029) above the shearing board and the wool storage area. Type and grade: Opal (white), 1.00mm/1.25mm.

<b>PPS R 9</b>	<b>ROOF INSULATION</b>
----------------	------------------------

1. Alucushion Bubble foil insulation (or equivalent) on PVC- coated straining wire (2.5mm min, wires 300mm apart) is required underneath the steel roof sheets *only* throughout the structure. To be well secured and fixed to the structure. To be installed leaving at least 50 mm distance between the foil and the bottom of the roofsheet.

<b>PPS R 10</b>	<b>CEILING FOR OFFICE/STORE ROOM</b>
-----------------	--------------------------------------

1. Nutec ceiling (4mm) to be installed in the store room/office against 38 x 38mm brandering at 325mm centres with 32mm x 2.5mm serrated ceiling nails. Edge brandering to be 25mm away from the wall. Use joining strips in between nutec sheets.
2. Ceiling to be finished off with cornices. After installation the ceiling is to be painted white with acrylic PVA (two coats, first one 10 diluted).

<b>PPS R11</b>	<b>MEASUREMENT AND PAYMENT</b>
----------------	--------------------------------

Item	Unit
<b>PPS R 11.1 Roof structure complete</b> .....Sum The unit of measurement shall be in lump sum, for the complete installed roof <i>structure</i> . The tendered rate shall include the design of the structure, all materials (including trusses, purlins, hurricane clips) labour, transport, inspection and certification fees as specified.	
<b>PPS R 11.2 Roofcover</b> .....Sum The unit of measurement shall be in lump sum, for the complete roof <i>cover</i> . The tendered rate shall include all materials (including Chromadek/Zincalume/Colorbond and polycarbonate roof sheets, roof cap, and sheeting fasteners) as well as installation, labour, transport, inspection and certification fees as specified.	
<b>PPS R 11.3 Seamless Aluminium Gutters</b> .....Sum The unit of measurement shall be in lump sum, gutters. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS R 11.4 Down pipes</b> ..... Sum The unit of measurement shall be in lump sum, down pipes. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS R 11.5 Fascia boards and barge boards</b> ..... Sum The unit of measurement shall be in lump sum, for fascia boards and barge boards. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS R11.6 Alufoil insulation</b> ..... Sum The unit of measurement shall be in lump sum, for the installed insulation. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS R 11.7 Turbine ventilators</b> ..... Sum The unit of measurement shall be in lump sum, for the two ventilators. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS R 11.8 Ceiling</b> .....Sum The unit of measurement shall be in lump sum for the completed installation. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	

## C | PIT TOILET (PT)

<b>PPS PT1</b>	<b>PIT TOILET</b>
----------------	-------------------

1. All applicable specifications and clauses will apply as for Earth work, Concrete work, Masonry work, Doors, and Paint Work, as previously specified in this document, and on the drawings.
2. Alternatively, any SABS approved prefabricated concrete toilet, consisting of concrete wall and roof panels, floor slab, vent pipe and steel door, plus pedestal, may be installed. Examples: Eldoloo, Contractor to obtain approval from the Engineer for this prior to purchase of the toilet.



<b>PPS PT2</b>	<b>ROOF STRUCTURE</b>
----------------	-----------------------

1. The roof shall be constructed as specified on drawings. All relevant specifications for sheeting, timber and fasteners shall be applicable, as specified in the Roofing section of this document (PPS R1-7).

<b>PPS PT3</b>	<b>PEDESTAL</b>
----------------	-----------------

1. The toilet pedestal shall be a high quality PVC pedestal with seat and seat cover., pre-approved by the Engineer. The pedestal shall be secured and fitted strictly according to the manufacturer's instructions. Minimum height: 500mm.

<b>PPS PT4</b>	<b>VENTILATION PIPE</b>
----------------	-------------------------

1. The ventilation pipe shall consist of a 110mm PVC pipes and fittings, UV protected and complying to the relevant SANS specifications. The pipe shall be secured to the back of the toilet building, securely fitted and sealed in the concrete slab. The pipe shall be black, or painted black in order to improve airflow.

<b>PPS PT5</b>	<b>DOORS</b>
----------------	--------------

1. Doors to be pine ledged and braced batten door 1750/1850 x 760 x 40-44 mm (battens and braces to be 20-22mm thick). Doorframes may be steel (minimum 12ga. or 14 ga. (2.3mm – 1.7mm). Doors to come with 3 steel hinges 250mm x 50mm x 2.5mm and sliding latches on inside and outside. To be installed with 50mm apertures above and under the door for light and ventilation.

<b>PPS PT6</b>	<b>MEASUREMENT AND PAYMENT</b>
----------------	--------------------------------

Item	Unit
<b>PPS PT6.1 VIP latrine roof structure complete</b> .....	Sum
The unit of measurement shall be in lump sum, for the complete roof structure. The tendered rate shall include the all materials, timber, sheeting, fasteners, labour, and transport as specified.	
<b>PPS PT6.2 Pedestal</b> .....	No.
The unit of measurement shall be number for the pedestals. The tendered rate shall include full compensation for all materials, transport and labour as per specification.	
<b>PPS PT6.3 Ventilation pipes</b> .....	No.
The unit of measurement shall be in number for the ventilation pipes. The tendered rate shall include full compensation for all materials, installation, transport and labour as per specification.	

## D | DIP TANK (D)



All applicable specifications and clauses will apply as for Earth work, Concrete work and Masonry work as previously specified in this document, and on the drawings.

<b>PPS D1</b>	<b>DIP TANK</b>
---------------	-----------------

1. All applicable specifications and clauses will apply as for Earth work, Concrete work, Masonry work and plaster works.
2. Walls to be built of NFX bricks sloping backwards at 1%.
3. A refill with G6 aggregate is required on the wall's outside compacted in layers of 200mm to support the wall.
4. The dip tank shall be fully waterproof, for example by the addition of a bonding agent to the plaster (e.g. Sika Cemflex ZH0256).

<b>PPS D2</b>	<b>CONCRETE FLOOR</b>
---------------	-----------------------

1. Clear the area of the entrance and exit pens of all organic and loose material, and ensure that it is shaped as prescribed in Drawing DR09.
2. Compact the soil where necessary before casting applying a 100mm compacted layer of crusher run as a base for the concrete floor.
3. Place steel reinforcement and formwork and cast the 30MPa/19mm floor according to the specification of concrete, as set out in the section for concrete work.
4. Two 200mm x 160mm concrete lips to be built on top of the floor at both edges of the floor, with reinforcement, to prevent the lateral movement of the wall. See Drawing 9.
5. Mortar cornices 50 x 50mm to be installed between the floor surface and walls.

<b>PPS D3</b>	<b>WATER CONNECTION</b>
---------------	-------------------------

1. This item covers the tanks and connections to the dip as shown on Drawing 9 (SHP/RDN/2020/035) and Drawing 12 (SHP/RDN/2020/037). This could include (the establishment of) a connection to a pressurized water source. A provisional sum (BoQ item 3.5) will be utilised and a quotation will be requested from the supplier.
2. Underground 40mm OD PVC pipelines to connect water tanks and diptank.
3. Underground section of the diptank supply line to have 45 degrees bend. Supply line to exit 300mm above full supply level.

<b>PPS D4</b>	<b>CONCRETE SLABS FOR DIPTANK APPROACH AND EXIT AREAS</b>
---------------	---

1. Approach funnel to the diptank (15m<sup>2</sup>) and exit area (14m<sup>2</sup>) to be concreted with 20MPa/ 19mm concrete 100mm thick.

<b>PPS D6</b>	<b>MEASUREMENT AND PAYMENT</b>
---------------	--------------------------------

Item	Unit
<b>PPS D6.1 Longitudinal dip tank .....</b>	<b>Lump Sum.</b>
The unit of measurement shall be in Lump Sum. The tendered rate shall include full compensation for the supply, transport, delivery and ensuring that the dip is fully waterproof as specified.	

## E | SECURITY FENCING (SF)

<b>PPS SF1</b>	<b>EXCAVATIONS FOR THE FENCE POSTS</b>
----------------	--

- Excavations as per PPS EW2.
- Dimensions of the excavations for the posts and stays are as follows:
  - Gate & corner & intermediate posts 400 x 400 x 800mm
  - Stays: 600 (L) x 400 (w) x 400 (d)mm

<b>PPS SF2</b>	<b>CORNER, GATE &amp; INTERMEDIATE POSTS, STAYS &amp; STANDARDS</b>
----------------	---

- Corner & gate posts shall be 3.00m x 101mm OD x 3,1mm fully galvanized with caps and base plates. (SANS 675), Base plates shall be 250mm x 250mm x 5mm each base plate shall have a central hole of 10mm, caps shall be 1.6mm thick and large enough to cover the top of tubular post.
- Intermediate posts. These shall be 3.00m x 80mm OD x 2,5mm fully galvanized with caps of 1,6mm thick, large enough to cover the top of tubular post and base plate shall be 230mm x 230mm x 5mm with a central hole of diameter of 10mm.
- Stays shall be 2,4m x 48mm OD x 2,5mm fully galvanized with bolt to bolt to the corner and gate posts with base plates of 230mm x 230mm x 5mm. Bolts, nuts and washers shall comply with the relevant requirement of SABS 135 and washers shall comply with the requirements of CKS 264. The normal diameter of the bolts shall be M10 in the case of strain eye bolts, M12 in the case of stays bolts and straining posts, M16 in the case of hinge bolts for gates, the length of a bolt shall be appropriate to its application.
- Standards shall be Y-section iron standards with a total length of 3050mm that is a total mass of 5.5 kg for a 2.40m length standard. The standards shall be provided notches and hoes 50mm apart. Standards shall be according to ISCOR specifications SPE 261.

<b>PPS SF3</b>	<b>STEEL WIRES AND MESH</b>
----------------	-----------------------------

- Steel wire and mesh

Barbed wire: Barbed wire shall comply with the requirements of SABS 675 and shall be mild-steel-grade fully galvanized zinc-coated double strand uni-directional twist wire, each strand 2.0 mm in diameter. Barbs shall be manufactured from 1,6mm fully galvanized zinc-coated mild steel wire and shall be spaced at not more than 150mm. Barbed wire to be strung at 200 and 400 above the mesh curtain

**Plain wire:** The wire shall be class A, galvanized and comply with the requirements of SABS 675 and shall be of type specified below:

- > **Straining wire** shall be 4.0 mm diameter fully galvanized zinc-coated mild-steel wire.
- > **Binding wire** shall be 1.6 mm diameter mild-steel fully galvanized zinc-coated wire for tying fencing wire to standard.
- > **Welded mesh:** shall be 1.83m high and lightly galvanised. Dimensions: 100mm x 50mm x 2.5mm and come on 30m rolls and comply with the requirements of SABS 675.

## 2. Razor wire flat wrap coils

Shall be flatwrap tape wire coils of 500mm to be stretched to 15 m length when installed. Erected as per engineer's instruction.

<b>PPS SF4</b>	<b>MAIN GATE</b>
----------------	------------------

1. The double framed gate shall be manufactured of mild-steel tubing having continuously welded seams and fully galvanized.
2. The frames shall be of tubing of minimum bore of 42 mm and wall thickness of 2.5 mm in the case of main frame members, and bore of 32mm and wall thickness of 2.0 mm in the case of bracing members and fully galvanized.
3. The gate should be manufactured so that it matches the perimeter fencing as per engineer's instruction and be complete in every respect, including hinges, washers, bolts and locking chains attached to the gate. See Drawings 13 B & C.

<b>PPS SF5</b>	<b>CONCRETE FOOTING FOR CORNER, GATE AND INTERMEDIATE POSTS</b>
----------------	---

1. Concrete mix to be 15MPa/13mm. Baseplates and tubing to have a minimum of 50mm cover on all sides.

<b>PPS SF6</b>	<b>MEASUREMENT AND PAYMENT</b>
----------------	--------------------------------

Item	Unit
<b>PPS SF6.1 Labour and supervision for the erection of the security fencing .....m.</b>	
The unit of measurement shall pro rata the running meter of fence completed.	
<b>PPS SF6.2 Security fencing .....m.</b>	
The unit of measurement shall be in running meter completed fence. The tendered rate shall include all materials, posts, concrete, anchor wire, barbed wire, binding wire, weld mesh, flat wrap coils, labour, wastage as per running meter of fence, as specified in the drawings and specifications. It shall <i>exclude</i> the supply and installation of the main gate.	
<b>PPS SF6.3 Main gate.....Lump sum</b>	
The unit of measurement shall be the completion of the installation of the gate and include manufacturing, supply and installation of the two gate frames, as per the drawings and PPS.	

## F | ANIMAL HANDLING FACILITIES (HF)

<b>PPS – HF1</b>	<b>ANIMAL HANDLING FACILITIES- INSTALLATION</b>
------------------	---

1. The animal handling facility shall be constructed according to the layout as shown in Drawings 10 (SHP/RDN/2020/035) and 12 (SHP/RDN/2020/036). The fence lines of the animal facility, consist of two types of fences, with the one marked YY being the one for the crush. Care must be taken to construct fences strictly according to the specified type.
2. Posts shall be accurately set in holes and shall be provided with concrete basis to the dimensions shown on the drawings. Holes shall be dug to the full specified depth. All posts shall be accurately aligned and set plumb. After posts have been firmly set in accordance with the foregoing requirements, fence wires shall be attached thereto at the spacing shown on the drawings.
3. All fencing wire shall be tied to the sides of posts to prevent the wires from being displaced or becoming loose. The wire shall be carefully tensioned without sagging, and true to line, care being exercised not to tension the wire to such an extent that it will break, or that end, corner, straining or gate posts will be pulled out, or that it will be easily damaged during veld fires. A tension of 1,0 kN (kilo Newton) per wire shall be required as working stress. This stress will be determined seven days after erection.
4. Each strand of fencing wire shall be securely tied in the correct position hard up to each post with soft galvanized binding wire. The ends of the binding wire shall be wound at least four times around the fencing wire and post to prevent it from moving in a vertical direction.
5. At all straining posts at terminal points, gates, corners, and other specified positions, the fencing wire shall be securely wrapped twice around the post and secured against slipping by binding the end tightly around the wire by means of at least six snug tight twists.
6. Where high-tensile wire is used, two long twists may first be made followed by the six tight, snug twists around the post to prevent the wire from breaking at the first twist. When smooth wire is used, the loose end shall preferably be bent over and hooked into the notch between the fencing wire and the first twist.
7. Where netting wire is used in the fences (*viz* hinge joint fencing), wire netting shall be stretched against the fence and properly tied to the fencing wire as shown on the drawings. The wire netting shall be secured by soft binding wire at 0,5 m centers along the top, middle and bottom wires.
8. Gates shall be erected at the positions indicated by the engineer. The gates shall be hung on gate fittings in accordance with the requirements shown on the drawings. Gates shall be so erected as to swing in a horizontal plane at right angles to the gate posts, clear of the ground in all positions. Clearance below the gates shall not exceed 75 mm with the gates closed.

<b>PPS – HF2</b>	<b>ANIMAL HANDLING FACILITIES - MATERIALS</b>
------------------	---

1. Posts, stays, and droppers shall be of the type and size indicated on the drawings. Timber posts shall comply with the requirements of SABS 457. Timber posts shall be CCA treated as per SABS 1288 (Preservative treated timber).
2. Plain wire shall comply with the requirements of SABS 675 and shall be of the types specified below:

- Straining wire shall be 4,00 mm Ø fully galvanized zinc-coated high-tensile-grade steel wire.
  - Fencing wire shall be high-tensile-grade steel 2,24 mm Ø fully galvanized zinc-coated wire.
  - Binding wire shall be 2,50 mm Ø mild-steel fully galvanized zinc-coated wire for binding fencing wire to standards and droppers and 1,6 mm mild-steel fully galvanized zinc-coated wire for binding netting and mesh wire to the fencing wire.
3. Hinged joint fencing shall be fully galvanized mild-steel wire with a minimum diameter of 1,8 mm, with verticals at **150mm**. Height of the fencing is 1.20m. Three straining wires at 50mm, 600mm and 1150mm heights. See Drawing 13 (FEN/RDN/2020/038).
  4. Gates shall be manufactured to the dimensions and details shown on Drawing 13 (FEN/RDN/2020/038A). Gates shall be complete in every respect, including hinges, washers, bolts and locking chains attached to the gate. Gates shall be zinc-coated as specified in SABS 763 for class B1 articles.
  5. The actual diameter of wire supplied shall equal the specified diameter subject to the appropriate tolerance given in SABS 675.

PPS HF3	MEASUREMENT AND PAYMENT
Item	Unit
<b>PPS HF3.1 Other fencing required for handling facilities.....</b>	m
The unit of measurement shall be in running meter completed fence. The tendered rate shall include all materials, posts, concrete, wires and droppers, labour, wastage as per running meter of fence, as specified in the drawings and specifications.	
<b>PPS HF3.2 Gates (Animal Handling Facilities) .....</b>	No.
The unit of measurement shall be in number, according to the dimensions as indicated on the drawings. The tendered rate shall include full compensation for all supply, delivery and installation of materials as per specification.	

## G | ADDITIONAL WORK

### PPS – AW1

### CUT OFF DRAIN

1. Cut off V-drain to be constructed above woolshed as per cross section Figure 10.
2. Drain to be compacted to 90% ModAASHTO.

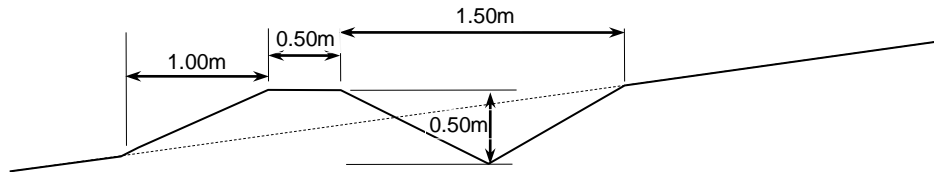


Fig. 10. Cross section of storm water cut off drain

### PPS AW2

### MEASUREMENT AND PAYMENT

Item	Unit
<b>PPS AW2.2 Cut off drain</b> .....	No.
The unit of measurement shall be in running meter completed drain. The tendered rate shall include all excavations, grading, compaction and full compensation of plant and labour.	

**LIST OF ANNEXURES**

<b>ANNEXURE</b>	<b>DESCRIPTION</b>	<b>PAGE Nos.</b>
<b>ANNEXURE A</b>	BILL OF QUANTITIES 1. Dayi, Umzimkhulu 2. Kopanang, Greater Kokstad 3. Marhambeni, Greater Kokstad 4. Mtshibeni, Umzimkhulu 5. Emvubukazi, Umzimkhulu 6. Sihlezo, Umzimkhulu	112 – 127 128 – 143 144 – 159 160 – 175 176 – 191 192 – 207
<b>ANNEXURE B</b>	CONTRACTOR'S OCCUPATIONAL HEALTH AND SAFETY DECLARATION	208 - 209
<b>ANNEXURE C</b>	ADDITIONAL INFORMATION – A   EQUIPMENT & RESOURCES	210 - 211
	ADDITIONAL INFORMATION – B   SUBCONTRACTED WORKS	
	ADDITIONAL INFORMATION – C   EQUIPMENT & RESOURCES	
<b>ANNEXURE D</b>	PRELIMINARY CONSTRUCTION PROGRAMME	212 - 213
<b>ANNEXURE E</b>	DRAWINGS	214 - 229

**PART E – BILL OF QUANTITIES****1. DAYI, UMZIMKHULU****SUMMARY OF SECTIONS**

SECTION	PAGE NO.	DESCRIPTION	AMOUNT (RAND)
<b>1</b>	<b>1</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
	<b>2</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
<b>2</b>	<b>3</b>	<b>SECTION B: WOOLSHED</b>	<b>R.....</b>
	<b>4</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>5</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>6</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>7</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
<b>3</b>	<b>8</b>	<b>SECTION C: PIT TOILET</b>	<b>R.....</b>
	<b>9</b>	<b>SECTION C: PIT TOILET (CTD)</b>	<b>R.....</b>
<b>4</b>	<b>10</b>	<b>SECTION D: DIP TANK</b>	<b>R.....</b>
<b>5</b>	<b>11</b>	<b>SECTION E: SECURITY FENCING</b>	<b>R.....</b>
	<b>12</b>	<b>SECTION E: SECURITY FENCING (CTD)</b>	<b>R.....</b>
<b>6</b>	<b>13</b>	<b>SECTION F: ANIMAL HANDLING FACILITIES</b>	<b>R.....</b>
<b>7</b>	<b>14</b>	<b>SECTION G: ADDITIONAL WORK</b>	<b>R.....</b>
<b>Total Carried Forward To Summary Of Schedules &gt;&gt;</b>			<b>R</b>



**1. DAYI, UMZIMKHULU****SUMMARY OF SCHEDULES**

<b>SCHEDULE</b>	<b>DESCRIPTION</b>	<b>AMOUNT (RAND)</b>
1	SHEARING SHED – SUBTOTAL OF SUMMARY PAGE	R.....
2	Contingencies 10%	R.....
<b>SUBTOTAL</b>		R.....
3	<b>VAT 15%</b>	R.....
	<b>TOTAL</b>	R.....

**1. DAYI, UMZIMKHULU**

**SECTION A: PRELIMINARY AND GENERAL**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A .1</b>	<b>8.3</b>	<b>FIXED-CHARGE ITEMS</b>				
A .1.1	8.3.1	Contractual Requirements	Sum	=====	=====	R
A.1.2	8.3.2	Establish Facilities on the Site :				
		a) Facilities for Contractor				
A.1.2.1		Offices and storage sheds	Sum	=====	=====	R
A.1.2.2		Ablution and latrine facilities	Sum	=====	=====	R
A.1.2.3		Water supplies, electric power and communications	Sum	=====	=====	R
A.1.2.4		Plant, tools and equipment Applicable only to specifically identified plant.	Sum	=====	=====	R
A.1.2.5	8.3.3	Other fixed-charge obligations	Sum	=====	=====	R
A.1.2.6	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	=====	=====	R
<b>A.2</b>	<b>8.4</b>	<b>TIME-RELATED ITEMS</b>				
A.2.1	8.4.1	Contractual Requirements	Sum	=====	=====	R
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Contractor for duration of construction, except where otherwise stated				
A.2.2		Offices and storage sheds	Sum	=====	=====	R
A.2.3		Ablution and latrine facilities	Sum	=====	=====	R
A.2.4		Plant, Tools and equipment	Sum	=====	=====	R
A.2.5		Water supplies, electric power and	Sum	=====	=====	R
A.2.7	8.4.4	Company and head office overhead costs	Sum	=====	=====	R
A.2.8	8.4.5	Other time-related obligations	Sum	=====	=====	R
<b>Total Carried Forward To Summary Page&gt;&gt;</b>					<b>R</b>	

1. DAYI, UMZIMKHULU

**SECTION A: PRELIMINARY AND GENERAL (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.3</b>	<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
	8.5	For work to be done by Contractor				
A.3.1		a) Allow for provisional sum for repairs to damaged services which could have been reasonably foreseen	Prov. Sum	=====	=====	R 20,000.00
A.3.2		b) Overheads, charges and profit on item A.3.1. Percentage tendered >>: .....%	Prov. Sum	=====	=====	R
	8.5	For work done by Nominated Sub-Contractor				
A.3.3		Density tests of all soil compactions on instruction by Engineer	Prov. Sum	=====	=====	R 12,000.00
A.3.4		Overheads, charges and profit on Item A.3.3. Percentage tendered >>.....%	Prov. Sum	=====	=====	R
A.3.5	PPS D 9.2	Water connection between plastic water tanks and dip tank and to pressurised water source (municipal or other)	Prov. Sum	=====	=====	R 18 000.00
A.3.6		Overheads, charges and profit on item A.3.7 Percentage tendered >>.....%	Prov. Sum	=====	=====	R
	8.7	Dayworks				
A.3.7		<u>Plant</u> Designated plant or plant for designated operations or plant for use during stated periods. Applicable only to specifically identified plant.	Sum	=====	=====	R
<b>A.4</b>	<b>PAM</b>	<b>OCCUPATIONAL HEALTH &amp; SAFETY ACT</b>				
A.4.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====	R
A.4.2	PAM 8.2.2	Time related obligations to comply with the OHS Act Construction Regulations	Month	6	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION B: WOOL SHED**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
B.1.1		SITE CLEARANCE				
B.1.1.1	PPS EW1,2	Clear and grub site. Dimensions: 40m x 25m	m <sup>2</sup>	1000	R	R
B.1.2		EXCAVATIONS				
B.1.2.1	PPS EW 3	Remove topsoil and stockpile (site + road)	m <sup>3</sup>	15	R	R
B.1.2.2	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials Foundations 65m x 600mm (w) x 800mm (d)	m <sup>3</sup>	35	R	R
B.1.2.3	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials - Leveling	m <sup>3</sup>	480	R	R
B.1.2.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
B.1.2.3.1	PPS EW 3	Intermediate excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.2.3.2	PPS EW 3	Hard Rock excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.3		SUBGRADE FILLING AND COMPACTION				
B.1.3.1	PPS EW 4	Filling and compaction of selected excavated material to 95% Mod AASHTO	m <sup>3</sup>	65.0	R	R
B.1.3.2	PPS EW 4	Filling and compaction of imported G5 material (150mm thick) to 95% Mod AASHTO.	m <sup>3</sup>	45.0	R	R
B.1.3.3	PPS EW 6	Filling and compaction of river sand for dip floor bedding and behind wall	m <sup>3</sup>	2.0	R	R
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
B.2.1	PPS C 17.1	Mass concrete - 20 MPa to foundations 725 x 250mm (ext.) & 500 x 250mm (int.)	m <sup>3</sup>	11.7	R	R
B.2.2	PPS C 17.2	Mass concrete - 25 MPa to Floors, Ramp and Apron	m <sup>3</sup>	23.0	R	R
B.2.3	PPS C 17.6	Damp proof membrane 375 micron to floors	m <sup>2</sup>	175	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS (CTD)</b>				
B.2.4	PPS C 17.7	Damp proof membrane 375 micron to 220mm wide walls	m	65.0	R	R
B.2.5	PPS C 17.3	Pre-stressed concrete lintels				
B.2.5.1		0.9m x 105mm x 70/75mm lintels to sliding gates. Two doors x 2 lintels.	No.	4	R	R
B.2.5.2		1.5m x 105mm x 70/75mm lintels to windows 10 windows x 2 lintels.	No.	20	R	R
B.2.5.3		1.5m x 105mm x 70/75mm lintels to doors. 4 doors x 2 lintels.	No.	8	R	R
B.2.5.4		2.7 (min.) x 140/145mm x 70/75mm lintels to roll-up doors. Two roll up doors x 3 lintels	No.	6	R	R
B.3.1	PPS MS 4.1	Foundation walls: Double brick 220mm, 800mm high (9 -10 courses). Includes ramps of 300mm high. NFX or cement bricks (14 MPa). Area: 64m x 800mm App. 6500 bricks (incl. 5% breakage). This includes 6 rolls of 20m x 150mm x 2.8mm brickforce installed at every <b>second</b> course. Bags of PPC cement: 20 Building sand: 4.5m <sup>3</sup>	m <sup>2</sup>	53	R	R
B.3.2	PPS MS 4.2	Outer walls: Double brick (230mm). Red burnt Clay plaster bricks App 18500 bricks, incl. 5% breakage) PPC Cement: 60 bags. Building sand: 13m <sup>3</sup> This item includes 36 rolls of 20m x 150mm x 2.8mm brickforce installed in every <b>third</b> course (below lintel level) and every <b>second</b> course (above lintels)	m <sup>2</sup>	160	R	R
B.3.3	PPS MS 4.5	Plaster work (15mm) inside & outside - 174m <sup>2</sup> . Includes Interior walls. Materials & labour. PPC cement: 35 bags Plaster sand: 7.0m <sup>3</sup>	m <sup>2</sup>	1		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.3.4	PPS MS 4.3	Inner walls: M150 blocks (150x) (incl. 5% breakage). Materials: 0.25m <sup>3</sup> of building sand. 2 bags of cement. 2 rolls of 20m x 150mm x 2.8mm brickforce installed at every second course	Sum.	1	R	R
B.3.4	PPS MS 4.4	Ventilation bricks - 190mm	No.	14	R	R
B.3.5	PPS MS 4.5	Plasterwork to all walls (320m <sup>2</sup> ) including dip tank (35m <sup>2</sup> ), both sides 10mm thick.	m <sup>2</sup>	355	R	R
<b>B.4</b>	<b>PPS F</b>	<b>WINDOWS, DOORS AND FITTINGS</b>				
B.4.1	PPS F 7.1	Durowin Code SS33 (1 445mm x 987mm) windows, fitted and glazed (floated glass, 4mm thick)	No.	10	R	R
B.4.2	PPS F 7.2	Steel door frames: 2 032mm x 813mm x 234mm	No.	3	R	R
B.4.3	PPS F 7.2	Steel door frame: 2 032mm x 813mm x 154mm	No.	1	R	R
B.4.4	PPS F 7.3	Solid fully meranti 4/8 panel hard wood <b>stable</b> doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.3	Solid fully meranti 4/8 panel hard wood doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.4	Guillotine gate as per Drawing 7 A & B (SHP/RDN/2020/033) –PPS F5	No.	2	R	R
B.4.6	PPS F 7.5	Industrial heavy duty roll-up steel door Dimensions: 2100mm x 2 300mm) - PPS F4	No.	2	R	R
B.4.7	PPS F 7.6	5 000 litre polyethylene plastic tank, fittings, valves and anchored to tank base PPS F6	No.	2	R	R
B.4.8	PPS F 7.7	Tank base complete (Drawing 14)	No.	2	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
B.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer	m <sup>2</sup>	340	R	R
B.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat	m <sup>2</sup>	340	R	R
B.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA	m <sup>2</sup>	340	R	R
B.5.4	PPS P 6.4	Windows: 1 Coat Steel Primer and two (2) coats enamel paint to windows code SS33 (1 445mm x 987mm)	No.	10	R	R
B.5.5	PPS P 6.4	Door frames: 1 Coat steel primer and two (2) coats enamel paint to steel door frames (2 032mm x 813mm x <b>234</b> mm)	No.	3	R	R
B.5.6	PPS P 6.4	Door frame: 1 Coat steel primer and two (2) coats enamel paint to steel door frame 2032mm x 813mm x <b>154</b> m	No.	1	R	R
B.5.7	PPS P 6.5	Doors: 2 Coats exterior UV resistant varnish	No.	4	R	R
B.5.8	PPS P 6.6	Painting of purpose made guillotine gates as per Drawing 07 (SHP/RDN/2020/032). Two coats of red oxide steel primer	No.	2	R	R
<b>B.6</b>	<b>PPS R</b>	<b>ROOF</b>				
B.6.1	PPS R11.1	Roof structure complete, designed, fitted and certified. Including trusses (PPS R1 & 2), purlins & hurricane clips (R3).	Sum	=====	=====	R
B.6.2	PPS R 11.2	Chromadek & polycarbonate (10x) roof sheets as per PPS R8.1 - 8.5, supplied & fitted as per Drawing 4 (SHP/RDN/2020/028	Sum	=====	=====	R
B.6.3	PPS R 11.3	155mm x 100mm Industrial Ogee Aluminium Seamless gutters completed and fitted (R7)	m	41.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION B – WOOLSHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.6.4	PPS R 11.4	105mm x 75mm Aluminium down pipes completed and fitted (R7)	Lump Sum	=====	=====	R
B.6.5	PPS R 11.5	Fibre-cement barge board (PPS R5) (225 x 80 x 10mm) and fascia boards (R4) (225 x 10), completed and fitted.	Sum	=====	=====	R
B.6.6	PPS R11.6	Alufoil insulation (PPS R9)	m <sup>2</sup>	150	R	R
B.6.7	PPS R11.7	Metal turbine ventilator 300mm throat	No.	2	R	R
B.6.8	PPS R11.6	Ceiling for office. Complete as per PPS R10. See Drawing 06 (SHP/RDN/2020/031)	Lump Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	



