



**BID NUMBER: LDPWRI-B/20288**

**APPOINTMENT OF A CONTRACTOR FOR DEMOLITION OF 12 CLASSROOMS, OFFICES AND PIT 4 PIT TOILETS, REFURBISHMENT OF 10 CLASSROOMS, GUARD HOUSE AND 27 SEATER ENVIROLOO TOILETS, CONSTRUCTION OF 20 CLASSROOMS, MEDIUM ADMINISTRATION BLOCK, NEW 20 SEATER ENVIROLOO TOILETS, STEEL PALISADE FENCE AND EXTERNAL WORKS AT CHITA KEKANA SECONDARY SCHOOL IN MOLETLANE VILLAGE, CAPRICON DISTRICT.**

**for**

**LIMPOPO DEPARTMENT OF EDUCATIONECON (LDOE),**

**LIMPOPO PROVINCE**

**FRAMEWORK CATEGORY A (7GB AND ABOVE)**

**Issued by:**

Limpopo Department of Public Works, Roads and Infrastructure  
Works Towers Building  
43 Church Street  
Polokwane  
0700

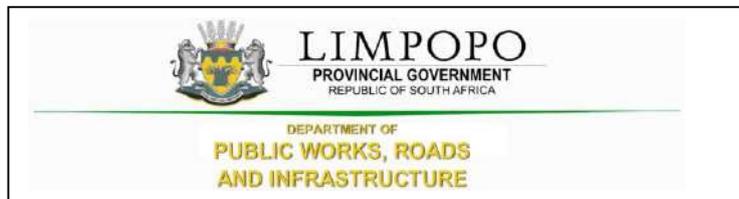
**Contact Person: General Queries**

Name : Mr NJ Motsopye,  
Tel No. : 015 284 7126  
Email : [motsopyen@dpw.limpopo.gov.za](mailto:motsopyen@dpw.limpopo.gov.za)

**Technical: Technical Queries**

Name : Mr K Modjadji  
Tel No. : 083 673 5436  
Email : [ModjadjiM@dpw.limpopo.gov.za](mailto:ModjadjiM@dpw.limpopo.gov.za)

**Name of the Bidder : .....**



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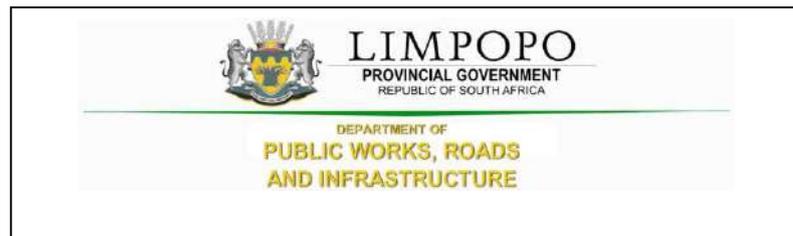
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## **PART T1: TENDERING PROCEDURE**

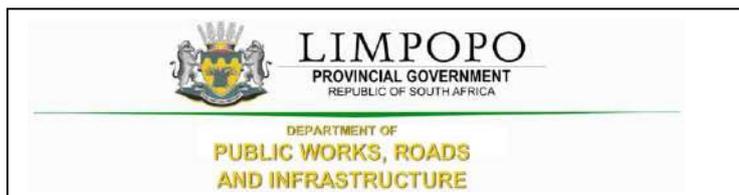
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## T1.1 Tender Notice and Invitation to Tender

The Limpopo Department of Public Works, Roads and Infrastructure invites tenderers from contractors appointed on the framework agreement on category A for **APPOINTMENT OF A CONTRACTOR FOR DEMOLITION OF 12 CLASSROOMS, OFFICES AND PIT 4 PIT TOILETS, REFURBISHMENT OF 10 CLASSROOMS, GUARD HOUSE AND 27 SEATER ENVIROLOO TOILETS, CONSTRUCTION OF 20 CLASSROOMS, MEDIUM ADMINISTRATION BLOCK, NEW 20 SEATER ENVIROLOO TOILETS, STEEL PALISADE FENCE AND EXTERNAL WORKS AT CHITA KEKANA SECONDARY SCHOOL IN MOLETLANE VILLAGE, CAPRICON DISTRICT** for a period of 24 months. It is estimated that tenderers must have a CIDB contractor grading designation of **7 GB** or higher.