**1. DAYI, UMZIMKHULU**

**SECTION C: VIP LATRINE (2 X)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
C.1.1		EXCAVATIONS				
C.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	32.0	R	R
C.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and mount and dispose of excess materials	m <sup>3</sup>	14.0	R	R
C.1.2		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
C.1.2.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	=====	R	Rates only
C.1.2.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	=====	R	Rates only
<b>C.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
C.2.1	PPS C 17.2	Mass concrete pit floors - 20 MPa to foundations. 2.70m x 2.70m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.2	PPS C 17.4	Reinforced concrete slab - 30 MPa floor to Pit Toilet 3.20m x 2.30m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.3	PPS C 17.5	Steel reinforcement to concrete slab. Ref 395 – two sheets. See Drawing 15.	Sum	=====	=====	
C.2.4	PPS C 17.6.2	DPC 375 micron to 150mm wide walls	m	20.0	R	R
C.2.5		Pre-stressed concrete lintels				
C.2.5.1	PPS C 17.3	1.50m x 140mm x 75mm lintels to doors	No.	2	R	R
<b>C.3</b>	<b>PPS MS</b>	<b>MASONRY WORKS</b>				
C.3.1	PPS MS 4.3	Pit and superstructure walls: M150mm cement blocks. 2 x 300 = 600 blocks. 14.4 m <sup>2</sup> (pit) + 10.8 m <sup>2</sup> (superstructure) = 25.2m <sup>2</sup> per toilet	m <sup>2</sup>	50.4	R	R
C.3.2	PPS MS 4.5	Plasterwork (10mm thick) for superstructure <i>only</i> on inside and outside. 21.6m <sup>2</sup> per toilet	m <sup>2</sup>	43.2	R	R
<sup>1</sup> All quantities are for 2 latrines <<<						
<b>Total Carried Forward to Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION C: PIT TOILET (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.4</b>	<b>PPS F</b>	<b>DOORS AND FITTINGS</b>				
C.4.1	PPS F 7.2	<b>Meranti</b> (dimensions as per drawing) doorframe OR Heavy duty <b>steel</b> doorframe (14 ga/1.6mm min. Dimensions: 2 032mm x 813mm x 150mm (PPS-F2)	No.	2	R	R
C.4.2	PPS F 7.3	Pine ledged and braced batten door 1750/1850 x 760 x 40 mm (battens and braces to be 20mm thick) (PPS - PT5)	No.	2	R	R
C.4.3	PPS PT 5.2	Pedestal: Plastic. With toilet seat & cover. Height: 500mm high. PPS – PT3	No.	2	R	R
C.4.4	PPS PT 5.3	Ventilation pipes: 3m x 110mm PVC – Black PPS – PT4	No.	2	R	R
<b>C.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
C.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer Spreading rate: 8m <sup>2</sup> /L. Required: 6L.	m <sup>2</sup>	43.2	R	R
C.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat Spreading rate: 6m <sup>2</sup> /L. required: 8L.	m <sup>2</sup>	43.2	R	R
C.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA (off-white/beige) Spreading rate: 9m <sup>2</sup> Required: 10L.	m <sup>2</sup>	43.2	R	R
C.5.4	PPS P 6.4	<u>Door frames (steel)</u> : 1 Coat steel primer (1L) and two (2) coats enamel paint (1L) OR <u>Doorframes (meranti)</u> : 3 coats of varnish (light oak). 1 <sup>st</sup> & 2 <sup>nd</sup> diluted with tur-pentine 25% & 10% respectively). Req'd: 1L	No.	2.0	R	R
C.5.5	PPS P 6.5	<u>Doors</u> : 3 Coats exterior UV resistant varnish. 3 coats (1 <sup>st</sup> & 2 <sup>nd</sup> diluted). Required: 3L.	No.	2.0	R	R
<b>C.6</b>	<b>PPS PT</b>	<b>ROOF</b>				
B.6.1	PPS PT 6.1	Roof structure complete, fitted and certified	Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 1. DAYI, UMZIMKHULU

### SECTION D: DIP TANK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>D.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
D.1.1		EXCAVATIONS				
D.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	27	R	R
D.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and dispose of excess materials	m <sup>3</sup>	13.8	R	R
D.1.1.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
D.1.1.3.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	TBA	R	Rates only
D.1.1.3.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	TBA	R	Rates only
<b>D.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
D.2.1	PPS C 17.4	Reinforced concrete floor and steps for diptank- 25 MPa dipping facility as per Drawing 9 – SHP/RDN/2020/031. Including steel reinforcement (mesh, rebar and angle iron with fish tails). PPS-D2	m <sup>3</sup>	1.9	R	R
D.2.3	PPS C 17.1	20MPa/19mm mass concrete slabs 100mm thick for entry and exit areas around diptank. 14 + 15 = 29 m <sup>2</sup> in total. PPS D4	m <sup>3</sup>	2.9	R	R
<b>D.3</b>	<b>PPS MS</b>	<b>MASONRY WORK</b>				
D.3.1	PPS MS 4.2	Dip Tank walls: 230mm - Burnt Clay brick walls. 25m <sup>2</sup> @ 55bricks/m <sup>2</sup> = 2665 bricks	Lump Sum	=====	=====	R
D.3.2	PPS MS 4.6	Smooth formwork to vertical plane for diptank steps (21 steps + chamfering lats)	m <sup>2</sup>	10.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION E: SECURITY FENCING**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
E.1.1		EXCAVATIONS				
E.1.1.1	PPS EW 4	Excavate in all materials for fence posts and stays and dispose of excess materials	m³	5.2		
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
		<i>Fence description: 1.80m high weld mesh fence with barbed wire and 500mm flat wrap razor coils on top. Total height: 2.2m. Corner and gate posts to be round steel tubing, with 2.4m Y-standards at 2.5m centres as intermediate posts. Total length: 125m</i>				
E.2.1	PPS SF6.1	Labour and supervision costs for the erection of a 2.3m high standard security fence around the premises as per Drawings 10, 11 & 13.	Lump Sum	=====	=====	R
E.2.2		Extra-over on Item E.2.1 for the supply and delivery of:				
E.2.2.1	PPS SF6.2	Corner / Gate posts (fully galv. mild steel post, capped. Dimensions: 3.00m x 100mm OD x 3.1mm – PPS SF2.1	No.	6		
E.2.2.2	PPS SF6.2	Intermediate posts (fully galvanized mild steel posts, capped. Dim.3.00m x 90mm OD x 2.5mm. PPS SF2.2	No.	13		
E.2.2.3	PPS SF6.2	Stays (fully galvanized mild steel stays, Dim. 2.4m x 48mm OD x 2.5mm. PPS SF2.3	No.	35		
E.2.2.4	PPS SF6.2	Steel Y-section iron standards – 2.4m.SF2.4	No.	30		
E.2.2.5	PPS SF6.2	4mm fully galv. mild steel zinc coated wire - 5kg/50m rolls. PPS SF3.1	No.	10		
E.2.2.6	PPS SF6.2	2.5mm "Iowa"-type double strand fully galv. mild steel barbed wire - 540m roll. SF3.1	No.	1		
E.2.2.7	PPS SF6.2	1830mm x 100mm x 50mm x 2.5mm welded mesh, 30m roll. PPS SF3.1	No.	5		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**1. DAYI, UMZIMKHULU**

**SECTION E: SECURITY FENCING (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
E.2.2.8	PPS SF6.2	Razor flat wrap coils 500mm x 15m roll. PPS/SF3.2	No.	9		
E.2.2.9	PPS SF6.2	1.6mm fully galvanized mild steel zinc coated binding wire - 50kg roll. PPS SF3.1	No.	2		
E.2.2.10	PPS SF6.3	Double leafed/framed heavy duty entry gate 3.6m x 2.3m as per PPS SF4 & Drawing 13B (FEN/RDN/2020/038), including concrete footings (0.5m <sup>3</sup> ). PPS SF4	No.	1		
E.2.2.11	PPS C17.1	15 MPa/13mm concrete footing for the security fencing posts, but excluding the footings for the main gate. PPS SF5 Materials: 28 bags of cement. Sand: 2.7m <sup>3</sup> . 13mm stone: 3.2m <sup>3</sup> .	m <sup>3</sup>	5.2		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 1. DAYI, UMZIMKHULU

## SECTION F: ANIMAL HANDLING FACILITIES

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>F.1</b>		<b>FENCING</b>				
F.1.1	PPS HF3.1	CCA treated gate & corner poles: 1.80m x 100/125mm		25		
F.1.2	PPS HF3.1	CCA treated box & intermediate posts: 1.80m x 75/100mm		66		
F.1.3	PPS HF3.1	CCA treated poles 1.50m x 75/100mm		13		
F.1.4	PPS HF3.1	CCA treated braces 900mm (24*1.80m x 75/100mm) cut in two pieces		13		
F.1.5	PPS HF3.1	CCA treated laterals 3.60m x 75/100mm		5		
F.1.6	PPS HF3.1	Hinged joint fencing (galv.) top hor. strand closer than bottom ones 1.20m with verticals at 150mm. Rolls of 30m length		3		
F.1.7	PPS HF3.1	High tensile steel wire 2.25mm. Rolls of 5kg/130m		4		
F.1.8	PPS HF3.1	Staples 25mmx 2.5mm - Packs of 0.5kg/225/pk		5		
F.1.9	PPS HF3.1	Hoop iron (galv.) 400 x 30 x 1.0mm		17		
F.1.10	PPS HF3.1	15 MPa/13mm concrete for 67 footings 400 x 400 x 600mm. Total volume cured: 6.3m <sup>3</sup> Cement: 29 bags <> Sand: 3.1m <sup>3</sup> <> Stone (13mm): 4.1m <sup>3</sup>	m <sup>3</sup>	6.3		
<b>F.2</b>		<b>GATES</b>				
F.2.1	PPS HF3.2	Heavy duty farm gate, 2.4m x 1.2m	No.	3		
F.2.2	PPS HF3.2	Heavy duty farm gate, 1.2m x 1.2m	No.	10		
F.2.3	PPS HF3.2	Heavy duty farm gate, 0.9m x 1.2m	No.	8		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

1. DAYI, UMZIMKHULU
---------------------

## SECTION G: ADDITIONAL WORK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G.1		CONSTRUCTION OF A CUT OFF DRAIN  Description: cutting and compaction of a cut off V-drain above the woolshed. See PPS AW1 & Figure 10.				
G.1.1	PPS AW2	Cutting of a V-drain of 3m wide and 75-100m long above the woolshed	m³	50		
G.1.2	PPS AW2	Compaction of the V-drain to 90% Mod AASHTo	m²	250		
G.1.3	PPS A.3.3	Compaction testing	=As=	=per=	===A.3.3==	=====
Total Carried Forward To Summary >>					R	

## 2. KOPANANG, GREATER KOKSTAD

### SUMMARY OF SECTIONS

SECTION	PAGE NO.	DESCRIPTION	AMOUNT (RAND)
<b>1</b>	<b>1</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
	<b>2</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
<b>2</b>	<b>3</b>	<b>SECTION B: WOOLSHED</b>	<b>R.....</b>
	<b>4</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>5</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>6</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>7</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
<b>3</b>	<b>8</b>	<b>SECTION C: PIT TOILET</b>	<b>R.....</b>
	<b>9</b>	<b>SECTION C: PIT TOILET (CTD)</b>	<b>R.....</b>
<b>4</b>	<b>10</b>	<b>SECTION D: DIP TANK</b>	<b>R.....</b>
<b>5</b>	<b>11</b>	<b>SECTION E: SECURITY FENCING</b>	<b>R.....</b>
	<b>12</b>	<b>SECTION E: SECURITY FENCING (CTD)</b>	<b>R.....</b>
<b>6</b>	<b>13</b>	<b>SECTION F: ANIMAL HANDLING FACILITIES</b>	<b>R.....</b>
<b>7</b>	<b>14</b>	<b>SECTION G: ADDITIONAL WORK</b>	<b>R.....</b>
<b>Total Carried Forward To Summary Of Schedules &gt;&gt;</b>			<b>R</b>



---

**2. KOPANANG, GREATER KOKSTAD**


---

**SUMMARY OF SCHEDULES**

<b>SCHEDULE</b>	<b>DESCRIPTION</b>	<b>AMOUNT (RAND)</b>
1	SHEARING SHED – SUBTOTAL OF SUMMARY PAGE	R.....
2	Contingencies 10%	R.....
<b>SUBTOTAL</b>		R.....
3	<b>VAT 15%</b>	R.....
	<b>TOTAL</b>	R.....

**2. KOPANANG, GREATER KOKSTAD**

**SECTION A: PRELIMINARY AND GENERAL**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.1</b>	<b>8.3</b>	<b>FIXED-CHARGE ITEMS</b>				
A.1.1	8.3.1	Contractual Requirements	Sum	=====	=====	R
A.1.2	8.3.2	Establish Facilities on the Site :				
		a) Facilities for Contractor				
A.1.2.1		Offices and storage sheds	Sum	=====	=====	R
A.1.2.2		Ablution and latrine facilities	Sum	=====	=====	R
A.1.2.3		Water supplies, electric power and communications	Sum	=====	=====	R
A.1.2.4		Plant, tools and equipment Applicable only to specifically identified plant.	Sum	=====	=====	R
A.1.2.5	8.3.3	Other fixed-charge obligations	Sum	=====	=====	R
A.1.2.6	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	=====	=====	R
<b>A.2</b>	<b>8.4</b>	<b>TIME-RELATED ITEMS</b>				
A.2.1	8.4.1	Contractual Requirements	Sum	=====	=====	R
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Contractor for duration of construction, except where otherwise stated				
A.2.2		Offices and storage sheds	Sum	=====	=====	R
A.2.3		Ablution and latrine facilities	Sum	=====	=====	R
A.2.4		Plant, Tools and equipment	Sum	=====	=====	R
A.2.5		Water supplies, electric power and	Sum	=====	=====	R
A.2.7	8.4.4	Company and head office overhead costs	Sum	=====	=====	R
A.2.8	8.4.5	Other time-related obligations	Sum	=====	=====	R
<b>Total Carried Forward To Summary Page&gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

### SECTION A: PRELIMINARY AND GENERAL (CTD)

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.3</b>	<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
	8.5	For work to be done by Contractor				
A.3.1		a) Allow for provisional sum for repairs to damaged services which could have been reasonably foreseen	Prov. Sum	=====	=====	R 20,000.00
A.3.2		b) Overheads, charges and profit on item A.3.1. Percentage tendered >>: .....%	Prov. Sum	=====	=====	R
	8.5	For work done by Nominated Sub-Contractor				
A.3.3		Density tests of all soil compactions on instruction by Engineer	Prov. Sum	=====	=====	R 12,000.00
A.3.4		Overheads, charges and profit on Item A.3.3. Percentage tendered >>.....%	Prov. Sum	=====	=====	R
A.3.5	PPS D 9.2	Water connection between plastic water tanks and dip tank and to pressurised water source (municipal or other)	Prov. Sum	=====	=====	R 18 000.00
A.3.6		Overheads, charges and profit on item A.3.7 Percentage tendered >>.....%	Prov. Sum	=====	=====	R
	8.7	Dayworks				
A.3.7		<u>Plant</u> Designated plant or plant for designated operations or plant for use during stated periods. Applicable only to specifically identified plant.	Sum	=====	=====	R
<b>A.4</b>	<b>PAM</b>	<b>OCCUPATIONAL HEALTH &amp; SAFETY ACT</b>				
A.4.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====	R
A.4.2	PAM 8.2.2	Time related obligations to comply with the OHS Act Construction Regulations	Month	6	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**2. KOPANANG, GREATER KOKSTAD****SECTION B: WOOL SHED**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
B.1.1		SITE CLEARANCE				
B.1.1.1	PPS EW1,2	Clear and grub site. Dimensions: 40m x 25m	m <sup>2</sup>	1000	R	R
B.1.2		EXCAVATIONS				
B.1.2.1	PPS EW 3	Remove topsoil and stockpile (site + road)	m <sup>3</sup>	15	R	R
B.1.2.2	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials Foundations 65m x 600mm (w) x 800mm (d)	m <sup>3</sup>	35	R	R
B.1.2.3	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials - Leveling	m <sup>3</sup>	240	R	R
B.1.2.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
B.1.2.3.1	PPS EW 3	Intermediate excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.2.3.2	PPS EW 3	Hard Rock excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.3		SUBGRADE FILLING AND COMPACTION				
B.1.3.1	PPS EW 4	Filling and compaction of selected excavated material to 95% Mod AASHTO	m <sup>3</sup>	65.0	R	R
B.1.3.2	PPS EW 4	Filling and compaction of imported G5 material (150mm thick) to 95% Mod AASHTO.	m <sup>3</sup>	45.0	R	R
B.1.3.3	PPS EW 6	Filling and compaction of river sand for dip floor bedding and behind wall	m <sup>3</sup>	2.0	R	R
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
B.2.1	PPS C 17.1	Mass concrete - 20 MPa to foundations 725 x 250mm (ext.) & 500 x 250mm (int.)	m <sup>3</sup>	11.7	R	R
B.2.2	PPS C 17.2	Mass concrete - 25 MPa to Floors, Ramp and Apron	m <sup>3</sup>	23.0	R	R
B.2.3	PPS C 17.6	Damp proof membrane 375 micron to floors	m <sup>2</sup>	175	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**2. KOPANANG, GREATER KOKSTAD**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS (CTD)</b>				
B.2.4	PPS C 17.7	Damp proof membrane 375 micron to 220mm wide walls	m	65.0	R	R
B.2.5	PPS C 17.3	Pre-stressed concrete lintels				
B.2.5.1		0.9m x 105mm x 70/75mm lintels to sliding gates. Two doors x 2 lintels.	No.	4	R	R
B.2.5.2		1.5m x 105mm x 70/75mm lintels to windows 10 windows x 2 lintels.	No.	20	R	R
B.2.5.3		1.5m x 105mm x 70/75mm lintels to doors. 4 doors x 2 lintels.	No.	8	R	R
B.2.5.4		2.7 (min.) x 140/145mm x 70/75mm lintels to roll-up doors. Two roll up doors x 3 lintels	No.	6	R	R
B.3.1	PPS MS 4.1	Foundation walls: Double brick 220mm, 800mm high (9 -10 courses). Includes ramps of 300mm high. NFX or cement bricks (14 MPa). Area: 64m x 800mm App. 6500 bricks (incl. 5% breakage). This includes 6 rolls of 20m x 150mm x 2.8mm brickforce installed at every <b>second</b> course. Bags of PPC cement: 20 Building sand: 4.5m <sup>3</sup>	m <sup>2</sup>	53	R	R
B.3.2	PPS MS 4.2	Outer walls: Double brick (230mm). Red burnt Clay plaster bricks App 18500 bricks, incl. 5% breakage) PPC Cement: 60 bags. Building sand: 13m <sup>3</sup> This item includes 36 rolls of 20m x 150mm x 2.8mm brickforce installed in every <b>third</b> course (below lintel level) and every <b>second</b> course (above lintels)	m <sup>2</sup>	160	R	R
B.3.3	PPS MS 4.5	Plaster work (15mm) inside & outside - 174m <sup>2</sup> . Includes Interior walls. Materials & labour. PPC cement: 35 bags Plaster sand: 7.0m <sup>3</sup>	m <sup>2</sup>	1		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

### SECTION B: WOOL SHED (CTD)

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.3.4	PPS MS 4.3	Inner walls: M150 blocks (150x) (incl. 5% breakage). Materials: 0.25m <sup>3</sup> of building sand. 2 bags of cement. 2 rolls of 20m x 150mm x 2.8mm brickforce installed at every second course	Sum.	1	R	R
B.3.4	PPS MS 4.4	Ventilation bricks - 190mm	No.	14	R	R
B.3.5	PPS MS 4.5	Plasterwork to all walls (320m <sup>2</sup> ) including dip tank (35m <sup>2</sup> ), both sides 10mm thick.	m <sup>2</sup>	355	R	R
<b>B.4</b>	<b>PPS F</b>	<b>WINDOWS, DOORS AND FITTINGS</b>				
B.4.1	PPS F 7.1	Durowin Code SS33 (1 445mm x 987mm) windows, fitted and glazed (floated glass, 4mm thick)	No.	10	R	R
B.4.2	PPS F 7.2	Steel door frames: 2 032mm x 813mm x 234mm	No.	3	R	R
B.4.3	PPS F 7.2	Steel door frame: 2 032mm x 813mm x 154mm	No.	1	R	R
B.4.4	PPS F 7.3	Solid fully meranti 4/8 panel hard wood <b>stable</b> doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.3	Solid fully meranti 4/8 panel hard wood doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.4	Guillotine gate as per Drawing 7 A & B (SHP/RDN/2020/033) –PPS F5	No.	2	R	R
B.4.6	PPS F 7.5	Industrial heavy duty roll-up steel door Dimensions: 2100mm x 2 300mm) - PPS F4	No.	2	R	R
B.4.7	PPS F 7.6	5 000 litre polyethylene plastic tank, fittings, valves and anchored to tank base PPS F6	No.	2	R	R
B.4.8	PPS F 7.7	Tank base complete (Drawing 14)	No.	2	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

### SECTION B: WOOL SHED (CTD)

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
B.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer	m <sup>2</sup>	340	R	R
B.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat	m <sup>2</sup>	340	R	R
B.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA	m <sup>2</sup>	340	R	R
B.5.4	PPS P 6.4	Windows: 1 Coat Steel Primer and two (2) coats enamel paint to windows code SS33 (1 445mm x 987mm)	No.	10	R	R
B.5.5	PPS P 6.4	Door frames: 1 Coat steel primer and two (2) coats enamel paint to steel door frames (2 032mm x 813mm x <b>234</b> mm)	No.	3	R	R
B.5.6	PPS P 6.4	Door frame: 1 Coat steel primer and two (2) coats enamel paint to steel door frame 2032mm x 813mm x <b>154</b> m	No.	1	R	R
B.5.7	PPS P 6.5	Doors: 2 Coats exterior UV resistant varnish	No.	4	R	R
B.5.8	PPS P 6.6	Painting of purpose made guillotine gates as per Drawing 07 (SHP/RDN/2020/032). Two coats of red oxide steel primer	No.	2	R	R
<b>B.6</b>	<b>PPS R</b>	<b>ROOF</b>				
B.6.1	PPS R11.1	Roof structure complete, designed, fitted and certified. Including trusses (PPS R1 & 2), purlins & hurricane clips (R3).	Sum	=====	=====	R
B.6.2	PPS R 11.2	Chromadek & polycarbonate (10x) roof sheets as per PPS R8.1 - 8.5, supplied & fitted as per Drawing 4 (SHP/RDN/2020/028	Sum	=====	=====	R
B.6.3	PPS R 11.3	155mm x 100mm Industrial Ogee Aluminium Seamless gutters completed and fitted (R7)	m	41.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**2. KOPANANG, GREATER KOKSTAD****SECTION B – WOOLSHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.6.4	PPS R 11.4	105mm x 75mm Aluminium down pipes completed and fitted (R7)	Lump Sum	=====	=====	R
B.6.5	PPS R 11.5	Fibre-cement barge board (PPS R5) (225 x 80 x 10mm) and fascia boards (R4) (225 x 10), completed and fitted.	Sum	=====	=====	R
B.6.6	PPS R11.6	Alufoil insulation (PPS R9)	m <sup>2</sup>	150	R	R
B.6.7	PPS R11.7	Metal turbine ventilator 300mm throat	No.	2	R	R
B.6.8	PPS R11.6	Ceiling for office. Complete as per PPS R10. See Drawing 06 (SHP/RDN/2020/031)	Lump Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	



**2. KOPANANG, GREATER KOKSTAD**

**SECTION C: VIP LATRINE (2 X)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
C.1.1		EXCAVATIONS				
C.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	32.0	R	R
C.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and mount and dispose of excess materials	m <sup>3</sup>	14.0	R	R
C.1.2		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
C.1.2.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	=====	R	Rates only
C.1.2.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	=====	R	Rates only
<b>C.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
C.2.1	PPS C 17.2	Mass concrete pit floors - 20 MPa to foundations. 2.70m x 2.70m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.2	PPS C 17.4	Reinforced concrete slab - 30 MPa floor to Pit Toilet 3.20m x 2.30m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.3	PPS C 17.5	Steel reinforcement to concrete slab. Ref 395 – two sheets. See Drawing 15.	Sum	=====	=====	
C.2.4	PPS C 17.6.2	DPC 375 micron to 150mm wide walls	m	20.0	R	R
C.2.5		Pre-stressed concrete lintels				
C.2.5.1	PPS C 17.3	1.50m x 140mm x 75mm lintels to doors	No.	2	R	R
<b>C.3</b>	<b>PPS MS</b>	<b>MASONRY WORKS</b>				
C.3.1	PPS MS 4.3	Pit and superstructure walls: M150mm cement blocks. 2 x 300 = 600 blocks. 14.4 m <sup>2</sup> (pit) + 10.8 m <sup>2</sup> (superstructure) = 25.2m <sup>2</sup> per toilet	m <sup>2</sup>	50.4	R	R
C.3.2	PPS MS 4.5	Plasterwork (10mm thick) for superstructure <i>only</i> on inside and outside. 21.6m <sup>2</sup> per toilet	m <sup>2</sup>	43.2	R	R
<sup>1</sup> All quantities are for 2 latrines <<<						
<b>Total Carried Forward to Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

## SECTION C: PIT TOILET (CTD)

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.4</b>	<b>PPS F</b>	<b>DOORS AND FITTINGS</b>				
C.4.1	PPS F 7.2	<b>Meranti</b> (dimensions as per drawing) doorframe OR Heavy duty <b>steel</b> doorframe (14 ga/1.6mm min. Dimensions: 2 032mm x 813mm x 150mm (PPS-F2)	No.	2	R	R
C.4.2	PPS F 7.3	Pine ledged and braced batten door 1750/1850 x 760 x 40 mm (battens and braces to be 20mm thick) (PPS - PT5)	No.	2	R	R
C.4.3	PPS PT 5.2	Pedestal: Plastic. With toilet seat & cover. Height: 500mm high. PPS – PT3	No.	2	R	R
C.4.4	PPS PT 5.3	Ventilation pipes: 3m x 110mm PVC – Black PPS – PT4	No.	2	R	R
<b>C.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
C.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer Spreading rate: 8m <sup>2</sup> /L. Required: 6L.	m <sup>2</sup>	43.2	R	R
C.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat Spreading rate: 6m <sup>2</sup> /L. required: 8L.	m <sup>2</sup>	43.2	R	R
C.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA (off-white/beige) Spreading rate: 9m <sup>2</sup> Required: 10L.	m <sup>2</sup>	43.2	R	R
C.5.4	PPS P 6.4	<u>Door frames (steel)</u> : 1 Coat steel primer (1L) and two (2) coats enamel paint (1L) OR <u>Doorframes (meranti)</u> : 3 coats of varnish (light oak). 1 <sup>st</sup> & 2 <sup>nd</sup> diluted with tur-pentine 25% & 10% respectively). Req'd: 1L	No.	2.0	R	R
C.5.5	PPS P 6.5	<u>Doors</u> : 3 Coats exterior UV resistant varnish. 3 coats (1 <sup>st</sup> & 2 <sup>nd</sup> diluted). Required: 3L.	No.	2.0	R	R
<b>C.6</b>	<b>PPS PT</b>	<b>ROOF</b>				
B.6.1	PPS PT 6.1	Roof structure complete, fitted and certified	Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

### SECTION D: DIP TANK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>D.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
D.1.1		EXCAVATIONS				
D.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	27	R	R
D.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and dispose of excess materials	m <sup>3</sup>	13.8	R	R
D.1.1.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
D.1.1.3.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	TBA	R	Rates only
D.1.1.3.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	TBA	R	Rates only
<b>D.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
D.2.1	PPS C 17.4	Reinforced concrete floor and steps for diptank- 25 MPa dipping facility as per Drawing 9 – SHP/RDN/2020/031. Including steel reinforcement (mesh, rebar and angle iron with fish tails). PPS-D2	m <sup>3</sup>	1.9	R	R
D.2.3	PPS C 17.1	20MPa/19mm mass concrete slabs 100mm thick for entry and exit areas around diptank. 14 + 15 = 29 m <sup>2</sup> in total. PPS D4	m <sup>3</sup>	2.9	R	R
<b>D.3</b>	<b>PPS MS</b>	<b>MASONRY WORK</b>				
D.3.1	PPS MS 4.2	Dip Tank walls: 230mm - Burnt Clay brick walls. 25m <sup>2</sup> @ 55bricks/m <sup>2</sup> = 2665 bricks	Lump Sum	=====	=====	R
D.3.2	PPS MS 4.6	Smooth formwork to vertical plane for diptank steps (21 steps + chamfering lats)	m <sup>2</sup>	10.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

## SECTION E: SECURITY FENCING

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
E.1.1		EXCAVATIONS				
E.1.1.1	PPS EW 4	Excavate in all materials for fence posts and stays and dispose of excess materials	m³	5.2		
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
		<i>Fence description: 1.80m high weld mesh fence with barbed wire and 500mm flat wrap razor coils on top. Total height: 2.2m. Corner and gate posts to be round steel tubing, with 2.4m Y-standards at 2.5m centres as intermediate posts. Total length: 125m</i>				
E.2.1	PPS SF6.1	Labour and supervision costs for the erection of a 2.3m high standard security fence around the premises as per Drawings 10, 11 & 13.	Lump Sum	=====	=====	R
E.2.2		Extra-over on Item E.2.1 for the supply and delivery of:				
E.2.2.1	PPS SF6.2	Corner / Gate posts (fully galv. mild steel post, capped. Dimensions: 3.00m x 100mm OD x 3.1mm – PPS SF2.1	No.	6		
E.2.2.2	PPS SF6.2	Intermediate posts (fully galvanized mild steel posts, capped. Dim.3.00m x 90mm OD x 2.5mm. PPS SF2.2	No.	13		
E.2.2.3	PPS SF6.2	Stays (fully galvanized mild steel stays, Dim. 2.4m x 48mm OD x 2.5mm. PPS SF2.3	No.	35		
E.2.2.4	PPS SF6.2	Steel Y-section iron standards – 2.4m.SF2.4	No.	30		
E.2.2.5	PPS SF6.2	4mm fully galv. mild steel zinc coated wire - 5kg/50m rolls. PPS SF3.1	No.	10		
E.2.2.6	PPS SF6.2	2.5mm "Iowa"-type double strand fully galv. mild steel barbed wire - 540m roll. SF3.1	No.	1		
E.2.2.7	PPS SF6.2	1830mm x 100mm x 50mm x 2.5mm welded mesh, 30m roll. PPS SF3.1	No.	5		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

**SECTION E: SECURITY FENCING (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
E.2.2.8	PPS SF6.2	Razor flat wrap coils 500mm x 15m roll. PPS/SF3.2	No.	9		
E.2.2.9	PPS SF6.2	1.6mm fully galvanized mild steel zinc coated binding wire - 50kg roll. PPS SF3.1	No.	2		
E.2.2.10	PPS SF6.3	Double leafed/framed heavy duty entry gate 3.6m x 2.3m as per PPS SF4 & Drawing 13B (FEN/RDN/2020/038), including concrete footings (0.5m <sup>3</sup> ). PPS SF4	No.	1		
E.2.2.11	PPS C17.1	15 MPa/13mm concrete footing for the security fencing posts, but excluding the footings for the main gate. PPS SF5 Materials: 28 bags of cement. Sand: 2.7m <sup>3</sup> . 13mm stone: 3.2m <sup>3</sup> .	m <sup>3</sup>	5.2		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

### SECTION F: ANIMAL HANDLING FACILITIES

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>F.1</b>		<b>FENCING</b>				
F.1.1	PPS HF3.1	CCA treated gate & corner poles: 1.80m x 100/125mm		25		
F.1.2	PPS HF3.1	CCA treated box & intermediate posts: 1.80m x 75/100mm		66		
F.1.3	PPS HF3.1	CCA treated poles 1.50m x 75/100mm		13		
F.1.4	PPS HF3.1	CCA treated braces 900mm (24*1.80m x 75/100mm) cut in two pieces		13		
F.1.5	PPS HF3.1	CCA treated laterals 3.60m x 75/100mm		5		
F.1.6	PPS HF3.1	Hinged joint fencing (galv.) top hor. strand closer than bottom ones 1.20m with verticals at 150mm. Rolls of 30m length		3		
F.1.7	PPS HF3.1	High tensile steel wire 2.25mm. Rolls of 5kg/130m		4		
F.1.8	PPS HF3.1	Staples 25mmx 2.5mm - Packs of 0.5kg/225/pk		5		
F.1.9	PPS HF3.1	Hoop iron (galv.) 400 x 30 x 1.0mm		17		
F.1.10	PPS HF3.1	15 MPa/13mm concrete for 67 footings 400 x 400 x 600mm. Total volume cured: 6.3m <sup>3</sup> Cement: 29 bags <> Sand: 3.1m <sup>3</sup> <> Stone (13mm): 4.1m <sup>3</sup>	m <sup>3</sup>	6.3		
<b>F.2</b>		<b>GATES</b>				
F.2.1	PPS HF3.2	Heavy duty farm gate, 2.4m x 1.2m	No.	3		
F.2.2	PPS HF3.2	Heavy duty farm gate, 1.2m x 1.2m	No.	10		
F.2.3	PPS HF3.2	Heavy duty farm gate, 0.9m x 1.2m	No.	8		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 2. KOPANANG, GREATER KOKSTAD

## SECTION G: ADDITIONAL WORK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G.1		CONSTRUCTION OF A CUT OFF DRAIN  <i>Description: cutting and compaction of a cut off V-drain above the woolshed. See PPS AW1 &amp; Figure 10.</i>				
G.1.1	PPS AW2	Cutting of a V-drain of 3m wide and 75-100m long above the woolshed	m³	50		
G.1.2	PPS AW2	Compaction of the V-drain to 90% Mod AASHTo	m²	250		
G.1.3	PPS A.3.3	Compaction testing	=As=	=per=	===A.3.3==	=====
Total Carried Forward To Summary >>					R	

### 3. MARHAMBENI, GREATER KOKSTAD

#### SUMMARY OF SECTIONS

SECTION	PAGE NO.	DESCRIPTION	AMOUNT (RAND)
<b>1</b>	<b>1</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
	<b>2</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
<b>2</b>	<b>3</b>	<b>SECTION B: WOOLSHED</b>	<b>R.....</b>
	<b>4</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>5</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>6</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>7</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
<b>3</b>	<b>8</b>	<b>SECTION C: PIT TOILET</b>	<b>R.....</b>
	<b>9</b>	<b>SECTION C: PIT TOILET (CTD)</b>	<b>R.....</b>
<b>4</b>	<b>10</b>	<b>SECTION D: DIP TANK</b>	<b>R.....</b>
<b>5</b>	<b>11</b>	<b>SECTION E: SECURITY FENCING</b>	<b>R.....</b>
	<b>12</b>	<b>SECTION E: SECURITY FENCING (CTD)</b>	<b>R.....</b>
<b>6</b>	<b>13</b>	<b>SECTION F: ANIMAL HANDLING FACILITIES</b>	<b>R.....</b>
<b>7</b>	<b>14</b>	<b>SECTION G: ADDITIONAL WORK</b>	<b>R.....</b>
<b>Total Carried Forward To Summary Of Schedules &gt;&gt;</b>			<b>R</b>



---

**3. MARHAMBENI, GREATER KOKSTAD**


---

**SUMMARY OF SCHEDULES**

<b>SCHEDULE</b>	<b>DESCRIPTION</b>	<b>AMOUNT (RAND)</b>
1	SHEARING SHED – SUBTOTAL OF SUMMARY PAGE	R.....
2	Contingencies 10%	R.....
<b>SUBTOTAL</b>		R.....
3	<b>VAT 15%</b>	R.....
	<b>TOTAL</b>	R.....

**3. MARHAMBENI, GREATER KOKSTAD**

**SECTION A: PRELIMINARY AND GENERAL**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A .1</b>	<b>8.3</b>	<b>FIXED-CHARGE ITEMS</b>				
A .1.1	8.3.1	Contractual Requirements	Sum	=====	=====	R
A.1.2	8.3.2	Establish Facilities on the Site :				
		a) Facilities for Contractor				
A.1.2.1		Offices and storage sheds	Sum	=====	=====	R
A.1.2.2		Ablution and latrine facilities	Sum	=====	=====	R
A.1.2.3		Water supplies, electric power and communications	Sum	=====	=====	R
A.1.2.4		Plant, tools and equipment Applicable only to specifically identified plant.	Sum	=====	=====	R
A.1.2.5	8.3.3	Other fixed-charge obligations	Sum	=====	=====	R
A.1.2.6	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	=====	=====	R
<b>A.2</b>	<b>8.4</b>	<b>TIME-RELATED ITEMS</b>				
A.2.1	8.4.1	Contractual Requirements	Sum	=====	=====	R
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Contractor for duration of construction, except where otherwise stated				
A.2.2		Offices and storage sheds	Sum	=====	=====	R
A.2.3		Ablution and latrine facilities	Sum	=====	=====	R
A.2.4		Plant, Tools and equipment	Sum	=====	=====	R
A.2.5		Water supplies, electric power and	Sum	=====	=====	R
A.2.7	8.4.4	Company and head office overhead costs	Sum	=====	=====	R
A.2.8	8.4.5	Other time-related obligations	Sum	=====	=====	R
<b>Total Carried Forward To Summary Page&gt;&gt;</b>					<b>R</b>	

**3. MARHAMBENI, GREATER KOKSTAD**

**SECTION A: PRELIMINARY AND GENERAL (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.3</b>	<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
	8.5	For work to be done by Contractor				
A.3.1		a) Allow for provisional sum for repairs to damaged services which could have been reasonably foreseen	Prov. Sum	=====	=====	R 20,000.00
A.3.2		b) Overheads, charges and profit on item A.3.1. Percentage tendered >>: .....%	Prov. Sum	=====	=====	R
	8.5	For work done by Nominated Sub-Contractor				
A.3.3		Density tests of all soil compactions on instruction by Engineer	Prov. Sum	=====	=====	R 12,000.00
A.3.4		Overheads, charges and profit on Item A.3.3. Percentage tendered >>.....%	Prov. Sum	=====	=====	R
A.3.5	PPS D 9.2	Water connection between plastic water tanks and dip tank and to pressurised water source (municipal or other)	Prov. Sum	=====	=====	R 18 000.00
A.3.6		Overheads, charges and profit on item A.3.7 Percentage tendered >>.....%	Prov. Sum	=====	=====	R
	8.7	Dayworks				
A.3.7		<u>Plant</u> Designated plant or plant for designated operations or plant for use during stated periods. Applicable only to specifically identified plant.	Sum	=====	=====	R
<b>A.4</b>	<b>PAM</b>	<b>OCCUPATIONAL HEALTH &amp; SAFETY ACT</b>				
A.4.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====	R
A.4.2	PAM 8.2.2	Time related obligations to comply with the OHS Act Construction Regulations	Month	6	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**3. MARHAMBENI, GREATER KOKSTAD****SECTION B: WOOL SHED**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
B.1.1		SITE CLEARANCE				
B.1.1.1	PPS EW1,2	Clear and grub site. Dimensions: 40m x 25m	m <sup>2</sup>	1000	R	R
B.1.2		EXCAVATIONS				
B.1.2.1	PPS EW 3	Remove topsoil and stockpile (site + road)	m <sup>3</sup>	15	R	R
B.1.2.2	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials Foundations 65m x 600mm (w) x 800mm (d)	m <sup>3</sup>	35	R	R
B.1.2.3	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials - Leveling	m <sup>3</sup>	240	R	R
B.1.2.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
B.1.2.3.1	PPS EW 3	Intermediate excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.2.3.2	PPS EW 3	Hard Rock excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.3		SUBGRADE FILLING AND COMPACTION				
B.1.3.1	PPS EW 4	Filling and compaction of selected excavated material to 95% Mod AASHTO	m <sup>3</sup>	65.0	R	R
B.1.3.2	PPS EW 4	Filling and compaction of imported G5 material (150mm thick) to 95% Mod AASHTO.	m <sup>3</sup>	45.0	R	R
B.1.3.3	PPS EW 6	Filling and compaction of river sand for dip floor bedding and behind wall	m <sup>3</sup>	2.0	R	R
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
B.2.1	PPS C 17.1	Mass concrete - 20 MPa to foundations 725 x 250mm (ext.) & 500 x 250mm (int.)	m <sup>3</sup>	11.7	R	R
B.2.2	PPS C 17.2	Mass concrete - 25 MPa to Floors, Ramp and Apron	m <sup>3</sup>	23.0	R	R
B.2.3	PPS C 17.6	Damp proof membrane 375 micron to floors	m <sup>2</sup>	175	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**3. MARHAMBENI, GREATER KOKSTAD**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS (CTD)</b>				
B.2.4	PPS C 17.7	Damp proof membrane 375 micron to 220mm wide walls	m	65.0	R	R
B.2.5	PPS C 17.3	Pre-stressed concrete lintels				
B.2.5.1		0.9m x 105mm x 70/75mm lintels to sliding gates. Two doors x 2 lintels.	No.	4	R	R
B.2.5.2		1.5m x 105mm x 70/75mm lintels to windows 10 windows x 2 lintels.	No.	20	R	R
B.2.5.3		1.5m x 105mm x 70/75mm lintels to doors. 4 doors x 2 lintels.	No.	8	R	R
B.2.5.4		2.7 (min.) x 140/145mm x 70/75mm lintels to roll-up doors. Two roll up doors x 3 lintels	No.	6	R	R
B.3.1	PPS MS 4.1	Foundation walls: Double brick 220mm, 800mm high (9 -10 courses). Includes ramps of 300mm high. NFX or cement bricks (14 MPa). Area: 64m x 800mm App. 6500 bricks (incl. 5% breakage). This includes 6 rolls of 20m x 150mm x 2.8mm brickforce installed at every <b>second</b> course. Bags of PPC cement: 20 Building sand: 4.5m <sup>3</sup>	m <sup>2</sup>	53	R	R
B.3.2	PPS MS 4.2	Outer walls: Double brick (230mm). Red burnt Clay plaster bricks App 18500 bricks, incl. 5% breakage) PPC Cement: 60 bags. Building sand: 13m <sup>3</sup> This item includes 36 rolls of 20m x 150mm x 2.8mm brickforce installed in every <b>third</b> course (below lintel level) and every <b>second</b> course (above lintels)	m <sup>2</sup>	160	R	R
B.3.3	PPS MS 4.5	Plaster work (15mm) inside & outside - 174m <sup>2</sup> . Includes Interior walls. Materials & labour. PPC cement: 35 bags Plaster sand: 7.0m <sup>3</sup>	m <sup>2</sup>	1		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**3. MARHAMBENI, GREATER KOKSTAD**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.3.4	PPS MS 4.3	Inner walls: M150 blocks (150x) (incl. 5% breakage). Materials: 0.25m <sup>3</sup> of building sand. 2 bags of cement. 2 rolls of 20m x 150mm x 2.8mm brickforce installed at every second course	Sum.	1	R	R
B.3.4	PPS MS 4.4	Ventilation bricks - 190mm	No.	14	R	R
B.3.5	PPS MS 4.5	Plasterwork to all walls (320m <sup>2</sup> ) including dip tank (35m <sup>2</sup> ), both sides 10mm thick.	m <sup>2</sup>	355	R	R
<b>B.4</b>	<b>PPS F</b>	<b>WINDOWS, DOORS AND FITTINGS</b>				
B.4.1	PPS F 7.1	Durowin Code SS33 (1 445mm x 987mm) windows, fitted and glazed (floated glass, 4mm thick)	No.	10	R	R
B.4.2	PPS F 7.2	Steel door frames: 2 032mm x 813mm x 234mm	No.	3	R	R
B.4.3	PPS F 7.2	Steel door frame: 2 032mm x 813mm x 154mm	No.	1	R	R
B.4.4	PPS F 7.3	Solid fully meranti 4/8 panel hard wood <b>stable</b> doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.3	Solid fully meranti 4/8 panel hard wood doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.4	Guillotine gate as per Drawing 7 A & B (SHP/RDN/2020/033) –PPS F5	No.	2	R	R
B.4.6	PPS F 7.5	Industrial heavy duty roll-up steel door Dimensions: 2100mm x 2 300mm) - PPS F4	No.	2	R	R
B.4.7	PPS F 7.6	5 000 litre polyethylene plastic tank, fittings, valves and anchored to tank base PPS F6	No.	2	R	R
B.4.8	PPS F 7.7	Tank base complete (Drawing 14)	No.	2	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**3. MARHAMBENI, GREATER KOKSTAD**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
B.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer	m²	340	R	R
B.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat	m²	340	R	R
B.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA	m²	340	R	R
B.5.4	PPS P 6.4	Windows: 1 Coat Steel Primer and two (2) coats enamel paint to windows code SS33 (1 445mm x 987mm)	No.	10	R	R
B.5.5	PPS P 6.4	Door frames: 1 Coat steel primer and two (2) coats enamel paint to steel door frames (2 032mm x 813mm x <b>234</b> mm)	No.	3	R	R
B.5.6	PPS P 6.4	Door frame: 1 Coat steel primer and two (2) coats enamel paint to steel door frame 2032mm x 813mm x <b>154</b> m	No.	1	R	R
B.5.7	PPS P 6.5	Doors: 2 Coats exterior UV resistant varnish	No.	4	R	R
B.5.8	PPS P 6.6	Painting of purpose made guillotine gates as per Drawing 07 (SHP/RDN/2020/032). Two coats of red oxide steel primer	No.	2	R	R
<b>B.6</b>	<b>PPS R</b>	<b>ROOF</b>				
B.6.1	PPS R11.1	Roof structure complete, designed, fitted and certified. Including trusses (PPS R1 & 2), purlins & hurricane clips (R3).	Sum	=====	=====	R
B.6.2	PPS R 11.2	Chromadek & polycarbonate (10x) roof sheets as per PPS R8.1 - 8.5, supplied & fitted as per Drawing 4 (SHP/RDN/2020/028	Sum	=====	=====	R
B.6.3	PPS R 11.3	155mm x 100mm Industrial Ogee Aluminium Seamless gutters completed and fitted (R7)	m	41.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

3. MARHAMBENI, GREATER KOKSTAD						
SECTION B – WOOLSHED (CTD)						
ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.6.4	PPS R 11.4	105mm x 75mm Aluminium down pipes completed and fitted (R7)	Lump Sum	=====	=====	R
B.6.5	PPS R 11.5	Fibre-cement barge board (PPS R5) (225 x 80 x 10mm) and fascia boards (R4) (225 x 10), completed and fitted.	Sum	=====	=====	R
B.6.6	PPS R11.6	Alufoil insulation (PPS R9)	m <sup>2</sup>	150	R	R
B.6.7	PPS R11.7	Metal turbine ventilator 300mm throat	No.	2	R	R
B.6.8	PPS R11.6	Ceiling for office. Complete as per PPS R10. See Drawing 06 (SHP/RDN/2020/031)	Lump Sum	=====	=====	R
Total Carried Forward To Summary >>					R	



**3. MARHAMBENI, GREATER KOKSTAD**

**SECTION C: VIP LATRINE (2 X)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
C.1.1		EXCAVATIONS				
C.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	32.0	R	R
C.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and mount and dispose of excess materials	m <sup>3</sup>	14.0	R	R
C.1.2		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
C.1.2.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	=====	R	Rates only
C.1.2.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	=====	R	Rates only
<b>C.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
C.2.1	PPS C 17.2	Mass concrete pit floors - 20 MPa to foundations. 2.70m x 2.70m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.2	PPS C 17.4	Reinforced concrete slab - 30 MPa floor to Pit Toilet 3.20m x 2.30m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.3	PPS C 17.5	Steel reinforcement to concrete slab. Ref 395 – two sheets. See Drawing 15.	Sum	=====	=====	
C.2.4	PPS C 17.6.2	DPC 375 micron to 150mm wide walls	m	20.0	R	R
C.2.5		Pre-stressed concrete lintels				
C.2.5.1	PPS C 17.3	1.50m x 140mm x 75mm lintels to doors	No.	2	R	R
<b>C.3</b>	<b>PPS MS</b>	<b>MASONRY WORKS</b>				
C.3.1	PPS MS 4.3	Pit and superstructure walls: M150mm cement blocks. 2 x 300 = 600 blocks. 14.4 m <sup>2</sup> (pit) + 10.8 m <sup>2</sup> (superstructure) = 25.2m <sup>2</sup> per toilet	m <sup>2</sup>	50.4	R	R
C.3.2	PPS MS 4.5	Plasterwork (10mm thick) for superstructure <i>only</i> on inside and outside. 21.6m <sup>2</sup> per toilet	m <sup>2</sup>	43.2	R	R
<sup>1</sup> All quantities are for 2 latrines <<<						
<b>Total Carried Forward to Summary &gt;&gt;</b>					<b>R</b>	

**3. MARHAMBENI, GREATER KOKSTAD**

**SECTION C: PIT TOILET (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.4</b>	<b>PPS F</b>	<b>DOORS AND FITTINGS</b>				
C.4.1	PPS F 7.2	<b>Meranti</b> (dimensions as per drawing) doorframe OR Heavy duty <b>steel</b> doorframe (14 ga/1.6mm min. Dimensions: 2 032mm x 813mm x 150mm (PPS-F2)	No.	2	R	R
C.4.2	PPS F 7.3	Pine ledged and braced batten door 1750/1850 x 760 x 40 mm (battens and braces to be 20mm thick) (PPS - PT5)	No.	2	R	R
C.4.3	PPS PT 5.2	Pedestal: Plastic. With toilet seat & cover. Height: 500mm high. PPS – PT3	No.	2	R	R
C.4.4	PPS PT 5.3	Ventilation pipes: 3m x 110mm PVC – Black PPS – PT4	No.	2	R	R
<b>C.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
C.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer Spreading rate: 8m <sup>2</sup> /L. Required: 6L.	m <sup>2</sup>	43.2	R	R
C.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat Spreading rate: 6m <sup>2</sup> /L. required: 8L.	m <sup>2</sup>	43.2	R	R
C.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA (off-white/beige) Spreading rate: 9m <sup>2</sup> Required: 10L.	m <sup>2</sup>	43.2	R	R
C.5.4	PPS P 6.4	<u>Door frames (steel)</u> : 1 Coat steel primer (1L) and two (2) coats enamel paint (1L) OR <u>Doorframes (meranti)</u> : 3 coats of varnish (light oak). 1 <sup>st</sup> & 2 <sup>nd</sup> diluted with tur-pentine 25% & 10% respectively). Req'd: 1L	No.	2.0	R	R
C.5.5	PPS P 6.5	<u>Doors</u> : 3 Coats exterior UV resistant varnish. 3 coats (1 <sup>st</sup> & 2 <sup>nd</sup> diluted). Required: 3L.	No.	2.0	R	R
<b>C.6</b>	<b>PPS PT</b>	<b>ROOF</b>				
B.6.1	PPS PT 6.1	Roof structure complete, fitted and certified	Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

### 3. MARHAMBENI, GREATER KOKSTAD

#### SECTION D: DIP TANK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>D.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
D.1.1		EXCAVATIONS				
D.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	27	R	R
D.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and dispose of excess materials	m <sup>3</sup>	13.8	R	R
D.1.1.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
D.1.1.3.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	TBA	R	Rates only
D.1.1.3.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	TBA	R	Rates only
<b>D.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
D.2.1	PPS C 17.4	Reinforced concrete floor and steps for diptank- 25 MPa dipping facility as per Drawing 9 – SHP/RDN/2020/031. Including steel reinforcement (mesh, rebar and angle iron with fish tails). PPS-D2	m <sup>3</sup>	1.9	R	R
D.2.3	PPS C 17.1	20MPa/19mm mass concrete slabs 100mm thick for entry and exit areas around diptank. 14 + 15 = 29 m <sup>2</sup> in total. PPS D4	m <sup>3</sup>	2.9	R	R
<b>D.3</b>	<b>PPS MS</b>	<b>MASONRY WORK</b>				
D.3.1	PPS MS 4.2	Dip Tank walls: 230mm - Burnt Clay brick walls. 25m <sup>2</sup> @ 55bricks/m <sup>2</sup> = 2665 bricks	Lump Sum	=====	=====	R
D.3.2	PPS MS 4.6	Smooth formwork to vertical plane for diptank steps (21 steps + chamfering lats)	m <sup>2</sup>	10.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

### 3. MARHAMBENI, GREATER KOKSTAD

#### SECTION E: SECURITY FENCING

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
E.1.1		EXCAVATIONS				
E.1.1.1	PPS EW 4	Excavate in all materials for fence posts and stays and dispose of excess materials	m <sup>3</sup>	5.2		
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
		<i>Fence description: 1.80m high weld mesh fence with barbed wire and 500mm flat wrap razor coils on top. Total height: 2.2m. Corner and gate posts to be round steel tubing, with 2.4m Y-standards at 2.5m centres as intermediate posts. Total length: 125m</i>				
E.2.1	PPS SF6.1	Labour and supervision costs for the erection of a 2.3m high standard security fence around the premises as per Drawings 10, 11 & 13.	Lump Sum	=====	=====	R
E.2.2		Extra-over on Item E.2.1 for the supply and delivery of:				
E.2.2.1	PPS SF6.2	Corner / Gate posts (fully galv. mild steel post, capped. Dimensions: 3.00m x 100mm OD x 3.1mm – PPS SF2.1	No.	6		
E.2.2.2	PPS SF6.2	Intermediate posts (fully galvanized mild steel posts, capped. Dim.3.00m x 90mm OD x 2.5mm. PPS SF2.2	No.	13		
E.2.2.3	PPS SF6.2	Stays (fully galvanized mild steel stays, Dim. 2.4m x 48mm OD x 2.5mm. PPS SF2.3	No.	35		
E.2.2.4	PPS SF6.2	Steel Y-section iron standards – 2.4m.SF2.4	No.	30		
E.2.2.5	PPS SF6.2	4mm fully galv. mild steel zinc coated wire - 5kg/50m rolls. PPS SF3.1	No.	10		
E.2.2.6	PPS SF6.2	2.5mm "Iowa"-type double strand fully galv. mild steel barbed wire - 540m roll. SF3.1	No.	1		
E.2.2.7	PPS SF6.2	1830mm x 100mm x 50mm x 2.5mm welded mesh, 30m roll. PPS SF3.1	No.	5		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

### 3. MARHAMBENI, GREATER KOKSTAD

#### SECTION E: SECURITY FENCING (CTD)

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
E.2.2.8	PPS SF6.2	Razor flat wrap coils 500mm x 15m roll. PPS/SF3.2	No.	9		
E.2.2.9	PPS SF6.2	1.6mm fully galvanized mild steel zinc coated binding wire - 50kg roll. PPS SF3.1	No.	2		
E.2.2.10	PPS SF6.3	Double leafed/framed heavy duty entry gate 3.6m x 2.3m as per PPS SF4 & Drawing 13B (FEN/RDN/2020/038), including concrete footings (0.5m <sup>3</sup> ). PPS SF4	No.	1		
E.2.2.11	PPS C17.1	15 MPa/13mm concrete footing for the security fencing posts, but excluding the footings for the main gate. PPS SF5 Materials: 28 bags of cement. Sand: 2.7m <sup>3</sup> . 13mm stone: 3.2m <sup>3</sup> .	m <sup>3</sup>	5.2		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

### 3. MARHAMBENI, GREATER KOKSTAD

#### SECTION F: ANIMAL HANDLING FACILITIES

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>F.1</b>		<b>FENCING</b>				
F.1.1	PPS HF3.1	CCA treated gate & corner poles: 1.80m x 100/125mm		25		
F.1.2	PPS HF3.1	CCA treated box & intermediate posts: 1.80m x 75/100mm		66		
F.1.3	PPS HF3.1	CCA treated poles 1.50m x 75/100mm		13		
F.1.4	PPS HF3.1	CCA treated braces 900mm (24*1.80m x 75/100mm) cut in two pieces		13		
F.1.5	PPS HF3.1	CCA treated laterals 3.60m x 75/100mm		5		
F.1.6	PPS HF3.1	Hinged joint fencing (galv.) top hor. strand closer than bottom ones 1.20m with verticals at 150mm. Rolls of 30m length		3		
F.1.7	PPS HF3.1	High tensile steel wire 2.25mm. Rolls of 5kg/130m		4		
F.1.8	PPS HF3.1	Staples 25mmx 2.5mm - Packs of 0.5kg/225/pk		5		
F.1.9	PPS HF3.1	Hoop iron (galv.) 400 x 30 x 1.0mm		17		
F.1.10	PPS HF3.1	15 MPa/13mm concrete for 67 footings 400 x 400 x 600mm. Total volume cured: 6.3m <sup>3</sup> Cement: 29 bags <> Sand: 3.1m <sup>3</sup> <> Stone (13mm): 4.1m <sup>3</sup>	m <sup>3</sup>	6.3		
<b>F.2</b>		<b>GATES</b>				
F.2.1	PPS HF3.2	Heavy duty farm gate, 2.4m x 1.2m	No.	3		
F.2.2	PPS HF3.2	Heavy duty farm gate, 1.2m x 1.2m	No.	10		
F.2.3	PPS HF3.2	Heavy duty farm gate, 0.9m x 1.2m	No.	8		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 3. MARHAMBENI, GREATER KOKSTAD

## SECTION G: ADDITIONAL WORK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G.1		CONSTRUCTION OF A CUT OFF DRAIN				
		<i>Description: cutting and compaction of a cut off V-drain above the woolshed. See PPS AW1 &amp; Figure 10.</i>				
G.1.1	PPS AW2	Cutting of a V-drain of 3m wide and 75-100m long above the woolshed	m <sup>3</sup>	50		
G.1.2	PPS AW2	Compaction of the V-drain to 90% Mod AASHTo	m <sup>2</sup>	250		
G.1.3	PPS A.3.3	Compaction testing	=As=	=per=	===A.3.3==	=====
Total Carried Forward To Summary >>					R	

---

**4. MTSHIBENI, UMZIMKHULU**


---

**SUMMARY OF SECTIONS**

SECTION	PAGE NO.	DESCRIPTION	AMOUNT (RAND)
<b>1</b>	<b>1</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	R.....
	<b>2</b>	SECTION A: PRELIMINARY AND GENERAL	R.....
<b>2</b>	<b>3</b>	<b>SECTION B: WOOLSHED</b>	R.....
	<b>4</b>	SECTION B: WOOLSHED (CTD)	R.....
	<b>5</b>	SECTION B: WOOLSHED (CTD)	R.....
	<b>6</b>	SECTION B: WOOLSHED (CTD)	R.....
	<b>7</b>	SECTION B: WOOLSHED (CTD)	R.....
<b>3</b>	<b>8</b>	<b>SECTION C: PIT TOILET</b>	R.....
	<b>9</b>	SECTION C: PIT TOILET (CTD)	R.....
<b>4</b>	<b>10</b>	<b>SECTION D: DIP TANK</b>	R.....
<b>5</b>	<b>11</b>	<b>SECTION E: SECURITY FENCING</b>	R.....
	<b>12</b>	SECTION E: SECURITY FENCING (CTD)	R.....
<b>6</b>	<b>13</b>	<b>SECTION F: ANIMAL HANDLING FACILITIES</b>	R.....
<b>Total Carried Forward To Summary Of Schedules &gt;&gt;</b>			<b>R</b>



---

**4. MTSHIBENI, UMZIMKHULU**


---

**SUMMARY OF SCHEDULES**

<b>SCHEDULE</b>	<b>DESCRIPTION</b>	<b>AMOUNT (RAND)</b>
1	SHEARING SHED – SUBTOTAL OF SUMMARY PAGE	R.....
2	Contingencies 10%	R.....
<b>SUBTOTAL</b>		R.....
3	<b>VAT 15%</b>	R.....
	<b>TOTAL</b>	R.....

**4. MTSHIBENI, UMZIMKHULU**

**SECTION A: PRELIMINARY AND GENERAL**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.1</b>	<b>8.3</b>	<b>FIXED-CHARGE ITEMS</b>				
A.1.1	8.3.1	Contractual Requirements	Sum	=====	=====	R
A.1.2	8.3.2	Establish Facilities on the Site :				
		a) Facilities for Contractor				
A.1.2.1		Offices and storage sheds	Sum	=====	=====	R
A.1.2.2		Ablution and latrine facilities	Sum	=====	=====	R
A.1.2.3		Water supplies, electric power and communications	Sum	=====	=====	R
A.1.2.4		Plant, tools and equipment Applicable only to specifically identified plant.	Sum	=====	=====	R
A.1.2.5	8.3.3	Other fixed-charge obligations	Sum	=====	=====	R
A.1.2.6	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	=====	=====	R
<b>A.2</b>	<b>8.4</b>	<b>TIME-RELATED ITEMS</b>				
A.2.1	8.4.1	Contractual Requirements	Sum	=====	=====	R
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Contractor for duration of construction, except where otherwise stated				
A.2.2		Offices and storage sheds	Sum	=====	=====	R
A.2.3		Ablution and latrine facilities	Sum	=====	=====	R
A.2.4		Plant, Tools and equipment	Sum	=====	=====	R
A.2.5		Water supplies, electric power and	Sum	=====	=====	R
A.2.7	8.4.4	Company and head office overhead costs	Sum	=====	=====	R
A.2.8	8.4.5	Other time-related obligations	Sum	=====	=====	R
<b>Total Carried Forward To Summary Page&gt;&gt;</b>					<b>R</b>	

**4. MTSHIBENI, UMZIMKHULU**

**SECTION A: PRELIMINARY AND GENERAL (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.3</b>	<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
	8.5	For work to be done by Contractor				
A.3.1		a) Allow for provisional sum for repairs to damaged services which could have been reasonably foreseen	Prov. Sum	=====	=====	R 20,000.00
A.3.2		b) Overheads, charges and profit on item A.3.1. Percentage tendered >>: .....%	Prov. Sum	=====	=====	R
	8.5	For work done by Nominated Sub-Contractor				
A.3.3		Density tests of all soil compactions on instruction by Engineer	Prov. Sum	=====	=====	R 12,000.00
A.3.4		Overheads, charges and profit on Item A.3.3. Percentage tendered >>.....%	Prov. Sum	=====	=====	R
A.3.5	PPS D 9.2	Water connection between plastic water tanks and dip tank and to pressurised water source (municipal or other)	Prov. Sum	=====	=====	R 18 000.00
A.3.6		Overheads, charges and profit on item A.3.7 Percentage tendered >>.....%	Prov. Sum	=====	=====	R
	8.7	Dayworks				
A.3.7		<u>Plant</u> Designated plant or plant for designated operations or plant for use during stated periods. Applicable only to specifically identified plant.	Sum	=====	=====	R
<b>A.4</b>	<b>PAM</b>	<b>OCCUPATIONAL HEALTH &amp; SAFETY ACT</b>				
A.4.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====	R
A.4.2	PAM 8.2.2	Time related obligations to comply with the OHS Act Construction Regulations	Month	6	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**4. MTSHIBENI, UMZIMKHULU**

**SECTION B: WOOL SHED**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
B.1.1		SITE CLEARANCE				
B.1.1.1	PPS EW1,2	Clear and grub site. Dimensions: 40m x 25m	m <sup>2</sup>	1000	R	R
B.1.2		EXCAVATIONS				
B.1.2.1	PPS EW 3	Remove topsoil and stockpile (site + road)	m <sup>3</sup>	15	R	R
B.1.2.2	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials Foundations 65m x 600mm (w) x 800mm (d)	m <sup>3</sup>	35	R	R
B.1.2.3	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials - Leveling	m <sup>3</sup>	240	R	R
B.1.2.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
B.1.2.3.1	PPS EW 3	Intermediate excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.2.3.2	PPS EW 3	Hard Rock excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.3		SUBGRADE FILLING AND COMPACTION				
B.1.3.1	PPS EW 4	Filling and compaction of selected excavated material to 95% Mod AASHTO	m <sup>3</sup>	65.0	R	R
B.1.3.2	PPS EW 4	Filling and compaction of imported G5 material (150mm thick) to 95% Mod AASHTO.	m <sup>3</sup>	45.0	R	R
B.1.3.3	PPS EW 6	Filling and compaction of river sand for dip floor bedding and behind wall	m <sup>3</sup>	2.0	R	R
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
B.2.1	PPS C 17.1	Mass concrete - 20 MPa to foundations 725 x 250mm (ext.) & 500 x 250mm (int.)	m <sup>3</sup>	11.7	R	R
B.2.2	PPS C 17.2	Mass concrete - 25 MPa to Floors, Ramp and Apron	m <sup>3</sup>	23.0	R	R
B.2.3	PPS C 17.6	Damp proof membrane 375 micron to floors	m <sup>2</sup>	175	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**4. MTSHIBENI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS (CTD)</b>				
B.2.4	PPS C 17.7	Damp proof membrane 375 micron to 220mm wide walls	m	65.0	R	R
B.2.5	PPS C 17.3	Pre-stressed concrete lintels				
B.2.5.1		0.9m x 105mm x 70/75mm lintels to sliding gates. Two doors x 2 lintels.	No.	4	R	R
B.2.5.2		1.5m x 105mm x 70/75mm lintels to windows 10 windows x 2 lintels.	No.	20	R	R
B.2.5.3		1.5m x 105mm x 70/75mm lintels to doors. 4 doors x 2 lintels.	No.	8	R	R
B.2.5.4		2.7 (min.) x 140/145mm x 70/75mm lintels to roll-up doors. Two roll up doors x 3 lintels	No.	6	R	R
B.3.1	PPS MS 4.1	Foundation walls: Double brick 220mm, 800mm high (9 -10 courses). Includes ramps of 300mm high. NFX or cement bricks (14 MPa). Area: 64m x 800mm App. 6500 bricks (incl. 5% breakage). This includes 6 rolls of 20m x 150mm x 2.8mm brickforce installed at every <b>second</b> course. Bags of PPC cement: 20 Building sand: 4.5m <sup>3</sup>	m <sup>2</sup>	53	R	R
B.3.2	PPS MS 4.2	Outer walls: Double brick (230mm). Red burnt Clay plaster bricks App 18500 bricks, incl. 5% breakage) PPC Cement: 60 bags. Building sand: 13m <sup>3</sup> This item includes 36 rolls of 20m x 150mm x 2.8mm brickforce installed in every <b>third</b> course (below lintel level) and every <b>second</b> course (above lintels)	m <sup>2</sup>	160	R	R
B.3.3	PPS MS 4.5	Plaster work (15mm) inside & outside - 174m <sup>2</sup> . Includes Interior walls. Materials & labour. PPC cement: 35 bags Plaster sand: 7.0m <sup>3</sup>	m <sup>2</sup>	1		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**4. MTSHIBENI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.3.4	PPS MS 4.3	Inner walls: M150 blocks (150x) (incl. 5% breakage). Materials: 0.25m <sup>3</sup> of building sand. 2 bags of cement. 2 rolls of 20m x 150mm x 2.8mm brickforce installed at every second course	Sum.	1	R	R
B.3.4	PPS MS 4.4	Ventilation bricks - 190mm	No.	14	R	R
B.3.5	PPS MS 4.5	Plasterwork to all walls (320m <sup>2</sup> ) including dip tank (35m <sup>2</sup> ), both sides 10mm thick.	m <sup>2</sup>	355	R	R
<b>B.4</b>	<b>PPS F</b>	<b>WINDOWS, DOORS AND FITTINGS</b>				
B.4.1	PPS F 7.1	Durowin Code SS33 (1 445mm x 987mm) windows, fitted and glazed (floated glass, 4mm thick)	No.	10	R	R
B.4.2	PPS F 7.2	Steel door frames: 2 032mm x 813mm x 234mm	No.	3	R	R
B.4.3	PPS F 7.2	Steel door frame: 2 032mm x 813mm x 154mm	No.	1	R	R
B.4.4	PPS F 7.3	Solid fully meranti 4/8 panel hard wood <b>stable</b> doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.3	Solid fully meranti 4/8 panel hard wood doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.4	Guillotine gate as per Drawing 7 A & B (SHP/RDN/2020/033) –PPS F5	No.	2	R	R
B.4.6	PPS F 7.5	Industrial heavy duty roll-up steel door Dimensions: 2100mm x 2 300mm) - PPS F4	No.	2	R	R
B.4.7	PPS F 7.6	5 000 litre polyethylene plastic tank, fittings, valves and anchored to tank base PPS F6	No.	2	R	R
B.4.8	PPS F 7.7	Tank base complete (Drawing 14)	No.	2	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**4. MTSHIBENI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
B.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer	m <sup>2</sup>	340	R	R
B.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat	m <sup>2</sup>	340	R	R
B.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA	m <sup>2</sup>	340	R	R
B.5.4	PPS P 6.4	Windows: 1 Coat Steel Primer and two (2) coats enamel paint to windows code SS33 (1 445mm x 987mm)	No.	10	R	R
B.5.5	PPS P 6.4	Door frames: 1 Coat steel primer and two (2) coats enamel paint to steel door frames (2 032mm x 813mm x <b>234</b> mm)	No.	3	R	R
B.5.6	PPS P 6.4	Door frame: 1 Coat steel primer and two (2) coats enamel paint to steel door frame 2032mm x 813mm x <b>154</b> m	No.	1	R	R
B.5.7	PPS P 6.5	Doors: 2 Coats exterior UV resistant varnish	No.	4	R	R
B.5.8	PPS P 6.6	Painting of purpose made guillotine gates as per Drawing 07 (SHP/RDN/2020/032). Two coats of red oxide steel primer	No.	2	R	R
<b>B.6</b>	<b>PPS R</b>	<b>ROOF</b>				
B.6.1	PPS R11.1	Roof structure complete, designed, fitted and certified. Including trusses (PPS R1 & 2), purlins & hurricane clips (R3).	Sum	=====	=====	R
B.6.2	PPS R 11.2	Chromadek & polycarbonate (10x) roof sheets as per PPS R8.1 - 8.5, supplied & fitted as per Drawing 4 (SHP/RDN/2020/028	Sum	=====	=====	R
B.6.3	PPS R 11.3	155mm x 100mm Industrial Ogee Aluminium Seamless gutters completed and fitted (R7)	m	41.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**4. MTSHIBENI, UMZIMKHULU**

**SECTION B – WOOLSHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.6.4	PPS R 11.4	105mm x 75mm Aluminium down pipes completed and fitted (R7)	Lump Sum	=====	=====	R
B.6.5	PPS R 11.5	Fibre-cement barge board (PPS R5) (225 x 80 x 10mm) and fascia boards (R4) (225 x 10), completed and fitted.	Sum	=====	=====	R
B.6.6	PPS R11.6	Alufoil insulation (PPS R9)	m <sup>2</sup>	150	R	R
B.6.7	PPS R11.7	Metal turbine ventilator 300mm throat	No.	2	R	R
B.6.8	PPS R11.6	Ceiling for office. Complete as per PPS R10. See Drawing 06 (SHP/RDN/2020/031)	Lump Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	



**4. MTSHIBENI, UMZIMKHULU**

**SECTION C: VIP LATRINE (2 X)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
C.1.1		EXCAVATIONS				
C.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	32.0	R	R
C.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and mount and dispose of excess materials	m <sup>3</sup>	14.0	R	R
C.1.2		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
C.1.2.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	=====	R	Rates only
C.1.2.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	=====	R	Rates only
<b>C.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
C.2.1	PPS C 17.2	Mass concrete pit floors - 20 MPa to foundations. 2.70m x 2.70m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.2	PPS C 17.4	Reinforced concrete slab - 30 MPa floor to Pit Toilet 3.20m x 2.30m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.3	PPS C 17.5	Steel reinforcement to concrete slab. Ref 395 – two sheets. See Drawing 15.	Sum	=====	=====	
C.2.4	PPS C 17.6.2	DPC 375 micron to 150mm wide walls	m	20.0	R	R
C.2.5		Pre-stressed concrete lintels				
C.2.5.1	PPS C 17.3	1.50m x 140mm x 75mm lintels to doors	No.	2	R	R
<b>C.3</b>	<b>PPS MS</b>	<b>MASONRY WORKS</b>				
C.3.1	PPS MS 4.3	Pit and superstructure walls: M150mm cement blocks. 2 x 300 = 600 blocks. 14.4 m <sup>2</sup> (pit) + 10.8 m <sup>2</sup> (superstructure) = 25.2m <sup>2</sup> per toilet	m <sup>2</sup>	50.4	R	R
C.3.2	PPS MS 4.5	Plasterwork (10mm thick) for superstructure <i>only</i> on inside and outside. 21.6m <sup>2</sup> per toilet	m <sup>2</sup>	43.2	R	R
<sup>1</sup> All quantities are for 2 latrines <<<						
<b>Total Carried Forward to Summary &gt;&gt;</b>					<b>R</b>	

## 4. MTSHIBENI, UMZIMKHULU

## SECTION C: PIT TOILET (CTD)

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.4</b>	<b>PPS F</b>	<b>DOORS AND FITTINGS</b>				
C.4.1	PPS F 7.2	<b>Meranti</b> (dimensions as per drawing) doorframe OR Heavy duty <b>steel</b> doorframe (14 ga/1.6mm min. Dimensions: 2 032mm x 813mm x 150mm (PPS-F2)	No.	2	R	R
C.4.2	PPS F 7.3	Pine ledged and braced batten door 1750/1850 x 760 x 40 mm (battens and braces to be 20mm thick) (PPS - PT5)	No.	2	R	R
C.4.3	PPS PT 5.2	Pedestal: Plastic. With toilet seat & cover. Height: 500mm high. PPS – PT3	No.	2	R	R
C.4.4	PPS PT 5.3	Ventilation pipes: 3m x 110mm PVC – Black PPS – PT4	No.	2	R	R
<b>C.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
C.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer Spreading rate: 8m <sup>2</sup> /L. Required: 6L.	m <sup>2</sup>	43.2	R	R
C.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat Spreading rate: 6m <sup>2</sup> /L. required: 8L.	m <sup>2</sup>	43.2	R	R
C.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA (off-white/beige) Spreading rate: 9m <sup>2</sup> Required: 10L.	m <sup>2</sup>	43.2	R	R
C.5.4	PPS P 6.4	<u>Door frames (steel)</u> : 1 Coat steel primer (1L) and two (2) coats enamel paint (1L) OR <u>Doorframes (meranti)</u> : 3 coats of varnish (light oak). 1 <sup>st</sup> & 2 <sup>nd</sup> diluted with tur-pentine 25% & 10% respectively). Req'd: 1L	No.	2.0	R	R
C.5.5	PPS P 6.5	<u>Doors</u> : 3 Coats exterior UV resistant varnish. 3 coats (1 <sup>st</sup> & 2 <sup>nd</sup> diluted). Required: 3L.	No.	2.0	R	R
<b>C.6</b>	<b>PPS PT</b>	<b>ROOF</b>				
B.6.1	PPS PT 6.1	Roof structure complete, fitted and certified	Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

#### 4. MTSHIBENI, UMZIMKHULU

##### SECTION D: DIP TANK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>D.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
D.1.1		EXCAVATIONS				
D.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	27	R	R
D.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and dispose of excess materials	m <sup>3</sup>	13.8	R	R
D.1.1.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
D.1.1.3.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	TBA	R	Rates only
D.1.1.3.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	TBA	R	Rates only
<b>D.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
D.2.1	PPS C 17.4	Reinforced concrete floor and steps for diptank- 25 MPa dipping facility as per Drawing 9 – SHP/RDN/2020/031. Including steel reinforcement (mesh, rebar and angle iron with fish tails). PPS-D2	m <sup>3</sup>	1.9	R	R
D.2.3	PPS C 17.1	20MPa/19mm mass concrete slabs 100mm thick for entry and exit areas around diptank. 14 + 15 = 29 m <sup>2</sup> in total. PPS D4	m <sup>3</sup>	2.9	R	R
<b>D.3</b>	<b>PPS MS</b>	<b>MASONRY WORK</b>				
D.3.1	PPS MS 4.2	Dip Tank walls: 230mm - Burnt Clay brick walls. 25m <sup>2</sup> @ 55bricks/m <sup>2</sup> = 2665 bricks	Lump Sum	=====	=====	R
D.3.2	PPS MS 4.6	Smooth formwork to vertical plane for diptank steps (21 steps + chamfering lats)	m <sup>2</sup>	10.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**4. MTSHIBENI, UMZIMKHULU**

**SECTION E: SECURITY FENCING**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
E.1.1		EXCAVATIONS				
E.1.1.1	PPS EW 4	Excavate in all materials for fence posts and stays and dispose of excess materials	m³	5.2		
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
		<i>Fence description: 1.80m high weld mesh fence with barbed wire and 500mm flat wrap razor coils on top. Total height: 2.2m. Corner and gate posts to be round steel tubing, with 2.4m Y-standards at 2.5m centres as intermediate posts. Total length: 125m</i>				
E.2.1	PPS SF6.1	Labour and supervision costs for the erection of a 2.3m high standard security fence around the premises as per Drawings 10, 11 & 13.	Lump Sum	=====	=====	R
E.2.2		Extra-over on Item E.2.1 for the supply and delivery of:				
E.2.2.1	PPS SF6.2	Corner / Gate posts (fully galv. mild steel post, capped. Dimensions: 3.00m x 100mm OD x 3.1mm – PPS SF2.1	No.	6		
E.2.2.2	PPS SF6.2	Intermediate posts (fully galvanized mild steel posts, capped. Dim.3.00m x 90mm OD x 2.5mm. PPS SF2.2	No.	13		
E.2.2.3	PPS SF6.2	Stays (fully galvanized mild steel stays, Dim. 2.4m x 48mm OD x 2.5mm. PPS SF2.3	No.	35		
E.2.2.4	PPS SF6.2	Steel Y-section iron standards – 2.4m.SF2.4	No.	30		
E.2.2.5	PPS SF6.2	4mm fully galv. mild steel zinc coated wire - 5kg/50m rolls. PPS SF3.1	No.	10		
E.2.2.6	PPS SF6.2	2.5mm "Iowa"-type double strand fully galv. mild steel barbed wire - 540m roll. SF3.1	No.	1		
E.2.2.7	PPS SF6.2	1830mm x 100mm x 50mm x 2.5mm welded mesh, 30m roll. PPS SF3.1	No.	5		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 4. MTSHIBENI, UMZIMKHULU

**SECTION E: SECURITY FENCING (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
E.2.2.8	PPS SF6.2	Razor flat wrap coils 500mm x 15m roll. PPS/SF3.2	No.	9		
E.2.2.9	PPS SF6.2	1.6mm fully galvanized mild steel zinc coated binding wire - 50kg roll. PPS SF3.1	No.	2		
E.2.2.10	PPS SF6.3	Double leafed/framed heavy duty entry gate 3.6m x 2.3m as per PPS SF4 & Drawing 13B (FEN/RDN/2020/038), including concrete footings (0.5m <sup>3</sup> ). PPS SF4	No.	1		
E.2.2.11	PPS C17.1	15 MPa/13mm concrete footing for the security fencing posts, but excluding the footings for the main gate. PPS SF5 Materials: 28 bags of cement. Sand: 2.7m <sup>3</sup> . 13mm stone: 3.2m <sup>3</sup> .	m <sup>3</sup>	5.2		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

#### 4. MTSHIBENI, UMZIMKHULU

#### SECTION F: ANIMAL HANDLING FACILITIES

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>F.1</b>		<b>FENCING</b>				
F.1.1	PPS HF3.1	CCA treated gate & corner poles: 1.80m x 100/125mm		25		
F.1.2	PPS HF3.1	CCA treated box & intermediate posts: 1.80m x 75/100mm		66		
F.1.3	PPS HF3.1	CCA treated poles 1.50m x 75/100mm		13		
F.1.4	PPS HF3.1	CCA treated braces 900mm (24*1.80m x 75/100mm) cut in two pieces		13		
F.1.5	PPS HF3.1	CCA treated laterals 3.60m x 75/100mm		5		
F.1.6	PPS HF3.1	Hinged joint fencing (galv.) top hor. strand closer than bottom ones 1.20m with verticals at 150mm. Rolls of 30m length		3		
F.1.7	PPS HF3.1	High tensile steel wire 2.25mm. Rolls of 5kg/130m		4		
F.1.8	PPS HF3.1	Staples 25mmx 2.5mm - Packs of 0.5kg/225/pk		5		
F.1.9	PPS HF3.1	Hoop iron (galv.) 400 x 30 x 1.0mm		17		
F.1.10	PPS HF3.1	15 MPa/13mm concrete for 67 footings 400 x 400 x 600mm. Total volume cured: 6.3m <sup>3</sup> Cement: 29 bags <> Sand: 3.1m <sup>3</sup> <> Stone (13mm): 4.1m <sup>3</sup>	m <sup>3</sup>	6.3		
<b>F.2</b>		<b>GATES</b>				
F.2.1	PPS HF3.2	Heavy duty farm gate, 2.4m x 1.2m	No.	3		
F.2.2	PPS HF3.2	Heavy duty farm gate, 1.2m x 1.2m	No.	10		
F.2.3	PPS HF3.2	Heavy duty farm gate, 0.9m x 1.2m	No.	8		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

#### 4. MTSIBENI, UMZIMKHULU

## SECTION G: ADDITIONAL WORK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G.1		CONSTRUCTION OF A CUT OFF DRAIN  <i>Description: cutting and compaction of a cut off V-drain above the woolshed. See PPS AW1 &amp; Figure 10.</i>				
G.1.1	PPS AW2	Cutting of a V-drain of 3m wide and 75-100m long above the woolshed	m³	50		
G.1.2	PPS AW2	Compaction of the V-drain to 90% Mod AASHTo	m²	250		
G.1.3	PPS A.3.3	Compaction testing	=As=	=per=	===A.3.3==	=====
Total Carried Forward To Summary >>					R	

---

**5. EMVUBUKAZI, UMZIMKHULU**


---

**SUMMARY OF SECTIONS**

SECTION	PAGE NO.	DESCRIPTION	AMOUNT (RAND)
<b>1</b>	<b>1</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
	<b>2</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
<b>2</b>	<b>3</b>	<b>SECTION B: WOOLSHED</b>	<b>R.....</b>
	<b>4</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>5</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>6</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>7</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
<b>3</b>	<b>8</b>	<b>SECTION C: PIT TOILET</b>	<b>R.....</b>
	<b>9</b>	<b>SECTION C: PIT TOILET (CTD)</b>	<b>R.....</b>
<b>4</b>	<b>10</b>	<b>SECTION D: DIP TANK</b>	<b>R.....</b>
<b>5</b>	<b>11</b>	<b>SECTION E: SECURITY FENCING</b>	<b>R.....</b>
	<b>12</b>	<b>SECTION E: SECURITY FENCING (CTD)</b>	<b>R.....</b>
<b>6</b>	<b>13</b>	<b>SECTION F: ANIMAL HANDLING FACILITIES</b>	<b>R.....</b>
<b>7</b>	<b>14</b>	<b>SECTION G: ADDITIONAL WORK</b>	<b>R.....</b>
<b>Total Carried Forward To Summary Of Schedules &gt;&gt;</b>			<b>R</b>



---

**5. EMVUBUKAZI, UMZIMKHULU**


---

**SUMMARY OF SCHEDULES**

<b>SCHEDULE</b>	<b>DESCRIPTION</b>	<b>AMOUNT (RAND)</b>
1	SHEARING SHED – SUBTOTAL OF SUMMARY PAGE	R.....
2	Contingencies 10%	R.....
<b>SUBTOTAL</b>		R.....
3	<b>VAT 15%</b>	R.....
	<b>TOTAL</b>	R.....

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION A: PRELIMINARY AND GENERAL**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A .1</b>	<b>8.3</b>	<b>FIXED-CHARGE ITEMS</b>				
A .1.1	8.3.1	Contractual Requirements	Sum	=====	=====	R
A.1.2	8.3.2	Establish Facilities on the Site :				
		a) Facilities for Contractor				
A.1.2.1		Offices and storage sheds	Sum	=====	=====	R
A.1.2.2		Ablution and latrine facilities	Sum	=====	=====	R
A.1.2.3		Water supplies, electric power and communications	Sum	=====	=====	R
A.1.2.4		Plant, tools and equipment Applicable only to specifically identified plant.	Sum	=====	=====	R
A.1.2.5	8.3.3	Other fixed-charge obligations	Sum	=====	=====	R
A.1.2.6	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	=====	=====	R
<b>A.2</b>	<b>8.4</b>	<b>TIME-RELATED ITEMS</b>				
A.2.1	8.4.1	Contractual Requirements	Sum	=====	=====	R
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Contractor for duration of construction, except where otherwise stated				
A.2.2		Offices and storage sheds	Sum	=====	=====	R
A.2.3		Ablution and latrine facilities	Sum	=====	=====	R
A.2.4		Plant, Tools and equipment	Sum	=====	=====	R
A.2.5		Water supplies, electric power and	Sum	=====	=====	R
A.2.7	8.4.4	Company and head office overhead costs	Sum	=====	=====	R
A.2.8	8.4.5	Other time-related obligations	Sum	=====	=====	R
<b>Total Carried Forward To Summary Page&gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION A: PRELIMINARY AND GENERAL (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.3</b>	<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
	8.5	For work to be done by Contractor				
A.3.1		a) Allow for provisional sum for repairs to damaged services which could have been reasonably foreseen	Prov. Sum	=====	=====	R 20,000.00
A.3.2		b) Overheads, charges and profit on item A.3.1. Percentage tendered >>: .....%	Prov. Sum	=====	=====	R
	8.5	For work done by Nominated Sub-Contractor				
A.3.3		Density tests of all soil compactions on instruction by Engineer	Prov. Sum	=====	=====	R 12,000.00
A.3.4		Overheads, charges and profit on Item A.3.3. Percentage tendered >>.....%	Prov. Sum	=====	=====	R
A.3.5	PPS D 9.2	Water connection between plastic water tanks and dip tank and to pressurised water source (municipal or other)	Prov. Sum	=====	=====	R 18 000.00
A.3.6		Overheads, charges and profit on item A.3.7 Percentage tendered >>.....%	Prov. Sum	=====	=====	R
	8.7	Dayworks				
A.3.7		<u>Plant</u> Designated plant or plant for designated operations or plant for use during stated periods. Applicable only to specifically identified plant.	Sum	=====	=====	R
<b>A.4</b>	<b>PAM</b>	<b>OCCUPATIONAL HEALTH &amp; SAFETY ACT</b>				
A.4.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====	R
A.4.2	PAM 8.2.2	Time related obligations to comply with the OHS Act Construction Regulations	Month	6	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION B: WOOL SHED**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
B.1.1		SITE CLEARANCE				
B.1.1.1	PPS EW1,2	Clear and grub site. Dimensions: 40m x 25m	m <sup>2</sup>	1000	R	R
B.1.2		EXCAVATIONS				
B.1.2.1	PPS EW 3	Remove topsoil and stockpile (site + road)	m <sup>3</sup>	15	R	R
B.1.2.2	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials Foundations 65m x 600mm (w) x 800mm (d)	m <sup>3</sup>	35	R	R
B.1.2.3	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials - Leveling	m <sup>3</sup>	720		
B.1.2.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
B.1.2.3.1	PPS EW 3	Intermediate excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.2.3.2	PPS EW 3	Hard Rock excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.3		SUBGRADE FILLING AND COMPACTION				
B.1.3.1	PPS EW 4	Filling and compaction of selected excavated material to 95% Mod AASHTO	m <sup>3</sup>	65.0	R	R
B.1.3.2	PPS EW 4	Filling and compaction of imported G5 material (150mm thick) to 95% Mod AASHTO.	m <sup>3</sup>	45.0	R	R
B.1.3.3	PPS EW 6	Filling and compaction of river sand for dip floor bedding and behind wall	m <sup>3</sup>	2.0	R	R
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
B.2.1	PPS C 17.1	Mass concrete - 20 MPa to foundations 725 x 250mm (ext.) & 500 x 250mm (int.)	m <sup>3</sup>	11.7	R	R
B.2.2	PPS C 17.2	Mass concrete - 25 MPa to Floors, Ramp and Apron	m <sup>3</sup>	23.0	R	R
B.2.3	PPS C 17.6	Damp proof membrane 375 micron to floors	m <sup>2</sup>	175	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS (CTD)</b>				
B.2.4	PPS C 17.7	Damp proof membrane 375 micron to 220mm wide walls	m	65.0	R	R
B.2.5	PPS C 17.3	Pre-stressed concrete lintels				
B.2.5.1		0.9m x 105mm x 70/75mm lintels to sliding gates. Two doors x 2 lintels.	No.	4	R	R
B.2.5.2		1.5m x 105mm x 70/75mm lintels to windows 10 windows x 2 lintels.	No.	20	R	R
B.2.5.3		1.5m x 105mm x 70/75mm lintels to doors. 4 doors x 2 lintels.	No.	8	R	R
B.2.5.4		2.7 (min.) x 140/145mm x 70/75mm lintels to roll-up doors. Two roll up doors x 3 lintels	No.	6	R	R
B.3.1	PPS MS 4.1	Foundation walls: Double brick 220mm, 800mm high (9 -10 courses). Includes ramps of 300mm high. NFX or cement bricks (14 MPa). Area: 64m x 800mm App. 6500 bricks (incl. 5% breakage). This includes 6 rolls of 20m x 150mm x 2.8mm brickforce installed at every <b>second</b> course. Bags of PPC cement: 20 Building sand: 4.5m <sup>3</sup>	m <sup>2</sup>	53	R	R
B.3.2	PPS MS 4.2	Outer walls: Double brick (230mm). Red burnt Clay plaster bricks App 18500 bricks, incl. 5% breakage) PPC Cement: 60 bags. Building sand: 13m <sup>3</sup> This item includes 36 rolls of 20m x 150mm x 2.8mm brickforce installed in every <b>third</b> course (below lintel level) and every <b>second</b> course (above lintels)	m <sup>2</sup>	160	R	R
B.3.3	PPS MS 4.5	Plaster work (15mm) inside & outside - 174m <sup>2</sup> . Includes Interior walls. Materials & labour. PPC cement: 35 bags Plaster sand: 7.0m <sup>3</sup>	m <sup>2</sup>	1		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.3.4	PPS MS 4.3	Inner walls: M150 blocks (150x) (incl. 5% breakage). Materials: 0.25m <sup>3</sup> of building sand. 2 bags of cement. 2 rolls of 20m x 150mm x 2.8mm brickforce installed at every second course	Sum.	1	R	R
B.3.4	PPS MS 4.4	Ventilation bricks - 190mm	No.	14	R	R
B.3.5	PPS MS 4.5	Plasterwork to all walls (320m <sup>2</sup> ) including dip tank (35m <sup>2</sup> ), both sides 10mm thick.	m <sup>2</sup>	355	R	R
<b>B.4</b>	<b>PPS F</b>	<b>WINDOWS, DOORS AND FITTINGS</b>				
B.4.1	PPS F 7.1	Durowin Code SS33 (1 445mm x 987mm) windows, fitted and glazed (floated glass, 4mm thick)	No.	10	R	R
B.4.2	PPS F 7.2	Steel door frames: 2 032mm x 813mm x 234mm	No.	3	R	R
B.4.3	PPS F 7.2	Steel door frame: 2 032mm x 813mm x 154mm	No.	1	R	R
B.4.4	PPS F 7.3	Solid fully meranti 4/8 panel hard wood <b>stable</b> doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.3	Solid fully meranti 4/8 panel hard wood doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.4	Guillotine gate as per Drawing 7 A & B (SHP/RDN/2020/033) –PPS F5	No.	2	R	R
B.4.6	PPS F 7.5	Industrial heavy duty roll-up steel door Dimensions: 2100mm x 2 300mm) - PPS F4	No.	2	R	R
B.4.7	PPS F 7.6	5 000 litre polyethylene plastic tank, fittings, valves and anchored to tank base PPS F6	No.	2	R	R
B.4.8	PPS F 7.7	Tank base complete (Drawing 14)	No.	2	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
B.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer	m²	340	R	R
B.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat	m²	340	R	R
B.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA	m²	340	R	R
B.5.4	PPS P 6.4	Windows: 1 Coat Steel Primer and two (2) coats enamel paint to windows code SS33 (1 445mm x 987mm)	No.	10	R	R
B.5.5	PPS P 6.4	Door frames: 1 Coat steel primer and two (2) coats enamel paint to steel door frames (2 032mm x 813mm x <b>234</b> mm)	No.	3	R	R
B.5.6	PPS P 6.4	Door frame: 1 Coat steel primer and two (2) coats enamel paint to steel door frame 2032mm x 813mm x <b>154</b> m	No.	1	R	R
B.5.7	PPS P 6.5	Doors: 2 Coats exterior UV resistant varnish	No.	4	R	R
B.5.8	PPS P 6.6	Painting of purpose made guillotine gates as per Drawing 07 (SHP/RDN/2020/032). Two coats of red oxide steel primer	No.	2	R	R
<b>B.6</b>	<b>PPS R</b>	<b>ROOF</b>				
B.6.1	PPS R11.1	Roof structure complete, designed, fitted and certified. Including trusses (PPS R1 & 2), purlins & hurricane clips (R3).	Sum	=====	=====	R
B.6.2	PPS R 11.2	Chromadek & polycarbonate (10x) roof sheets as per PPS R8.1 - 8.5, supplied & fitted as per Drawing 4 (SHP/RDN/2020/028	Sum	=====	=====	R
B.6.3	PPS R 11.3	155mm x 100mm Industrial Ogee Aluminium Seamless gutters completed and fitted (R7)	m	41.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION B – WOOLSHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.6.4	PPS R 11.4	105mm x 75mm Aluminium down pipes completed and fitted (R7)	Lump Sum	=====	=====	R
B.6.5	PPS R 11.5	Fibre-cement barge board (PPS R5) (225 x 80 x 10mm) and fascia boards (R4) (225 x 10), completed and fitted.	Sum	=====	=====	R
B.6.6	PPS R11.6	Alufoil insulation (PPS R9)	m <sup>2</sup>	150	R	R
B.6.7	PPS R11.7	Metal turbine ventilator 300mm throat	No.	2	R	R
B.6.8	PPS R11.6	Ceiling for office. Complete as per PPS R10. See Drawing 06 (SHP/RDN/2020/031)	Lump Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	



**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION C: VIP LATRINE (2 X)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
C.1.1		EXCAVATIONS				
C.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	32.0	R	R
C.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and mount and dispose of excess materials	m <sup>3</sup>	14.0	R	R
C.1.2		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
C.1.2.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	=====	R	Rates only
C.1.2.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	=====	R	Rates only
<b>C.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
C.2.1	PPS C 17.2	Mass concrete pit floors - 20 MPa to foundations. 2.70m x 2.70m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.2	PPS C 17.4	Reinforced concrete slab - 30 MPa floor to Pit Toilet 3.20m x 2.30m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.3	PPS C 17.5	Steel reinforcement to concrete slab. Ref 395 – two sheets. See Drawing 15.	Sum	=====	=====	
C.2.4	PPS C 17.6.2	DPC 375 micron to 150mm wide walls	m	20.0	R	R
C.2.5		Pre-stressed concrete lintels				
C.2.5.1	PPS C 17.3	1.50m x 140mm x 75mm lintels to doors	No.	2	R	R
<b>C.3</b>	<b>PPS MS</b>	<b>MASONRY WORKS</b>				
C.3.1	PPS MS 4.3	Pit and superstructure walls: M150mm cement blocks. 2 x 300 = 600 blocks. 14.4 m <sup>2</sup> (pit) + 10.8 m <sup>2</sup> (superstructure) = 25.2m <sup>2</sup> per toilet	m <sup>2</sup>	50.4	R	R
C.3.2	PPS MS 4.5	Plasterwork (10mm thick) for superstructure <i>only</i> on inside and outside. 21.6m <sup>2</sup> per toilet	m <sup>2</sup>	43.2	R	R
<sup>1</sup> All quantities are for 2 latrines <<<						
<b>Total Carried Forward to Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION C: PIT TOILET (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.4</b>	<b>PPS F</b>	<b>DOORS AND FITTINGS</b>				
C.4.1	PPS F 7.2	<b>Meranti</b> (dimensions as per drawing) doorframe OR Heavy duty <b>steel</b> doorframe (14 ga/1.6mm min. Dimensions: 2 032mm x 813mm x 150mm (PPS-F2)	No.	2	R	R
C.4.2	PPS F 7.3	Pine ledged and braced batten door 1750/1850 x 760 x 40 mm (battens and braces to be 20mm thick) (PPS - PT5)	No.	2	R	R
C.4.3	PPS PT 5.2	Pedestal: Plastic. With toilet seat & cover. Height: 500mm high. PPS – PT3	No.	2	R	R
C.4.4	PPS PT 5.3	Ventilation pipes: 3m x 110mm PVC – Black PPS – PT4	No.	2	R	R
<b>C.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
C.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer Spreading rate: 8m <sup>2</sup> /L. Required: 6L.	m <sup>2</sup>	43.2	R	R
C.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat Spreading rate: 6m <sup>2</sup> /L. required: 8L.	m <sup>2</sup>	43.2	R	R
C.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA (off-white/beige) Spreading rate: 9m <sup>2</sup> Required: 10L.	m <sup>2</sup>	43.2	R	R
C.5.4	PPS P 6.4	<u>Door frames (steel)</u> : 1 Coat steel primer (1L) and two (2) coats enamel paint (1L) OR <u>Doorframes (meranti)</u> : 3 coats of varnish (light oak). 1 <sup>st</sup> & 2 <sup>nd</sup> diluted with tur-pentine 25% & 10% respectively). Req'd: 1L	No.	2.0	R	R
C.5.5	PPS P 6.5	<u>Doors</u> : 3 Coats exterior UV resistant varnish. 3 coats (1 <sup>st</sup> & 2 <sup>nd</sup> diluted). Required: 3L.	No.	2.0	R	R
<b>C.6</b>	<b>PPS PT</b>	<b>ROOF</b>				
B.6.1	PPS PT 6.1	Roof structure complete, fitted and certified	Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION D: DIP TANK**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>D.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
D.1.1		EXCAVATIONS				
D.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	27	R	R
D.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and dispose of excess materials	m <sup>3</sup>	13.8	R	R
D.1.1.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
D.1.1.3.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	TBA	R	Rates only
D.1.1.3.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	TBA	R	Rates only
<b>D.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
D.2.1	PPS C 17.4	Reinforced concrete floor and steps for diptank- 25 MPa dipping facility as per Drawing 9 – SHP/RDN/2020/031. Including steel reinforcement (mesh, rebar and angle iron with fish tails). PPS-D2	m <sup>3</sup>	1.9	R	R
D.2.3	PPS C 17.1	20MPa/19mm mass concrete slabs 100mm thick for entry and exit areas around diptank. 14 + 15 = 29 m <sup>2</sup> in total. PPS D4	m <sup>3</sup>	2.9	R	R
<b>D.3</b>	<b>PPS MS</b>	<b>MASONRY WORK</b>				
D.3.1	PPS MS 4.2	Dip Tank walls: 230mm - Burnt Clay brick walls. 25m <sup>2</sup> @ 55bricks/m <sup>2</sup> = 2665 bricks	Lump Sum	=====	=====	R
D.3.2	PPS MS 4.6	Smooth formwork to vertical plane for diptank steps (21 steps + chamfering lats)	m <sup>2</sup>	10.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION E: SECURITY FENCING**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
E.1.1		EXCAVATIONS				
E.1.1.1	PPS EW 4	Excavate in all materials for fence posts and stays and dispose of excess materials	m³	5.2		
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
		<i>Fence description: 1.80m high weld mesh fence with barbed wire and 500mm flat wrap razor coils on top. Total height: 2.2m. Corner and gate posts to be round steel tubing, with 2.4m Y-standards at 2.5m centres as intermediate posts. Total length: 125m</i>				
E.2.1	PPS SF6.1	Labour and supervision costs for the erection of a 2.3m high standard security fence around the premises as per Drawings 10, 11 & 13.	Lump Sum	=====	=====	R
E.2.2		Extra-over on Item E.2.1 for the supply and delivery of:				
E.2.2.1	PPS SF6.2	Corner / Gate posts (fully galv. mild steel post, capped. Dimensions: 3.00m x 100mm OD x 3.1mm – PPS SF2.1	No.	6		
E.2.2.2	PPS SF6.2	Intermediate posts (fully galvanized mild steel posts, capped. Dim.3.00m x 90mm OD x 2.5mm. PPS SF2.2	No.	13		
E.2.2.3	PPS SF6.2	Stays (fully galvanized mild steel stays, Dim. 2.4m x 48mm OD x 2.5mm. PPS SF2.3	No.	35		
E.2.2.4	PPS SF6.2	Steel Y-section iron standards – 2.4m.SF2.4	No.	30		
E.2.2.5	PPS SF6.2	4mm fully galv. mild steel zinc coated wire - 5kg/50m rolls. PPS SF3.1	No.	10		
E.2.2.6	PPS SF6.2	2.5mm "Iowa"-type double strand fully galv. mild steel barbed wire - 540m roll. SF3.1	No.	1		
E.2.2.7	PPS SF6.2	1830mm x 100mm x 50mm x 2.5mm welded mesh, 30m roll. PPS SF3.1	No.	5		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION E: SECURITY FENCING (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
E.2.2.8	PPS SF6.2	Razor flat wrap coils 500mm x 15m roll. PPS/SF3.2	No.	9		
E.2.2.9	PPS SF6.2	1.6mm fully galvanized mild steel zinc coated binding wire - 50kg roll. PPS SF3.1	No.	2		
E.2.2.10	PPS SF6.3	Double leafed/framed heavy duty entry gate 3.6m x 2.3m as per PPS SF4 & Drawing 13B (FEN/RDN/2020/038), including concrete footings (0.5m <sup>3</sup> ). PPS SF4	No.	1		
E.2.2.11	PPS C17.1	15 MPa/13mm concrete footing for the security fencing posts, but excluding the footings for the main gate. PPS SF5 Materials: 28 bags of cement. Sand: 2.7m <sup>3</sup> . 13mm stone: 3.2m <sup>3</sup> .	m <sup>3</sup>	5.2		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 5. EMVUBUKAZI, UMZIMKHULU

### SECTION F: ANIMAL HANDLING FACILITIES

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>F.1</b>		<b>FENCING</b>				
F.1.1	PPS HF3.1	CCA treated gate & corner poles: 1.80m x 100/125mm		25		
F.1.2	PPS HF3.1	CCA treated box & intermediate posts: 1.80m x 75/100mm		66		
F.1.3	PPS HF3.1	CCA treated poles 1.50m x 75/100mm		13		
F.1.4	PPS HF3.1	CCA treated braces 900mm (24*1.80m x 75/100mm) cut in two pieces		13		
F.1.5	PPS HF3.1	CCA treated laterals 3.60m x 75/100mm		5		
F.1.6	PPS HF3.1	Hinged joint fencing (galv.) top hor. strand closer than bottom ones 1.20m with verticals at 150mm. Rolls of 30m length		3		
F.1.7	PPS HF3.1	High tensile steel wire 2.25mm. Rolls of 5kg/130m		4		
F.1.8	PPS HF3.1	Staples 25mmx 2.5mm - Packs of 0.5kg/225/pk		5		
F.1.9	PPS HF3.1	Hoop iron (galv.) 400 x 30 x 1.0mm		17		
F.1.10	PPS HF3.1	15 MPa/13mm concrete for 67 footings 400 x 400 x 600mm. Total volume cured: 6.3m <sup>3</sup> Cement: 29 bags <> Sand: 3.1m <sup>3</sup> <> Stone (13mm): 4.1m <sup>3</sup>	m <sup>3</sup>	6.3		
<b>F.2</b>		<b>GATES</b>				
F.2.1	PPS HF3.2	Heavy duty farm gate, 2.4m x 1.2m	No.	3		
F.2.2	PPS HF3.2	Heavy duty farm gate, 1.2m x 1.2m	No.	10		
F.2.3	PPS HF3.2	Heavy duty farm gate, 0.9m x 1.2m	No.	8		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**5. EMVUBUKAZI, UMZIMKHULU**

**SECTION G: ADDITIONAL WORK**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G1		CONSTRUCTION OF AN ACCESS ROAD				
		<i>Description: Creation of a 6m wide 150m long access road between the district road and the project site. See PPS AW1.</i>				
G1.1	PPS AW3.1	Cut and fill the road profile as per PPS AW1-figure 10.	m <sup>3</sup>	450		
G.1.2	PPS AW3.1	Compaction of the carriage way and road shoulder to 95% Mod AASHTo	m <sup>2</sup>	750		
G.1.3	PPS A.3.3	Compaction testing	=As=	=per=	===A.3.3==	=====
G.2		CONSTRUCTION OF A CUT OFF DRAIN				
		<i>Description: cutting and compaction of a cut off V-drain above the woolshed. See PPS AW2</i>				
G.2.1	PPS AW3.2	Cutting of a V-drain of 3m wide and 75-100m long above the woolshed	m <sup>3</sup>	50		
G.2.2	PPS AW3.2	Compaction of the V-drain to 90% Mod AASHTo	m <sup>2</sup>	250		
G.2.3	PPS A.3.3	Compaction testing	=As=	=per=	===A.3.3==	=====
Total Carried Forward To Summary >>					R	

## 6. SIHLEZA, UMZIMKHULU

### SUMMARY OF SECTIONS

SECTION	PAGE NO.	DESCRIPTION	AMOUNT (RAND)
<b>1</b>	<b>1</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
	<b>2</b>	<b>SECTION A: PRELIMINARY AND GENERAL</b>	<b>R.....</b>
<b>2</b>	<b>3</b>	<b>SECTION B: WOOLSHED</b>	<b>R.....</b>
	<b>4</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>5</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>6</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
	<b>7</b>	<b>SECTION B: WOOLSHED (CTD)</b>	<b>R.....</b>
<b>3</b>	<b>8</b>	<b>SECTION C: PIT TOILET</b>	<b>R.....</b>
	<b>9</b>	<b>SECTION C: PIT TOILET (CTD)</b>	<b>R.....</b>
<b>4</b>	<b>10</b>	<b>SECTION D: DIP TANK</b>	<b>R.....</b>
<b>5</b>	<b>11</b>	<b>SECTION E: SECURITY FENCING</b>	<b>R.....</b>
	<b>12</b>	<b>SECTION E: SECURITY FENCING (CTD)</b>	<b>R.....</b>
<b>6</b>	<b>13</b>	<b>SECTION F: ANIMAL HANDLING FACILITIES</b>	<b>R.....</b>
<b>7</b>	<b>14</b>	<b>SECTION G: ADDITIONAL WORK</b>	<b>R.....</b>
<b>Total Carried Forward To Summary Of Schedules &gt;&gt;</b>			<b>R</b>



---

**6. SIHLEZA, UMZIMKHULU**


---

**SUMMARY OF SCHEDULES**

<b>SCHEDULE</b>	<b>DESCRIPTION</b>	<b>AMOUNT (RAND)</b>
1	SHEARING SHED – SUBTOTAL OF SUMMARY PAGE	R.....
2	Contingencies 10%	R.....
<b>SUBTOTAL</b>		R.....
3	<b>VAT 15%</b>	R.....
	<b>TOTAL</b>	R.....

**6. SIHLEZA, UMZIMKHULU**

**SECTION A: PRELIMINARY AND GENERAL**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A .1</b>	<b>8.3</b>	<b>FIXED-CHARGE ITEMS</b>				
A .1.1	8.3.1	Contractual Requirements	Sum	=====	=====	R
A.1.2	8.3.2	Establish Facilities on the Site :				
		a) Facilities for Contractor				
A.1.2.1		Offices and storage sheds	Sum	=====	=====	R
A.1.2.2		Ablution and latrine facilities	Sum	=====	=====	R
A.1.2.3		Water supplies, electric power and communications	Sum	=====	=====	R
A.1.2.4		Plant, tools and equipment Applicable only to specifically identified plant.	Sum	=====	=====	R
A.1.2.5	8.3.3	Other fixed-charge obligations	Sum	=====	=====	R
A.1.2.6	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	=====	=====	R
<b>A.2</b>	<b>8.4</b>	<b>TIME-RELATED ITEMS</b>				
A.2.1	8.4.1	Contractual Requirements	Sum	=====	=====	R
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Contractor for duration of construction, except where otherwise stated				
A.2.2		Offices and storage sheds	Sum	=====	=====	R
A.2.3		Ablution and latrine facilities	Sum	=====	=====	R
A.2.4		Plant, Tools and equipment	Sum	=====	=====	R
A.2.5		Water supplies, electric power and	Sum	=====	=====	R
A.2.7	8.4.4	Company and head office overhead costs	Sum	=====	=====	R
A.2.8	8.4.5	Other time-related obligations	Sum	=====	=====	R
<b>Total Carried Forward To Summary Page&gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION A: PRELIMINARY AND GENERAL (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>A.3</b>	<b>8.5</b>	<b>SUMS STATED PROVISIONALLY BY ENGINEER</b>				
	8.5	For work to be done by Contractor				
A.3.1		a) Allow for provisional sum for repairs to damaged services which could have been reasonably foreseen	Prov. Sum	=====	=====	R 20,000.00
A.3.2		b) Overheads, charges and profit on item A.3.1. Percentage tendered >>: .....%	Prov. Sum	=====	=====	R
	8.5	For work done by Nominated Sub-Contractor				
A.3.3		Density tests of all soil compactions on instruction by Engineer	Prov. Sum	=====	=====	R 12,000.00
A.3.4		Overheads, charges and profit on Item A.3.3. Percentage tendered >>.....%	Prov. Sum	=====	=====	R
A.3.5	PPS D 9.2	Water connection between plastic water tanks and dip tank and to pressurised water source (municipal or other)	Prov. Sum	=====	=====	R 18 000.00
A.3.6		Overheads, charges and profit on item A.3.7 Percentage tendered >>.....%	Prov. Sum	=====	=====	R
	8.7	Dayworks				
A.3.7		<u>Plant</u> Designated plant or plant for designated operations or plant for use during stated periods. Applicable only to specifically identified plant.	Sum	=====	=====	R
<b>A.4</b>	<b>PAM</b>	<b>OCCUPATIONAL HEALTH &amp; SAFETY ACT</b>				
A.4.1	PAM 8.2.1	All costs and obligations to comply with the OHS Act Construction Regulations	Sum	=====	=====	R
A.4.2	PAM 8.2.2	Time related obligations to comply with the OHS Act Construction Regulations	Month	6	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION B: WOOL SHED**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
B.1.1		SITE CLEARANCE				
B.1.1.1	PPS EW1,2	Clear and grub site. Dimensions: 40m x 25m	m <sup>2</sup>	1000	R	R
B.1.2		EXCAVATIONS				
B.1.2.1	PPS EW 3	Remove topsoil and stockpile (site + road)	m <sup>3</sup>	15	R	R
B.1.2.2	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials Foundations 65m x 600mm (w) x 800mm (d)	m <sup>3</sup>	35	R	R
B.1.2.3	PPS EW 3	Excavate in all materials and use for backfill and dispose of excess materials - Leveling	m <sup>3</sup>	480	R	R
B.1.2.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
B.1.2.3.1	PPS EW 3	Intermediate excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.2.3.2	PPS EW 3	Hard Rock excavation	m <sup>3</sup>	=====	R	RATE ONLY
B.1.3		SUBGRADE FILLING AND COMPACTION				
B.1.3.1	PPS EW 4	Filling and compaction of selected excavated material to 95% Mod AASHTO	m <sup>3</sup>	65.0	R	R
B.1.3.2	PPS EW 4	Filling and compaction of imported G5 material (150mm thick) to 95% Mod AASHTO.	m <sup>3</sup>	45.0	R	R
B.1.3.3	PPS EW 6	Filling and compaction of river sand for dip floor bedding and behind wall	m <sup>3</sup>	2.0	R	R
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
B.2.1	PPS C 17.1	Mass concrete - 20 MPa to foundations 725 x 250mm (ext.) & 500 x 250mm (int.)	m <sup>3</sup>	11.7	R	R
B.2.2	PPS C 17.2	Mass concrete - 25 MPa to Floors, Ramp and Apron	m <sup>3</sup>	23.0	R	R
B.2.3	PPS C 17.6	Damp proof membrane 375 micron to floors	m <sup>2</sup>	175	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS (CTD)</b>				
B.2.4	PPS C 17.7	Damp proof membrane 375 micron to 220mm wide walls	m	65.0	R	R
B.2.5	PPS C 17.3	Pre-stressed concrete lintels				
B.2.5.1		0.9m x 105mm x 70/75mm lintels to sliding gates. Two doors x 2 lintels.	No.	4	R	R
B.2.5.2		1.5m x 105mm x 70/75mm lintels to windows 10 windows x 2 lintels.	No.	20	R	R
B.2.5.3		1.5m x 105mm x 70/75mm lintels to doors. 4 doors x 2 lintels.	No.	8	R	R
B.2.5.4		2.7 (min.) x 140/145mm x 70/75mm lintels to roll-up doors. Two roll up doors x 3 lintels	No.	6	R	R
B.3.1	PPS MS 4.1	Foundation walls: Double brick 220mm, 800mm high (9 -10 courses). Includes ramps of 300mm high. NFX or cement bricks (14 MPa). Area: 64m x 800mm App. 6500 bricks (incl. 5% breakage). This includes 6 rolls of 20m x 150mm x 2.8mm brickforce installed at every <b>second</b> course. Bags of PPC cement: 20 Building sand: 4.5m <sup>3</sup>	m <sup>2</sup>	53	R	R
B.3.2	PPS MS 4.2	Outer walls: Double brick (230mm). Red burnt Clay plaster bricks App 18500 bricks, incl. 5% breakage) PPC Cement: 60 bags. Building sand: 13m <sup>3</sup> This item includes 36 rolls of 20m x 150mm x 2.8mm brickforce installed in every <b>third</b> course (below lintel level) and every <b>second</b> course (above lintels)	m <sup>2</sup>	160	R	R
B.3.3	PPS MS 4.5	Plaster work (15mm) inside & outside - 174m <sup>2</sup> . Includes Interior walls. Materials & labour. PPC cement: 35 bags Plaster sand: 7.0m <sup>3</sup>	m <sup>2</sup>	1		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.3.4	PPS MS 4.3	Inner walls: M150 blocks (150x) (incl. 5% breakage). Materials: 0.25m <sup>3</sup> of building sand. 2 bags of cement. 2 rolls of 20m x 150mm x 2.8mm brickforce installed at every second course	Sum.	1	R	R
B.3.4	PPS MS 4.4	Ventilation bricks - 190mm	No.	14	R	R
B.3.5	PPS MS 4.5	Plasterwork to all walls (320m <sup>2</sup> ) including dip tank (35m <sup>2</sup> ), both sides 10mm thick.	m <sup>2</sup>	355	R	R
<b>B.4</b>	<b>PPS F</b>	<b>WINDOWS, DOORS AND FITTINGS</b>				
B.4.1	PPS F 7.1	Durowin Code SS33 (1 445mm x 987mm) windows, fitted and glazed (floated glass, 4mm thick)	No.	10	R	R
B.4.2	PPS F 7.2	Steel door frames: 2 032mm x 813mm x 234mm	No.	3	R	R
B.4.3	PPS F 7.2	Steel door frame: 2 032mm x 813mm x 154mm	No.	1	R	R
B.4.4	PPS F 7.3	Solid fully meranti 4/8 panel hard wood <b>stable</b> doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.3	Solid fully meranti 4/8 panel hard wood doors to fit door frames 2032mm x 813mm	No.	2	R	R
B.4.5	PPS F 7.4	Guillotine gate as per Drawing 7 A & B (SHP/RDN/2020/033) –PPS F5	No.	2	R	R
B.4.6	PPS F 7.5	Industrial heavy duty roll-up steel door Dimensions: 2100mm x 2 300mm) - PPS F4	No.	2	R	R
B.4.7	PPS F 7.6	5 000 litre polyethylene plastic tank, fittings, valves and anchored to tank base PPS F6	No.	2	R	R
B.4.8	PPS F 7.7	Tank base complete (Drawing 14)	No.	2	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION B: WOOL SHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>B.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
B.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer	m <sup>2</sup>	340	R	R
B.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat	m <sup>2</sup>	340	R	R
B.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA	m <sup>2</sup>	340	R	R
B.5.4	PPS P 6.4	Windows: 1 Coat Steel Primer and two (2) coats enamel paint to windows code SS33 (1 445mm x 987mm)	No.	10	R	R
B.5.5	PPS P 6.4	Door frames: 1 Coat steel primer and two (2) coats enamel paint to steel door frames (2 032mm x 813mm x <b>234</b> mm)	No.	3	R	R
B.5.6	PPS P 6.4	Door frame: 1 Coat steel primer and two (2) coats enamel paint to steel door frame 2032mm x 813mm x <b>154</b> m	No.	1	R	R
B.5.7	PPS P 6.5	Doors: 2 Coats exterior UV resistant varnish	No.	4	R	R
B.5.8	PPS P 6.6	Painting of purpose made guillotine gates as per Drawing 07 (SHP/RDN/2020/032). Two coats of red oxide steel primer	No.	2	R	R
<b>B.6</b>	<b>PPS R</b>	<b>ROOF</b>				
B.6.1	PPS R11.1	Roof structure complete, designed, fitted and certified. Including trusses (PPS R1 & 2), purlins & hurricane clips (R3).	Sum	=====	=====	R
B.6.2	PPS R 11.2	Chromadek & polycarbonate (10x) roof sheets as per PPS R8.1 - 8.5, supplied & fitted as per Drawing 4 (SHP/RDN/2020/028	Sum	=====	=====	R
B.6.3	PPS R 11.3	155mm x 100mm Industrial Ogee Aluminium Seamless gutters completed and fitted (R7)	m	41.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION B – WOOLSHED (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B.6.4	PPS R 11.4	105mm x 75mm Aluminium down pipes completed and fitted (R7)	Lump Sum	=====	=====	R
B.6.5	PPS R 11.5	Fibre-cement barge board (PPS R5) (225 x 80 x 10mm) and fascia boards (R4) (225 x 10), completed and fitted.	Sum	=====	=====	R
B.6.6	PPS R11.6	Alufoil insulation (PPS R9)	m <sup>2</sup>	150	R	R
B.6.7	PPS R11.7	Metal turbine ventilator 300mm throat	No.	2	R	R
B.6.8	PPS R11.6	Ceiling for office. Complete as per PPS R10. See Drawing 06 (SHP/RDN/2020/031)	Lump Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	



**6. SIHLEZA, UMZIMKHULU**

**SECTION C: VIP LATRINE (2 X)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
C.1.1		EXCAVATIONS				
C.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	32.0	R	R
C.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and mount and dispose of excess materials	m <sup>3</sup>	14.0	R	R
C.1.2		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
C.1.2.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	=====	R	Rates only
C.1.2.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	=====	R	Rates only
<b>C.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
C.2.1	PPS C 17.2	Mass concrete pit floors - 20 MPa to foundations. 2.70m x 2.70m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.2	PPS C 17.4	Reinforced concrete slab - 30 MPa floor to Pit Toilet 3.20m x 2.30m x 125mm	m <sup>3</sup>	1.8	R	R
C.2.3	PPS C 17.5	Steel reinforcement to concrete slab. Ref 395 – two sheets. See Drawing 15.	Sum	=====	=====	
C.2.4	PPS C 17.6.2	DPC 375 micron to 150mm wide walls	m	20.0	R	R
C.2.5		Pre-stressed concrete lintels				
C.2.5.1	PPS C 17.3	1.50m x 140mm x 75mm lintels to doors	No.	2	R	R
<b>C.3</b>	<b>PPS MS</b>	<b>MASONRY WORKS</b>				
C.3.1	PPS MS 4.3	Pit and superstructure walls: M150mm cement blocks. 2 x 300 = 600 blocks. 14.4 m <sup>2</sup> (pit) + 10.8 m <sup>2</sup> (superstructure) = 25.2m <sup>2</sup> per toilet	m <sup>2</sup>	50.4	R	R
C.3.2	PPS MS 4.5	Plasterwork (10mm thick) for superstructure <i>only</i> on inside and outside. 21.6m <sup>2</sup> per toilet	m <sup>2</sup>	43.2	R	R
<sup>1</sup> All quantities are for 2 latrines <<<						
<b>Total Carried Forward to Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION C: PIT TOILET (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY <sup>1</sup>	RATE	AMOUNT
<b>C.4</b>	<b>PPS F</b>	<b>DOORS AND FITTINGS</b>				
C.4.1	PPS F 7.2	<b>Meranti</b> (dimensions as per drawing) doorframe OR Heavy duty <b>steel</b> doorframe (14 ga/1.6mm min. Dimensions: 2 032mm x 813mm x 150mm (PPS-F2)	No.	2	R	R
C.4.2	PPS F 7.3	Pine ledged and braced batten door 1750/1850 x 760 x 40 mm (battens and braces to be 20mm thick) (PPS - PT5)	No.	2	R	R
C.4.3	PPS PT 5.2	Pedestal: Plastic. With toilet seat & cover. Height: 500mm high. PPS – PT3	No.	2	R	R
C.4.4	PPS PT 5.3	Ventilation pipes: 3m x 110mm PVC – Black PPS – PT4	No.	2	R	R
<b>C.5</b>	<b>PPS P</b>	<b>PAINTING</b>				
C.5.1	PPS P 6.1	Walls: 1 Coat Plaster Primer Spreading rate: 8m <sup>2</sup> /L. Required: 6L.	m <sup>2</sup>	43.2	R	R
C.5.2	PPS P 6.2	Walls: 1 Coat Universal Undercoat Spreading rate: 6m <sup>2</sup> /L. required: 8L.	m <sup>2</sup>	43.2	R	R
C.5.3	PPS P 6.3	Walls: 2 Coats Acrylic PVA (off-white/beige) Spreading rate: 9m <sup>2</sup> Required: 10L.	m <sup>2</sup>	43.2	R	R
C.5.4	PPS P 6.4	<u>Door frames (steel)</u> : 1 Coat steel primer (1L) and two (2) coats enamel paint (1L) OR <u>Doorframes (meranti)</u> : 3 coats of varnish (light oak). 1 <sup>st</sup> & 2 <sup>nd</sup> diluted with tur-pentine 25% & 10% respectively). Req'd: 1L	No.	2.0	R	R
C.5.5	PPS P 6.5	<u>Doors</u> : 3 Coats exterior UV resistant varnish. 3 coats (1 <sup>st</sup> & 2 <sup>nd</sup> diluted). Required: 3L.	No.	2.0	R	R
<b>C.6</b>	<b>PPS PT</b>	<b>ROOF</b>				
B.6.1	PPS PT 6.1	Roof structure complete, fitted and certified	Sum	=====	=====	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION D: DIP TANK**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>D.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
D.1.1		EXCAVATIONS				
D.1.1.1	PPS EW 4	Remove topsoil and stockpile	m <sup>2</sup>	27	R	R
D.1.1.2	PPS EW 4	Excavate in all materials and use for backfill and dispose of excess materials	m <sup>3</sup>	13.8	R	R
D.1.1.3		EXTRA OVER FOR EXCAVATION IN HARD MATERIALS				
D.1.1.3.1	PPS EW 4	Intermediate excavation	m <sup>3</sup>	TBA	R	Rates only
D.1.1.3.2	PPS EW 4	Hard Rock excavation	m <sup>3</sup>	TBA	R	Rates only
<b>D.2</b>	<b>PPS C</b>	<b>CONCRETE WORKS</b>				
D.2.1	PPS C 17.4	Reinforced concrete floor and steps for diptank- 25 MPa dipping facility as per Drawing 9 – SHP/RDN/2020/031. Including steel reinforcement (mesh, rebar and angle iron with fish tails). PPS-D2	m <sup>3</sup>	1.9	R	R
D.2.3	PPS C 17.1	20MPa/19mm mass concrete slabs 100mm thick for entry and exit areas around diptank. 14 + 15 = 29 m <sup>2</sup> in total. PPS D4	m <sup>3</sup>	2.9	R	R
<b>D.3</b>	<b>PPS MS</b>	<b>MASONRY WORK</b>				
D.3.1	PPS MS 4.2	Dip Tank walls: 230mm - Burnt Clay brick walls. 25m <sup>2</sup> @ 55bricks/m <sup>2</sup> = 2665 bricks	Lump Sum	=====	=====	R
D.3.2	PPS MS 4.6	Smooth formwork to vertical plane for diptank steps (21 steps + chamfering lats)	m <sup>2</sup>	10.0	R	R
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 6. SIHLEZA, UMZIMKHULU

### SECTION E: SECURITY FENCING

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.1</b>	<b>PPS EW</b>	<b>EARTH WORKS</b>				
E.1.1		EXCAVATIONS				
E.1.1.1	PPS EW 4	Excavate in all materials for fence posts and stays and dispose of excess materials	m³	5.2		
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
		<i>Fence description: 1.80m high weld mesh fence with barbed wire and 500mm flat wrap razor coils on top. Total height: 2.2m. Corner and gate posts to be round steel tubing, with 2.4m Y-standards at 2.5m centres as intermediate posts. Total length: 125m</i>				
E.2.1	PPS SF6.1	Labour and supervision costs for the erection of a 2.3m high standard security fence around the premises as per Drawings 10, 11 & 13.	Lump Sum	=====	=====	R
E.2.2		Extra-over on Item E.2.1 for the supply and delivery of:				
E.2.2.1	PPS SF6.2	Corner / Gate posts (fully galv. mild steel post, capped. Dimensions: 3.00m x 100mm OD x 3.1mm – PPS SF2.1	No.	6		
E.2.2.2	PPS SF6.2	Intermediate posts (fully galvanized mild steel posts, capped. Dim.3.00m x 90mm OD x 2.5mm. PPS SF2.2	No.	13		
E.2.2.3	PPS SF6.2	Stays (fully galvanized mild steel stays, Dim. 2.4m x 48mm OD x 2.5mm. PPS SF2.3	No.	35		
E.2.2.4	PPS SF6.2	Steel Y-section iron standards – 2.4m.SF2.4	No.	30		
E.2.2.5	PPS SF6.2	4mm fully galv. mild steel zinc coated wire - 5kg/50m rolls. PPS SF3.1	No.	10		
E.2.2.6	PPS SF6.2	2.5mm "Iowa"-type double strand fully galv. mild steel barbed wire - 540m roll. SF3.1	No.	1		
E.2.2.7	PPS SF6.2	1830mm x 100mm x 50mm x 2.5mm welded mesh, 30m roll. PPS SF3.1	No.	5		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

<b>6. SIHLEZA, UMZIMKHULU</b>
-------------------------------

**SECTION E: SECURITY FENCING (CTD)**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>E.2</b>	<b>PPS SF</b>	<b>SECURITY FENCE AROUND PREMISES</b>				
E.2.2.8	PPS SF6.2	Razor flat wrap coils 500mm x 15m roll. PPS/SF3.2	No.	9		
E.2.2.9	PPS SF6.2	1.6mm fully galvanized mild steel zinc coated binding wire - 50kg roll. PPS SF3.1	No.	2		
E.2.2.10	PPS SF6.3	Double leafed/framed heavy duty entry gate 3.6m x 2.3m as per PPS SF4 & Drawing 13B (FEN/RDN/2020/038), including concrete footings (0.5m <sup>3</sup> ). PPS SF4	No.	1		
E.2.2.11	PPS C17.1	15 MPa/13mm concrete footing for the security fencing posts, but excluding the footings for the main gate. PPS SF5 Materials: 28 bags of cement. Sand: 2.7m <sup>3</sup> . 13mm stone: 3.2m <sup>3</sup> .	m <sup>3</sup>	5.2		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

**6. SIHLEZA, UMZIMKHULU**

**SECTION F: ANIMAL HANDLING FACILITIES**

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>F.1</b>		<b>FENCING</b>				
F.1.1	PPS HF3.1	CCA treated gate & corner poles: 1.80m x 100/125mm		25		
F.1.2	PPS HF3.1	CCA treated box & intermediate posts: 1.80m x 75/100mm		66		
F.1.3	PPS HF3.1	CCA treated poles 1.50m x 75/100mm		13		
F.1.4	PPS HF3.1	CCA treated braces 900mm (24*1.80m x 75/100mm) cut in two pieces		13		
F.1.5	PPS HF3.1	CCA treated laterals 3.60m x 75/100mm		5		
F.1.6	PPS HF3.1	Hinged joint fencing (galv.) top hor. strand closer than bottom ones 1.20m with verticals at 150mm. Rolls of 30m length		3		
F.1.7	PPS HF3.1	High tensile steel wire 2.25mm. Rolls of 5kg/130m		4		
F.1.8	PPS HF3.1	Staples 25mmx 2.5mm - Packs of 0.5kg/225/pk		5		
F.1.9	PPS HF3.1	Hoop iron (galv.) 400 x 30 x 1.0mm		17		
F.1.10	PPS HF3.1	15 MPa/13mm concrete for 67 footings 400 x 400 x 600mm. Total volume cured: 6.3m <sup>3</sup> Cement: 29 bags <> Sand: 3.1m <sup>3</sup> <> Stone (13mm): 4.1m <sup>3</sup>	m <sup>3</sup>	6.3		
<b>F.2</b>		<b>GATES</b>				
F.2.1	PPS HF3.2	Heavy duty farm gate, 2.4m x 1.2m	No.	3		
F.2.2	PPS HF3.2	Heavy duty farm gate, 1.2m x 1.2m	No.	10		
F.2.3	PPS HF3.2	Heavy duty farm gate, 0.9m x 1.2m	No.	8		
<b>Total Carried Forward To Summary &gt;&gt;</b>					<b>R</b>	

## 6. SIHLEZA, UMZIMKHULU

## SECTION G: ADDITIONAL WORK

ITEM #	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G.1		CONSTRUCTION OF A CUT OFF DRAIN				
		<i>Description: cutting and compaction of a cut off V-drain above the woolshed. See PPS AW1 &amp; Figure 10.</i>				
G.1.1	PPS AW2	Cutting of a V-drain of 3m wide and 75-100m long above the woolshed	m <sup>3</sup>	50		
G.1.2	PPS AW2	Compaction of the V-drain to 90% Mod AASHTO	m <sup>2</sup>	250		
G.1.3	PPS A.3.3	Compaction testing	=As=	=per=	===A.3.3==	=====
Total Carried Forward To Summary >>					R	

**ANNEXURE B | CONTRACTOR'S HEALTH AND SAFETY DECLARATION****Contractors Health and Safety Declaration**

In terms of Clause 5(1)(h) of the OHSA 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Department is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2014.

To that effect a person duly authorised by the bidder must complete and sign the declaration hereafter in detail.

**Declaration by Bidder**

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2014.
2. I hereby declare that my company has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Department's Health and Safety Specifications.
3. I hereby confirm that adequate provision has been made in my tendered rates and prices in the Bill of Quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2014, including the cost of the specific items listed in the tables hereafter.

*(Tables to be completed by bidder)*

**TABLE 1: COST OF SAFETY PERSONNEL**

PERSONNEL	COSTS AS ALLOWED IN BID	NOMINATED PERSON/S
Construction Supervisor		
Construction Safety Officer		
Health & Safety Representatives		
Health and Safety Committee		

**TABLE 2: COST OF SAFETY EQUIPMENT**

EQUIPMENT	STATE YES or NO	COST ALLOWED FOR IN BID
Hard hats		
Safety boots		
Add items as per risk assessment:		



4. I hereby undertake, if my bid is accepted, to provide, before commencement of the works under the contract, a suitable and sufficiently documented Health and Safety Plan in accordance with Regulation 7(1)(a) of the Construction Regulations, which plan shall be subject to approval by the Department.
5. I confirm that copies of my company's approved Health and Safety Plan, the Department's Safety Specifications as well as the OHSA 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Department's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
6. I hereby confirm that, I will be liable for any penalties that may be applied by the Department in terms of the said Regulations (Regulation 33) for failure on the Contractor's part to comply with the provisions of the Act and the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Department will mean that I am unable to comply with the requirements of the OHSA 1993 Construction Regulations 2014, and accept that my bid will be prejudiced and may be rejected at the discretion of the Department.

**SIGNATURE OF BIDDER .....** **DATE .....**

*(of person authorised to sign on behalf of the Bidder)*

**ANNEXURE C****ADDITIONAL INFORMATION (1 + 2)****A) EQUIPMENT & RESOURCES:**

Please provide an indication of the equipment and resources which will be available to execute the services required:

NO.	EQUIPMENT AND RESOURCES AVAILABLE IN ORDER TO EXECUTE THE SERVICES:
1	
2	
3	
4	
5	

**B) SUB CONTRACTED WORKS:** Please list which parts of the works will be sub-contracted.

NO.	SUB CONTRACTOR WITH CONTACT DETAILS	ASSOCIATED WORKS
1		DESIGN OF ROOF STRUCTURE
2		ISSUING OF AN ENGINEERING CERTIFICATE FOR THE DESIGN AND CONSTRUCTION OF THE ROOF
3		
4		
5		

**ANNEXURE C | ADDITIONAL INFORMATION (3)**

**C) EXPERIENCE:** Please indicate your experience and expertise by completing the table:

No.	Name of project + Period	Project description	Role (self or sub- contracted)	Project value	Name and contact number of referee
1					
2					
3					
4					
5					

**ANNEXURE D |****PRELIMINARY CONSTRUCTION PROGRAMME**

## Preliminary Construction Program

The bidder shall submit a preliminary program reflecting the proposed sequence and duration of the various activities comprising the work for this Contract to include the projected cash flow for each activity. The program shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of his bid.

[Note: The program must be based on the completion time as specified in the Clause 59 of the Special Terms & Conditions.]

Note 2: The presented order of the works is not necessarily sequential, e.g. the fencing does not have to come after the construction of the shed

<b>PRELIMINARY CONSTRUCTION PROGRAMME FOR SHEARING SHED &amp; ANCILLARY WORKS</b>				
<b>NO.</b>	<b>PHASE DESCRIPTION</b>	<b>Starting date (No. of days/weeks after Site handover)</b>	<b>Completion date (No. of days/weeks after site hand over)</b>	<b>Duration (No. of days/ weeks)</b>
0	Site hand over	0	0	0
1	Site establishment			
2	Site clearing			
3	Site leveling			
	<b>SHEARING SHED</b>			
4	Excavate foundation trenches to level and compact. Installation of reinforcement if required.			
5	Casting of strip foundation (shed & ramp & stands)			
6	Curing of strip foundation			
7	Construction of foundation wall & tank stands walls			
8	Floor & tank stand bases (import base material & compact, DPC)			
9	Casting of shed floor, tank stand slabs and ramp			
10	Ordering of roof trusses			
11	Walls up to eaves level			
12	Installation of doors & windows			
13	Installation of roof trusses			
14	Installation of roof sheets, gutters and insulation			
15	Plastering of walls			
16	Painting			
17	Supply & installation of water tanks			

>> Continued on next page>>

<b>PRELIMINARY CONSTRUCTION PROGRAMME FOR SHEARING SHED &amp; ANCILLARY WORKS (CTD)</b>				
<b>NO.</b>	<b>PHASE DESCRIPTION</b>	<b>Starting date (No. of days/weeks after Site handover)</b>	<b>Completion date (No. of days/weeks after site hand over)</b>	<b>Duration (No. of days/ weeks)</b>
	<b>TOILETS</b>			
18	Excavation of storage pits with foundation trenches			
19	Casting of concrete slab/ foundations at pit bottom			
20	Construction of pit walls			
21	Placement of concrete slabs			
22	Construction/Installation of superstructure			
	<b>ANIMAL HANDLING FACILITIES</b>			
	<i>Holding pens</i>			
23	Holding pens with gates on south side of building			
	<i>Diptank</i>			
24	Erection of handling facilities on north & west sides			
25	Excavation of pit and leveling & compaction of approach & exit areas			
26	Formwork and reinforcement for dip tank walls & approaches			
27	Casting of concrete for dip tank walls & approaches			
	<b>FINISHING</b>			
28	Site de-establishment			
29	Clearing of the site of all building rubble			
30	Site hand over			

PROPOSED CONSTRUCTION PERIOD \_\_\_\_\_ WEEKS

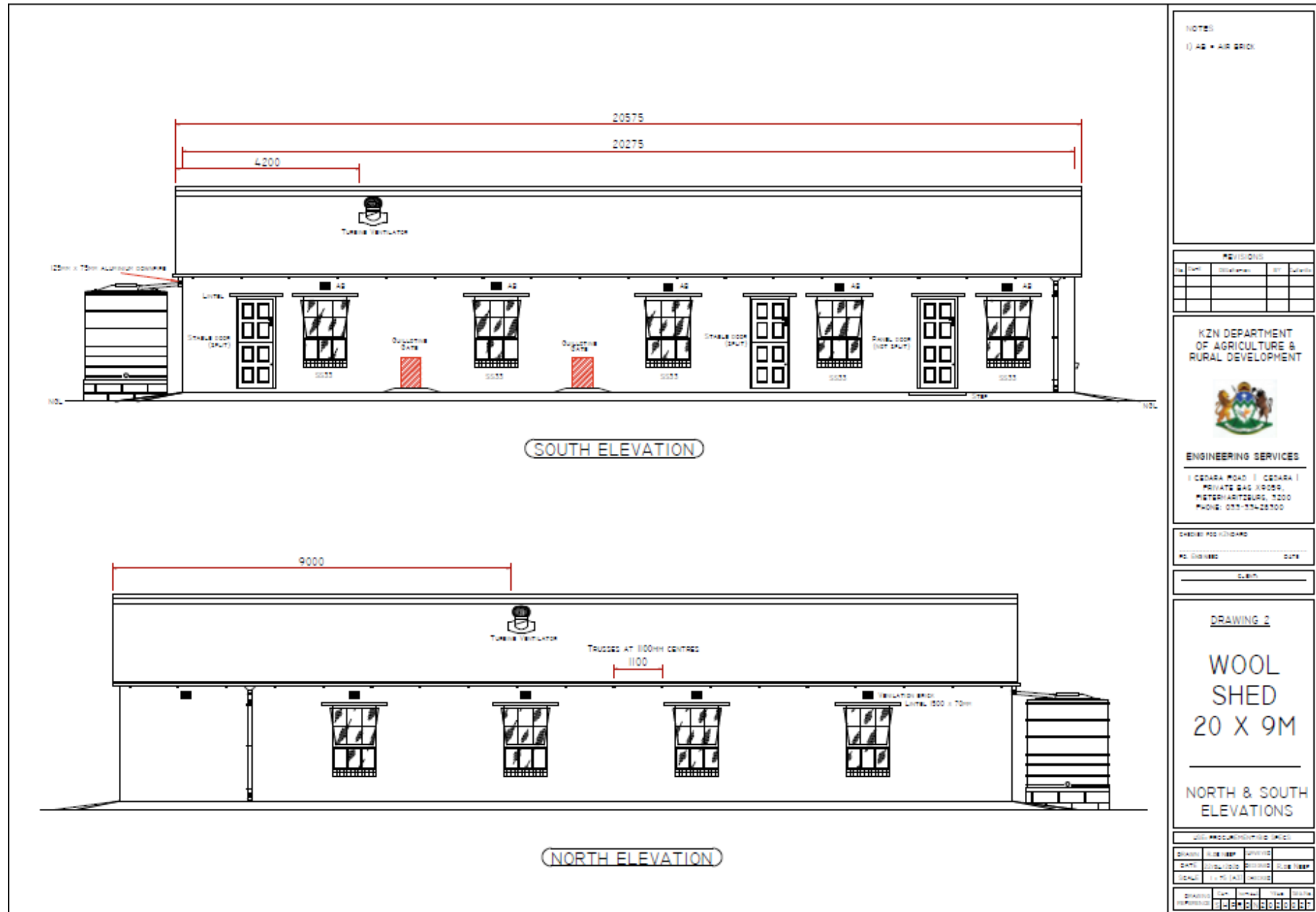
DATE . .....

**SIGNATURE OF TENDERER** .....  
(of person authorised to sign on behalf of the Tenderer)

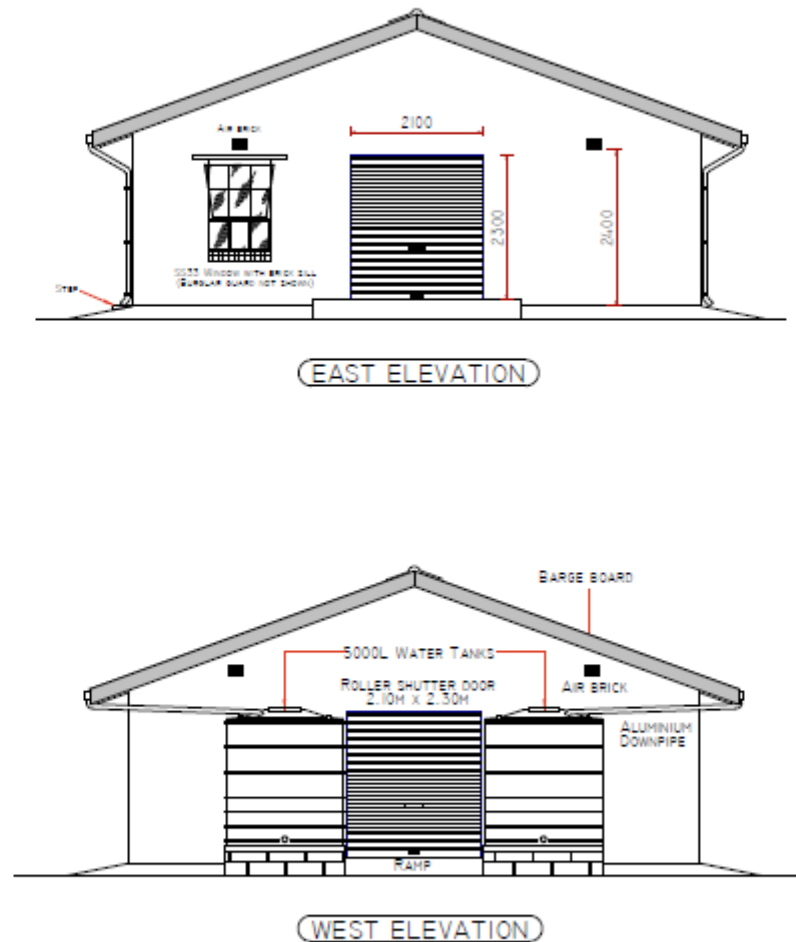
**ANNEXURE E****DRAWINGS**

<b>LIST OF DRAWINGS</b>			
<b>NUMBER</b>	<b>REFERENCE</b>	<b>TITLE</b>	<b>PAGE</b>
DR01	SHP/RDN/2020/026	WOOLSHED 20 X 9M - PLAN	
DR02	SHP/RDN/2020/027	WOOLSHED 20 X 9M – NORTH & SOUTH ELEVATIONS	
DR03	SHP/RDN/2020/028	WOOLSHED 20 X 9M – EAST & WEST ELEVATIONS	
DR04	SHP/RDN/2020/029	WOOLSHED 20 X 9M – TOP VIEW	
DR05	SHP/RDN/2020/030	WOOLSHED 20 X 9M - FOUNDATIONS	
DR06	SHP/RDN/2020/031	WOOLSHED 20 X 9M – SECTION A-A	
DR07	SHP/RDN/2020/032	WOOLSHED 20 X 9M – GUILLOTINE GATE AND BRICKWORK	
DR08	OTH/RDN/2020/033	BURGLAR GUARDS FOR SS33 STEEL WINDOWS	
DR09	SHP/RDN/2020/034	WOOLSHED 20 X 9M – DIPTANK	
DR10	SHP/RDN/2020/035	WOOLSHED 20 X 9M – HANDLING FACILITIES & FENCING - SUMMARY	
DR11	SHP/RDN/2020/036	WOOLSHED 20 X 9M – SECURITY FENCING - PLAN	
DR12	SHP/RDN/2020/037	WOOLSHED 20 X 9M – HANDLING FACILITIES - PLAN	
DR13	FEN/RDN/2020/038	WOOLSHED 20 X 9M - FENCING & HANDLING FACILITIES - ELEVATIONS	
DR14	TAN/RDN/2014/023	TANK STAND FOR 2000-5000L TANKS	
DR15	TOI/RDN/2010/001	VENTILATED IMPROVED PIT LATRINE	









NOTES

REVISIONS

No.	Date	Description	By	Checked

KZN DEPARTMENT  
OF AGRICULTURE &  
RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDUNA ROAD | CEDUNA |  
PRIVATE BAG 30009,  
PIETERMARITZBURG, 3200  
Phone: 033-334-26700

CUSTOMER INFORMATION

NO. ENGINEER DATE

CURRY

DRAWING 3

WOOL  
SHED  
20 X 9M

EAST & WEST  
ELEVATIONS

USE PREPARED/ISSUED SHEET

DRAWN	CHECKED	DATE	DATE	DATE	DATE



DISCUSSIONS				
No.	Date	Discussion	By	Called

KZN DEPARTMENT  
OF AGRICULTURE &  
RURAL DEVELOPMENT



## ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA |  
PRIVATE BAG X9089,  
PIETERMARITZBURG, 3200  
PHONE: 033-334-28300

**CHANGES FROM PREVIOUS EDITIONS**

**92. Divergence:** 0.479

51

DRAWING 5

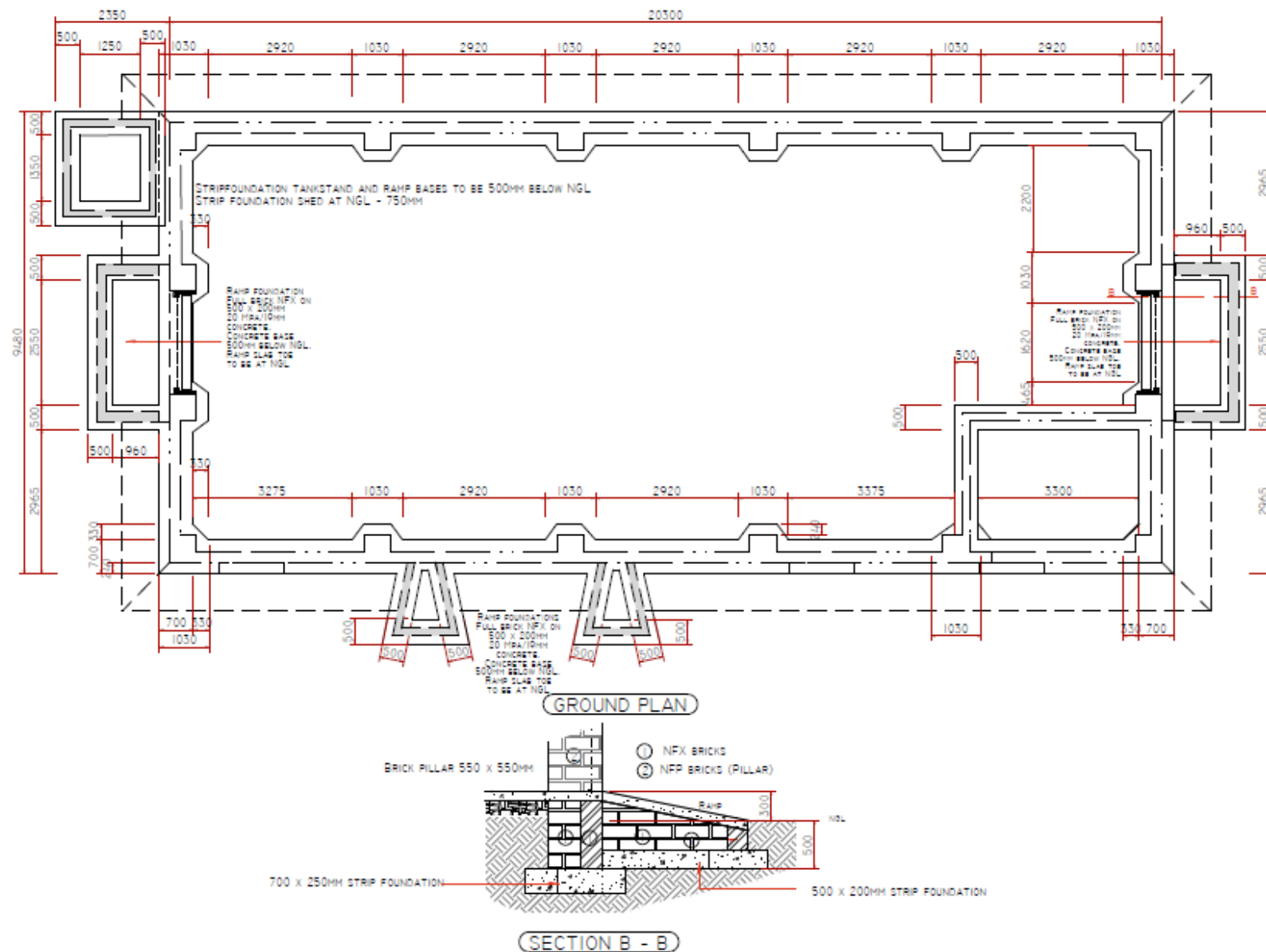
SHEEP  
SHEARING  
SHED  
20 X 9M

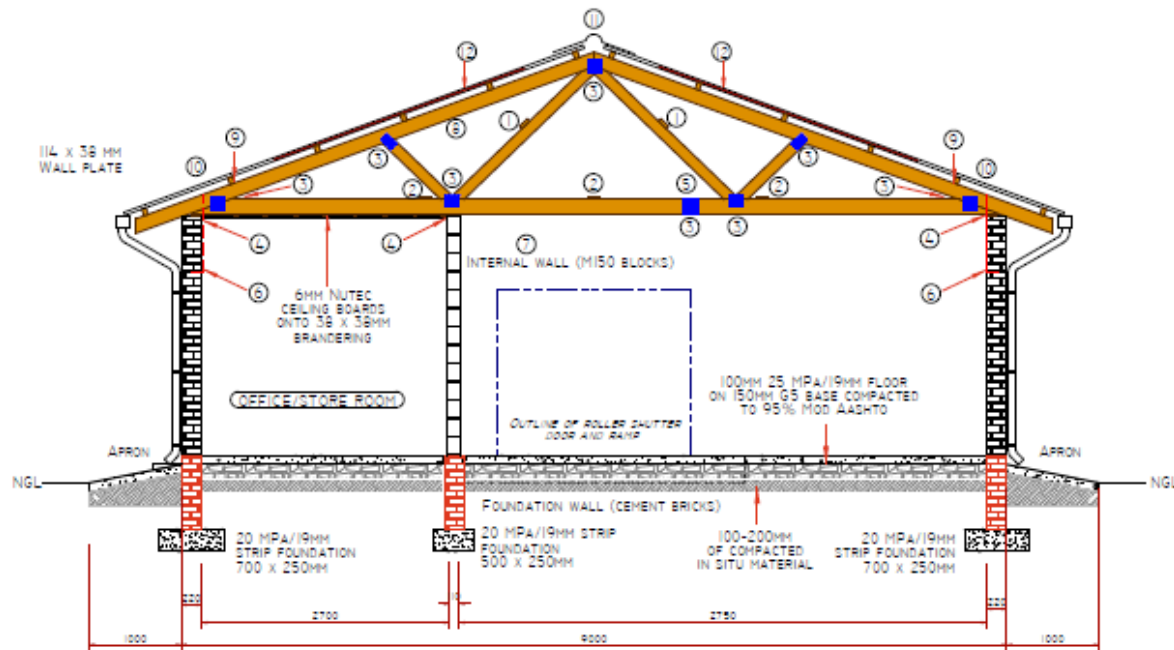
## FOUNDATIONS

www.mhhe.com/9780073398131

CRASH	ALICE	BOB	CHARLIE
DATE	25/09/2016	26/09/2016	27/09/2016

DATE	11/15/2023	TIME	10:00 AM
BY	11/15/2023	TIME	10:00 AM





KEY	
① WEB RUNNERS 114 x 38MM	⑦ BOTTOM CHORD
② BOTTOM CHORD RUNNERS 114 x 38MM	⑧ TOP CHORD (RAFTER)
③ NAIL/TRUSS PLATES	⑨ PURLIN 50 x 75MM
④ WALL PLATE 114 x 38 MM	⑩ 1BR ROOFSHEETS 5.40M x 0.54MM
⑤ SPLICE JOINT	⑪ ROOFCAP
⑥ HOOP IRON STRAP 8 ROWS FROM TOP, 30 x 1.2MM PRE-PUNCHED. SEE PPS R2.2	⑫ POLYCARBONATE ROOFSHEET (OPAL WHITE) 3.00M

NOTES

REVISIONS

No.	Date	Description	By	Check

KZN DEPARTMENT  
OF AGRICULTURE &  
RURAL DEVELOPMENT


ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA |  
PRIVATE BAG 10009,  
PIETERMARITZBURG, 3200  
PHONE: 033-334-28700

CHECKED FOR: RICHARD

NO. ENGINEER DATE

CITY

DRAWING: A

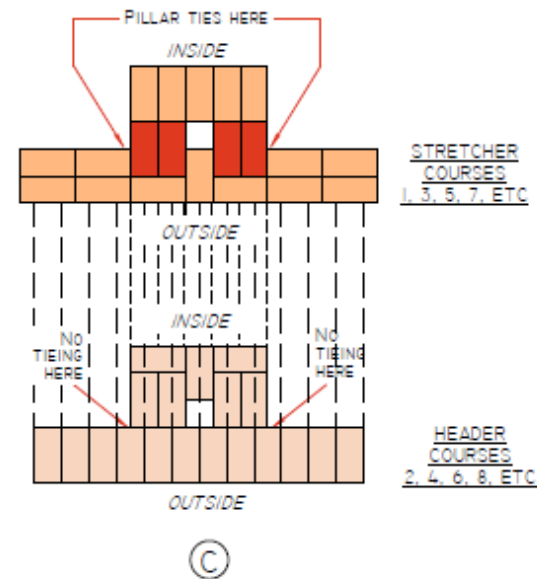
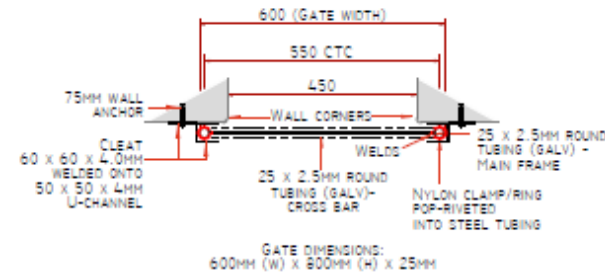
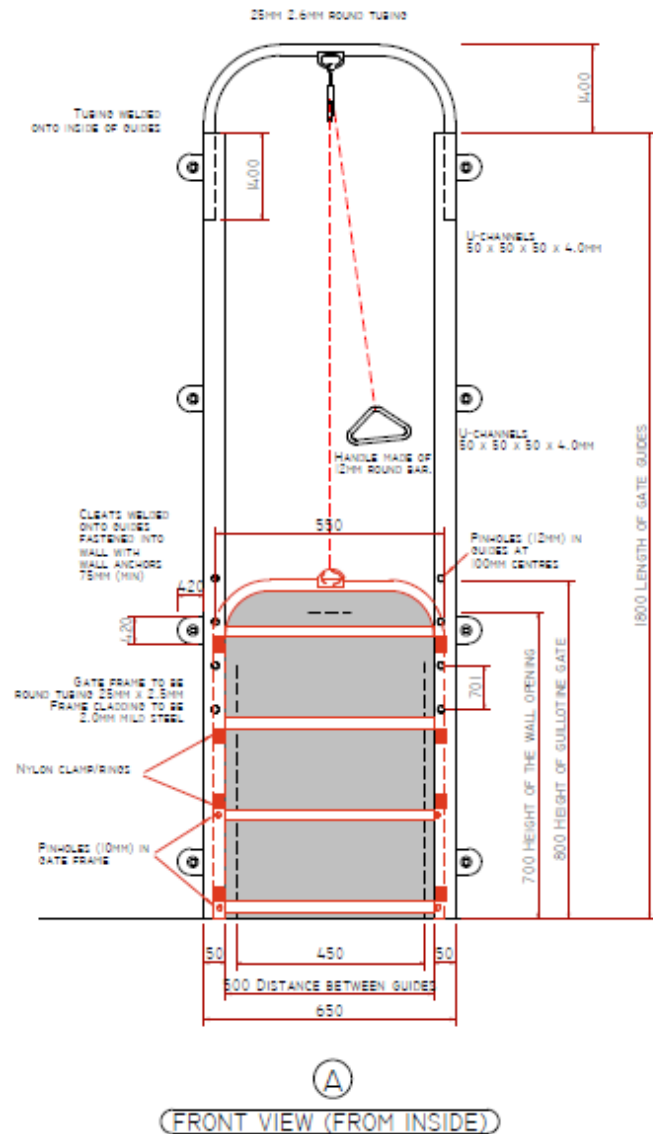
SHEEP  
SHEARING  
SHED  
20 X 9M

SECTION A - A

USE: PRODUCE/STOCKS (PICK)

DRAWN	BY	DATE	REVISION	DATE	REVISION

DATE	BY	DATE	REVISION	DATE	REVISION



NOTES

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHECKED

KZN DEPARTMENT  
OF AGRICULTURE &  
RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA |  
PRIVATE BAG 10000,  
PIETERMARITZBURG, 3200  
PHONE: 033-33428100

DRAWING NO. 100000

NO. 100000 DATE

CHECKED

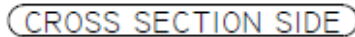
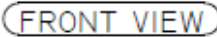
DRAWING 7

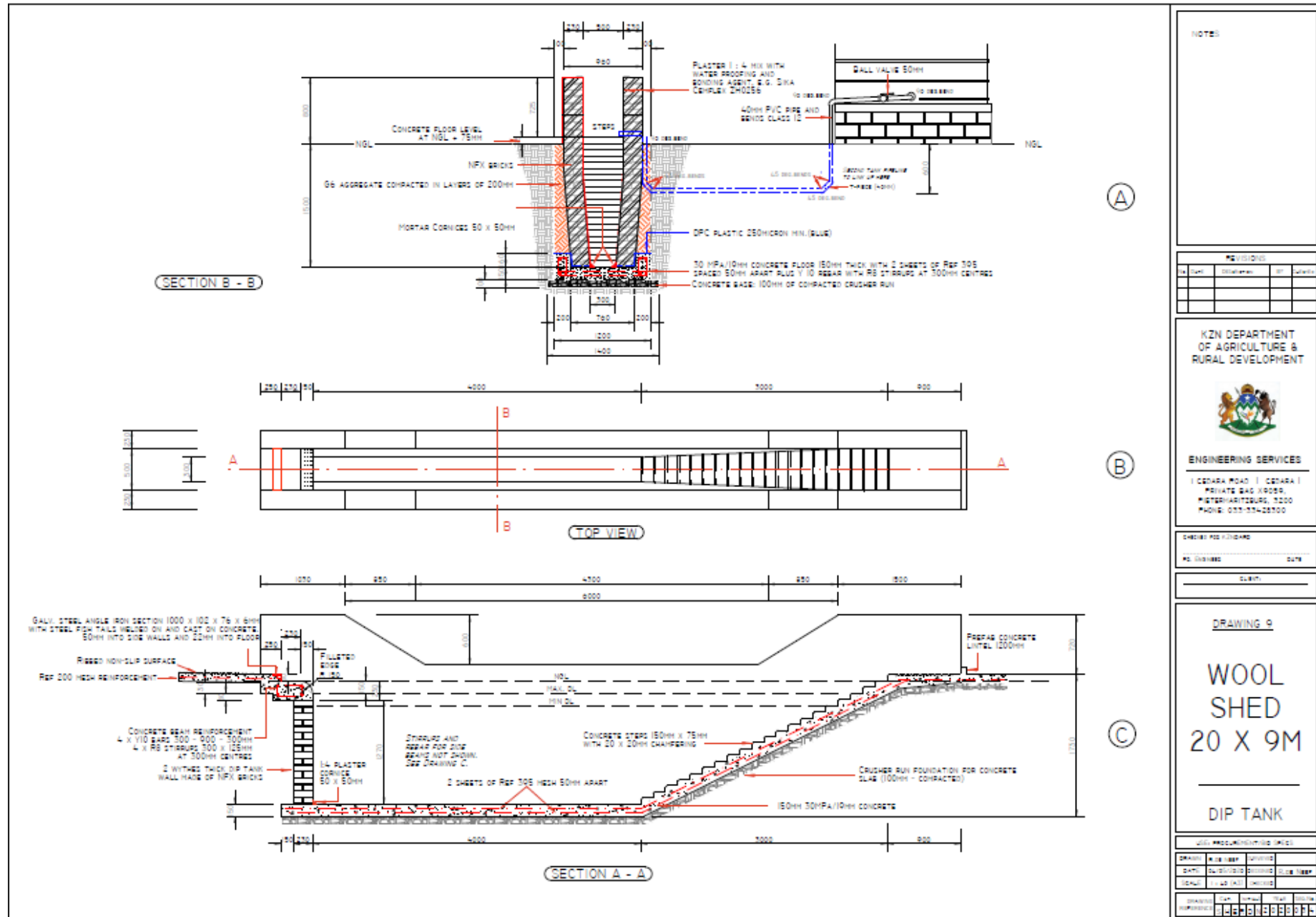
SHEEP  
SHEARING  
SHED  
20 X 9M

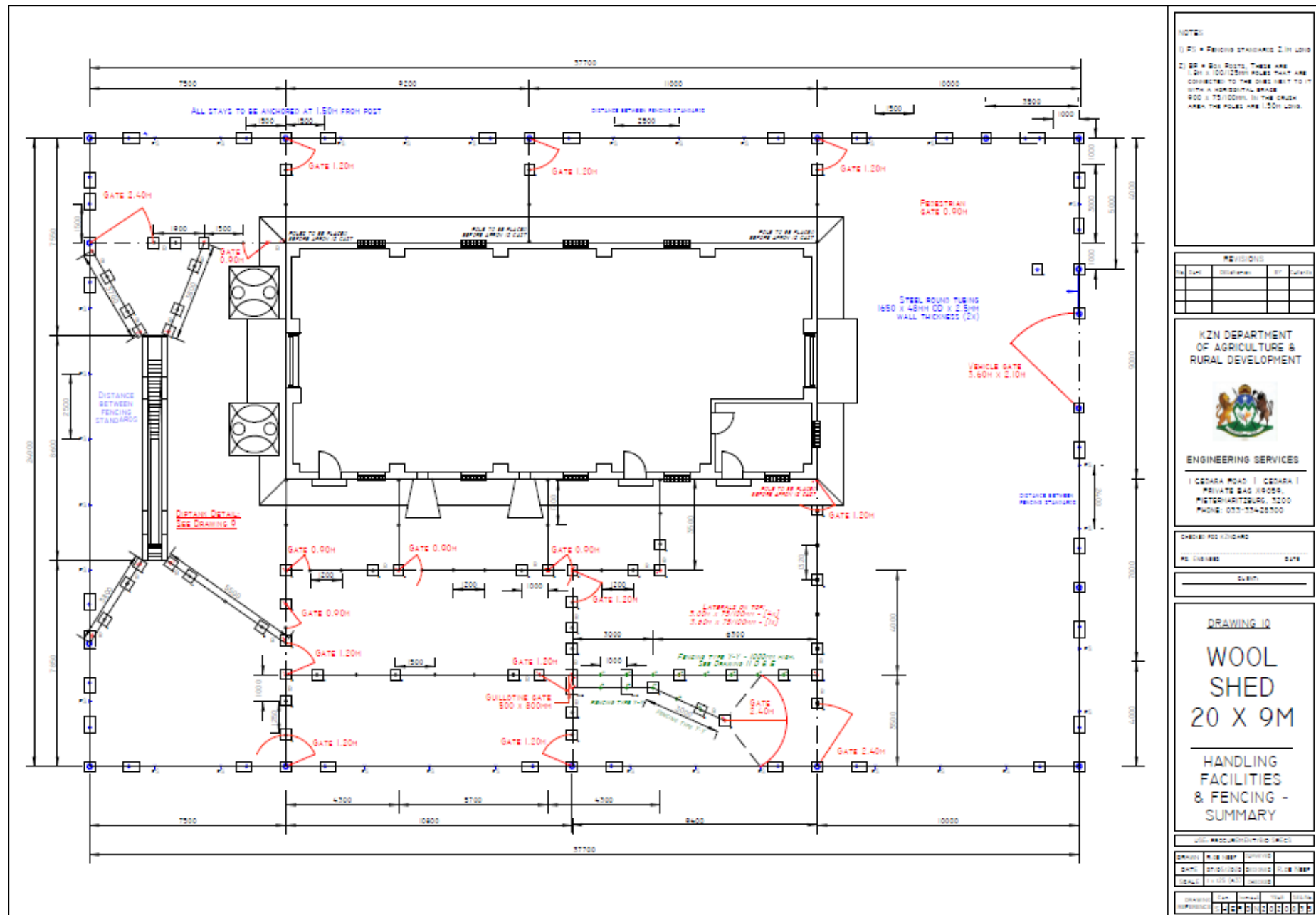
GUILLOTINE GATE  
& BRICKWORK

LIST OF EQUIPMENT AND MATERIALS

ITEM	QUANTITY	UNIT	PRICE	TOTAL









- 2) GP = GOLF POSTS, THERE ARE 1.5M X 100/25000 POLES THAT ARE CONNECTED TO THE ONE NEXT TO IT WITH A HORIZONTAL SPACE 900 X 75/10000. IN THE CRUSH AREA THE POLES ARE 1.50M LONG.

## REVISIONS

Pos.	Conteúdo	Classificação	DT	Conteúdo

KZN DEPARTMENT  
OF AGRICULTURE &  
RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA |  
PRIVATE BAG X9059,  
PIETERMARITZBURG, 3200  
PHONE: 033-334-28300

Page 10 of 10

PG. ENDS 0470

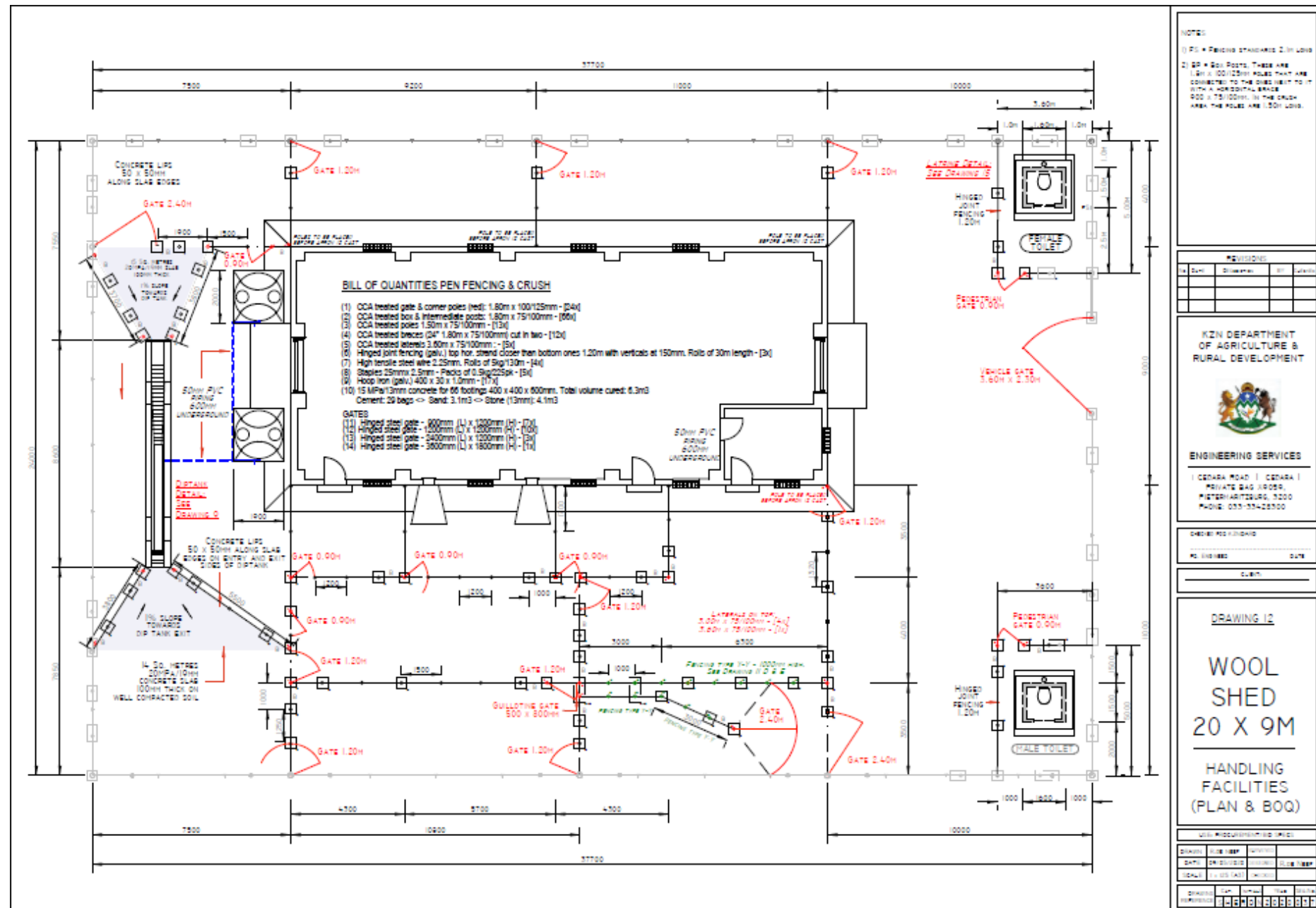
5.107

### DRAWING II

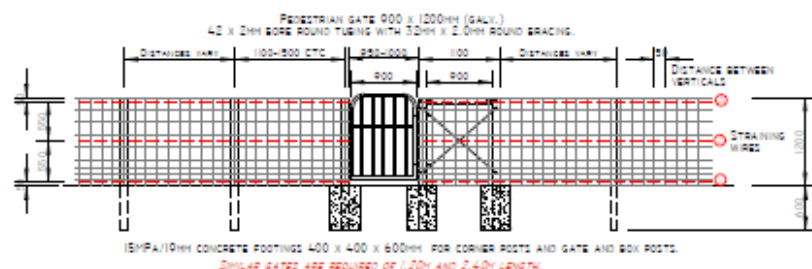
WOOL  
SHED  
20 X 9M

SECURITY  
FENCING  
(PLAN & BOQ)

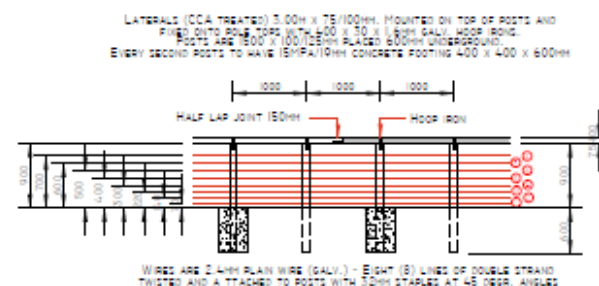
with **Predefined** the sales[illegible]



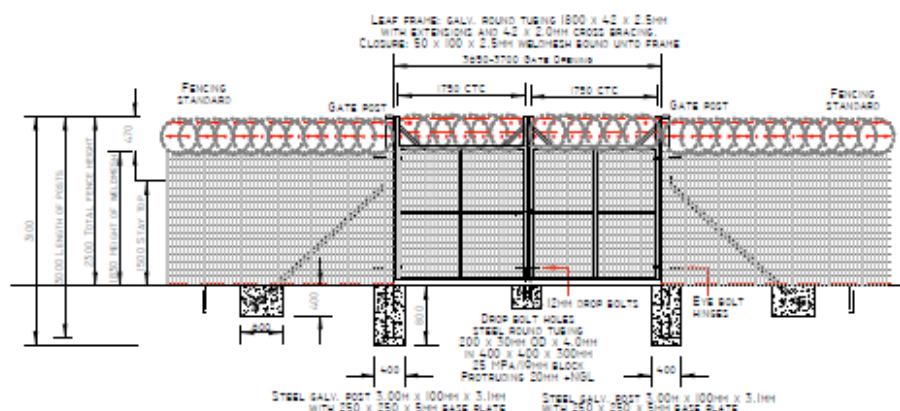
CONSTRUCTION OF A WOOLSHED



**A** HINGED JOINT PEN FENCING WITH GATE

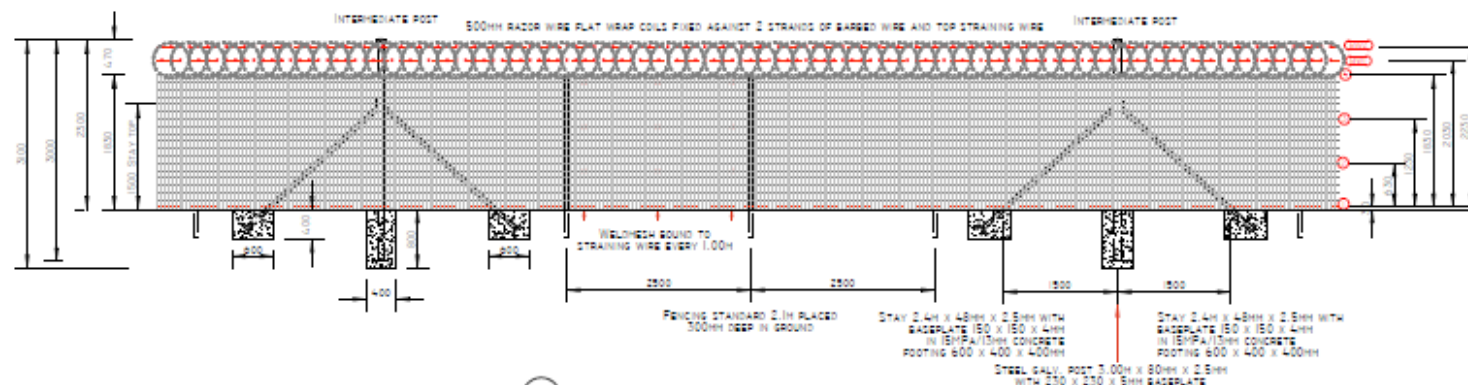


**D** CRUSH FENCING TYPE Y-Y



**B** GATE IN WELDMESH SECURITY FENCING

**E** DETAIL DOUBLE STRAND TWISTED STRAINING WIRE FOR CRUSH



**C** WELDMESH SECURITY FENCING

NOTES

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHECKED

KZN DEPARTMENT  
OF AGRICULTURE &  
RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDARA ROAD, 1 CEDARA  
P.O. BOX 1000, DURBAN  
P.O. BOX 1000, DURBAN  
P.O. BOX 1000, DURBAN

CHECKED FOR ISSUANCE

NO. OF SHEETS DATE

CURRY

DRAWING 13

WOOL  
SHED  
20 X 9M

FENCING &  
HANDLING  
FACILITIES  
(ELEVATIONS)

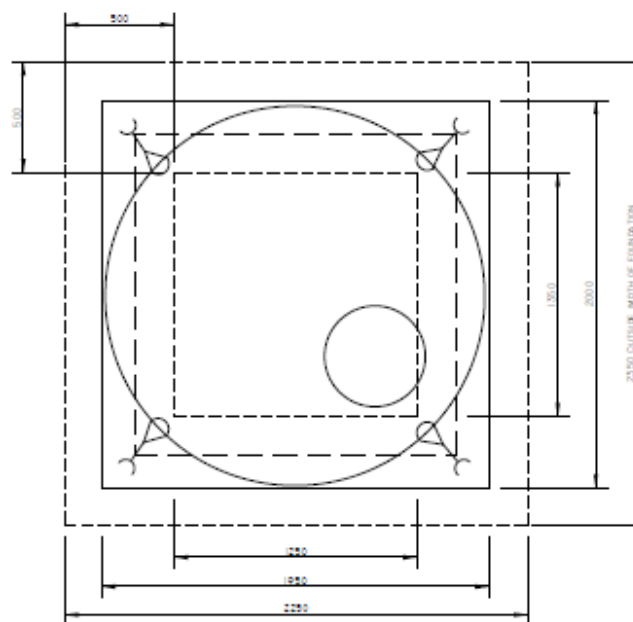
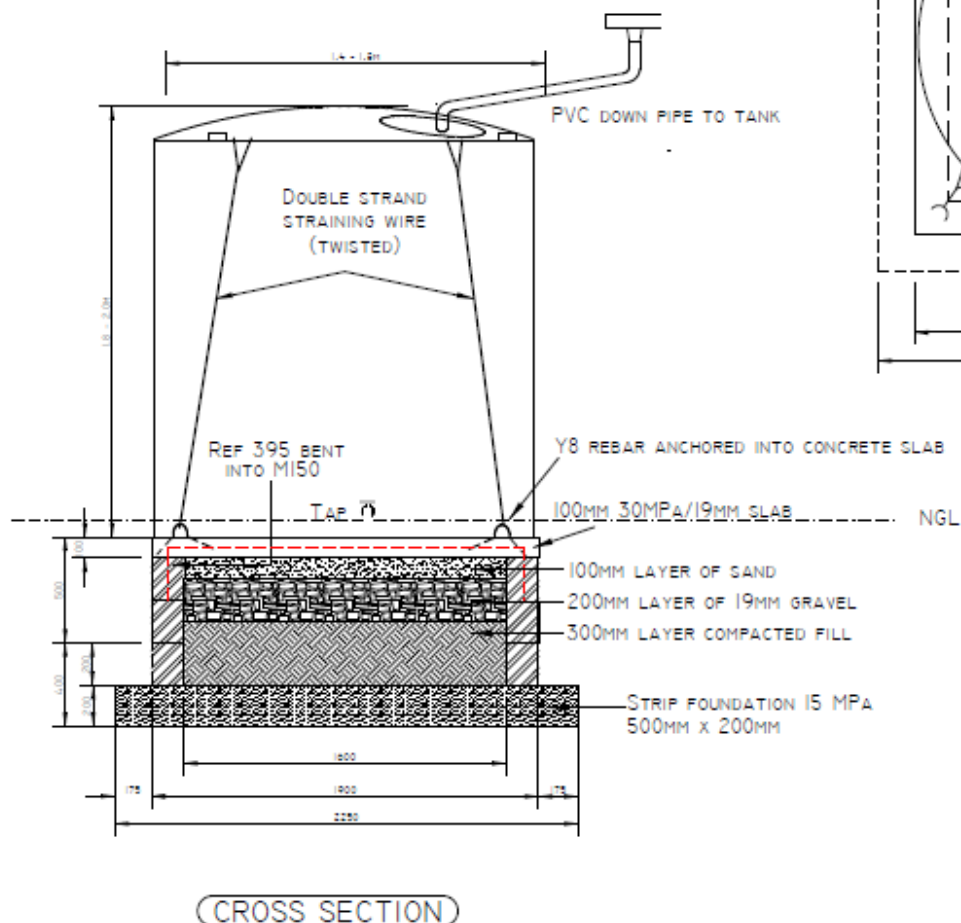
WELDMESH SECURITY FENCING

DATE	NO. OF SHEETS	DATE	NO. OF SHEETS

DATE	NO. OF SHEETS	DATE	NO. OF SHEETS

# NOTES

1. DIMENSIONS OF THE TANK STANDS 1.75M X 1.75M X 0.70M (0.5M ABOVEGROUND). ALL BLOCKS MORTAR FILLED
2. THREE COURSES OF BLOCKS ON 500 X 200MM 15 MPA STRIP FOUNDATION.
3. TANKS SECURED TO STAND WITH 4 TWISTED DOUBLE STRANDS OF STRAINING WIRE CONNECTED TO 4 Y8 STEEL STIRRUPS (LENGTH: 0.5M EACH) CAST IN FLOOR CONCRETE. STRANDS TO BE SLIGHTLY STRAINED.
4. CONNECTION WITH GUTTER WITH THREE 50MM DIAM. DOWNPIPE BENDS AND ONE 40MM DIAMETER STRAIGHT PVC PIECE, GLUED WITH PVC CEMENT AFTER INSPECTION OF CONNECTION.
5. BRASS LOCKABLE TAP WITH FITTINGS.



TOP VIEW

## BILL OF QUANTITIES MAIN BUILDING MATERIALS

- 1) POCKETS OF CEMENT: 8
- 2) UMGENI SAND: 1.0 CU.M
- 3) 19MM STONE: 1.3 CU.M
- 4) M150 BLOCKS: 48
- 5) Y8 REBAR: 2.00M
- 6) REF 395 MESH: 2.00 x 1.65M
- 7) GALV STEEL WIRE: 20M x 2.0MM

## MIXES

- |                       |                        |
|-----------------------|------------------------|
| 15 MPA MIX:           | 30 MPA MIX:            |
| 2 BAGS OF CEMENT +    | 2 BAGS OF CEMENT +     |
| 3 WHEELBARROWS SAND + | 2 WHEELBARROWS SAND +  |
| 4 WHEELBARROWS STONE  | 2.5 WHEELBARROWS STONE |

# NOTES

## REVISIONS

No.	Date	Description	By	Checked
1	2024	Initial Design		
2				
3				

KZN DEPARTMENT  
OF AGRICULTURE &  
RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA |  
PRIVATE BAG 19009  
PIETERMARITZBURG, 3200  
PHONE: 033-334-28700

DRAWING FOR: H20000

PG. 001/002 DATE: \_\_\_\_\_

CURRY

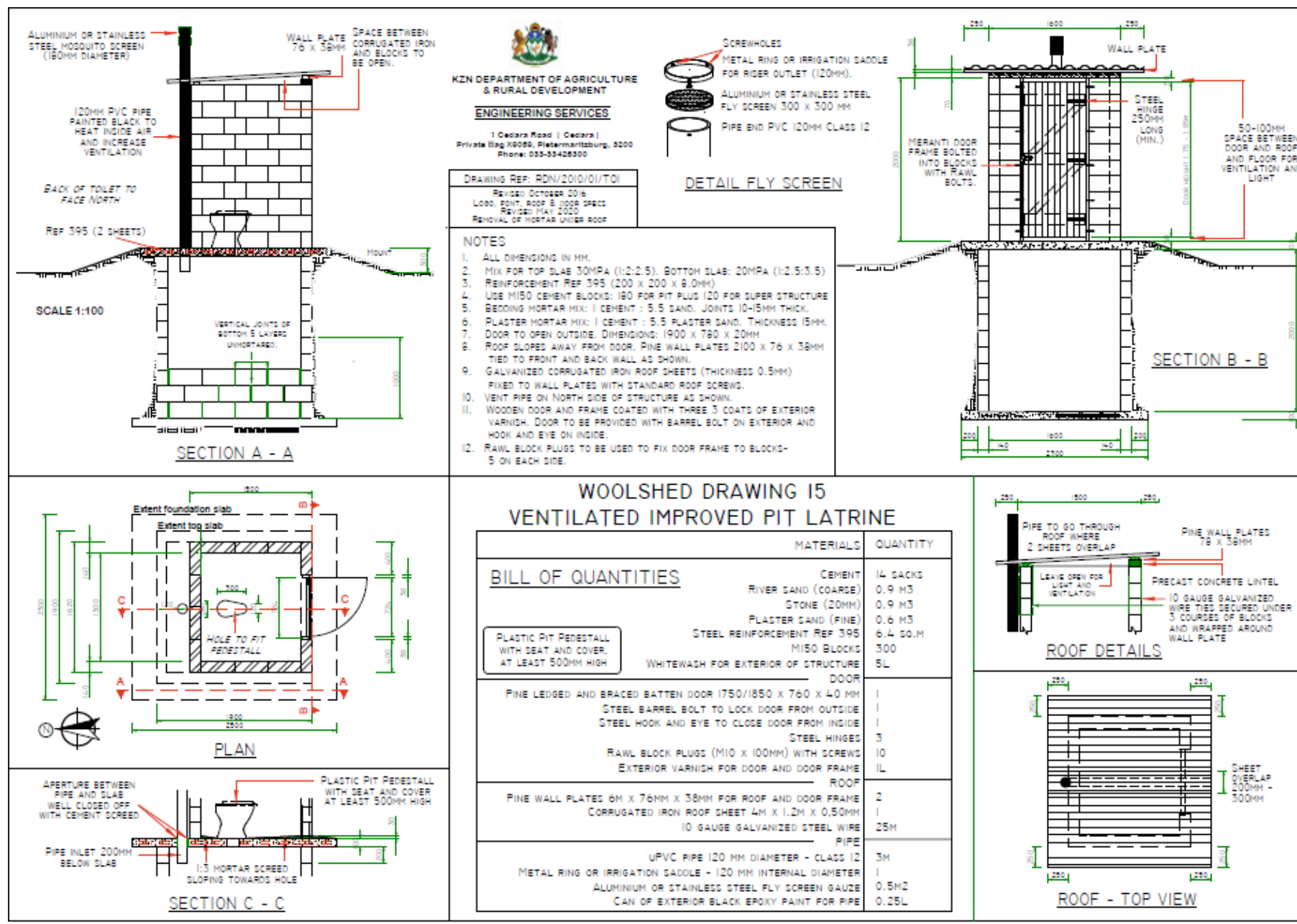
## DRAWING 14

TANK  
STAND  
FOR  
2500 &  
5000L  
TANKS

USE PRELIMINARY MIXES

DRAWN	FILED	DATE	DATE

DRAWN	FILED	DATE	DATE





## **PART F**

### **BID DISQUALIFYING FACTORS**

All bids received shall be evaluated on the following:

1. Only bids that meet both of the following **Prequalification Criteria** shall be considered:
  - (i) BBBEE Level 1 (as per the provisions of section 4(1) (a) of the PPPFA Regulations, 2017);
  - (ii) EME (as per the provisions of section 4(1) (b) of the PPPFA Regulations, 2017); and
  - (iii) Minimum CIDB 2 CE/GB.
3. Bids must meet the **Special Terms and Conditions** in all aspects as stipulated in the bid document.
3. **Correctness of information as per SBD 3:**
  - 3.1 All information required in the bid document must be accurate and duly completed including all the appropriate signatures.
  - 3.2 Use of correction fluid is prohibited.
  - 3.3 Any alterations must be initialled.
  - 3.2.1 Under no circumstances may bid forms be retyped or redrafted.
4. **Compulsory administrative compliance requirements that must be submitted with the bid:**
  - 4.1 Central Suppliers Database registration number;
  - 4.2 A certified copy of a valid BBBEE certificate or valid sworn affidavit;
  - 4.3 Documentary proof of bidder being an EME
  - 4.4 Minimum CIDB 2 CE/GB grading
  - 4.4 A resolution authorising a person to sign for Companies and Close Corporations - SBD 11.

**NB. The Department reserves the right to verify all information submitted.**

**Non-compliance with the above shall result in elimination from further processes.**

**Non-submission of any of the above documents shall result in disqualification.**

**5. To enable scoring on functionality, the following must be submitted:**

- 5.1 Proof of construction related experience;
- 5.2 Documentary proof of credit facility with manufacturer and/or Registered Financial Institution or evidence of access to any legal funding instrument;
- 5.3 Documentary proof of access to a bulk transportation facility (Letter of commitment from fleet company or Confirmation from registered manufacturer or distribution agent that delivery shall also be undertaken or any proof of access to transportation i.e. Log Books/ Letter of agreement supported by Log book);
- 5.4 Proof of physical address;

**NB. Where copies of original documentation are submitted, those copies must be certified and must not be copies of certified copies.  
Original certification should not be older than three (3) months. Failure to comply with this requirement shall invalidate the bid submitted.**

## 6. FUNCTIONALITY EVALUATION

6.1 The bid documents shall be evaluated individually on score sheets, by a representative evaluation panel, according to the below mentioned evaluation criteria.

6.2 All service providers who score less than minimum functionality score of (70) shall not be considered for the work.

The evaluation criteria are as in Table 2 below.

<b>TABLE 2: BID EVALUATION CRITERIA</b>				
	<b>FUNCTIONALITY EVALUATION CRITERIA</b>	<b>Max Points</b>	<b>Evidence</b>	<b>Bidders Score</b>
1.	<b><i>Bidder's experience in the construction of Buildings for Agricultural, domestic, industrial, institutional or commercial occupancies</i></b> 1 – 2 projects = 15 points 3 – 5 projects = 25 points > 5 projects = 30 points	<b>30</b>	Completion Certificate (Works or other) In support of <b>Annexure C3</b>	
2.	<b><i>Financial Capacity</i></b> <i>Total Credit Facility (with financial institution and/or manufacturer of irrigation material)</i> R 100 000 - R250 000 = 15 points R 250 000.00 - R500 000.00 = 25 points >R500 000.00 = 30 points	<b>30</b>	Evidence of credit facility with manufacturer/supplier <b>and/or</b> Registered Financial Institution <b>Or</b> Evidence of access to any legal funding instrument	
3.	<b><i>Access to a transportation facility/ Light Delivery Vehicle (LDV) / Truck</i></b>	<b>20</b>	<u>List under Annexure C1</u> Letter of commitment from fleet company <b>Or</b> Confirmation from producer that delivery shall also be undertaken <b>Or</b> Documentary proof of transport or transportation facility (Log Books/ Letter of agreement supported by Log book)	
4.	<b><i>Proof of Physical address</i></b> Office of Bidder outside borders of KZN = 5 pts Office of Bidder within borders of KZN = 20 pts	<b>20</b>	Lease agreement; Municipal Utility Bill; or Copy of Bank Statement (first page only) with address	
	<b>TOTAL</b>	<b>100</b>		
	<b>Minimum Functionality Threshold</b>	<b>70</b>		