The conditions of the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts **Gazette Notice No. 36190 of 25 February 2013** will be applicable on this project

<b>Project Name</b>	APPOINTMENT OF A CONTRACTOR FOR DEMOLITION OF 12 CLASSROOMS, OFFICES AND PIT 4 PIT TOILETS, REFURBISHMENT OF 10 CLASSROOMS, GUARD HOUSE AND 27 SEATER ENVIROLOO TOILETS, CONSTRUCTION OF 20 CLASSROOMS, MEDIUM ADMINISTRATION BLOCK, NEW 20 SEATER ENVIROLOO TOILETS, STEEL PALISADE FENCE AND EXTERNAL WORKS AT CHITA KEKANA SECONDARY SCHOOL IN MOLETLANE VILLAGE, CAPRICON DISTRICT.	
<b>Tender Number</b>	LDPWRI- B/20288	
<b>Tender documents availability</b>	Limpopo Department of Public Works, Roads and Infrastructure website	
<b>Address for submission of tenders</b>	DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.	
<b>Closing date of the tender</b>	<b>As per Tender invite</b>	
<b>Closing time of the tender</b>	<b>As per Tender invite</b>	
<b>Compulsory briefing meeting</b> ( <i>Tenderers must sign the attendance register in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance register</i> )	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	Meeting venue	<b>As per Tender invite</b>
	Date	<b>As per Tender invite</b>
	Time:	<b>As per Tender invite</b>
<b>Evaluation criteria</b>	<ol style="list-style-type: none"> <li>1. Compliance with mandatory or compulsory requirements</li> <li>2. Risk assessment on current projects</li> <li>3. Price</li> <li>4. Preference</li> </ol>	
<b>Mandatory or Compulsory Requirements</b> ( <i>failure to submit or comply with these requirements will lead to automatic disqualification</i> )	Only tenderers who are appointed on category A registered with the Construction Industry Development Board (CIDB) with designation of 7 GB or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations are eligible to have their tenders evaluated	
	Priced Bills of Quantities	
	SBD 1.	
	Declaration on the status of Administration compliance.	
	Completed and signed Form of Offer	



## T1.2 Tender Data

Clause number	Tender Data
	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annex C of Board Notice 423 of 2019 in Government Gazette No. 42622 of 08 August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (See <a href="http://www.cidb.org.za">www.cidb.org.za</a>) which are reproduced without amendment or alteration for the convenience of tenderers as an Annexure to this Tender Data.</p> <p>The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.</p> <p>The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice <b>No. 36190 of 25 February 2013</b>. In this case, contractor shall provide a <b>minimum Contract Participation Goal (CPG) of 5%</b> of the total project value and develop targeted enterprises stated under C3 of this document.</p> <p>The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender. Add the following to clauses in Standard Conditions of Tender:</p>
C.1.1	The Employer is the Department of Public Works, Roads and Infrastructure

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C.1.2	<p><b>The Tender</b>  <b>Part T1: Tendering procedures</b>  T1.1 Tender notice and invitation to tender  T1.2 Tender data</p> <p><b>Part T2: Returnable documents</b>  T2.1 List of returnable documents  T2.2 Returnable schedules</p> <p><b>The Contract Part C1: Agreements and contract data</b>  C1.1 Form of offer and acceptance  C1.2 Contract data  C1.3 Joint Venture Agreement (If Applicable)</p> <p><b>The Contract Part C2: Pricing data</b>  C2.1 Pricing instructions  C2.2 Bills of Quantities</p> <p><b>Part 3: Scope of work</b>  C3.1 Special Notes to Bidders  C3.2 OHS Specifications</p> <p><b>Part 4: Site information</b>  C4 Drawings</p>
C.1.4	<p>The employer's representative is:</p> <p>Name : Mr K Modjadji  Tel No. : 083 673 5436  Email : <a href="mailto:ModjadjiM@dpw.limpopo.gov.za">ModjadjiM@dpw.limpopo.gov.za</a></p> <p>However, all communications related to this bid should be directed to the persons indicated under Enquires on this tender document.</p> <p>Attention is also drawn to the fact that verbal information, given by the Employer's agent during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the Employer. Only information issued formally by the Employer in writing to Tenderers will be regarded as amending the Tender Documents.</p>
C.1.5	<p>The employer reserve to cancel the tender prior to the award of the tender.</p>
C1.6.2	<p>A competitive negotiation procedure will not be followed.</p>
C1.6.3	<p>A two-stage system will not be followed.</p>
C.2.1	<p><b>Eligibility in respect of CIDB grading</b></p> <p>Only tenderers who are appointed on framework agreement category A and registered with the Construction Industry Development Board (CIDB) with designation of 7 GB or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, are eligible to have their tenders evaluated.</p>
C2.2	<p><b>Cost of tendering</b></p> <p>The tenderer accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.</p>

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C.2.7	<p><b>Compulsory site briefing</b></p> <p>A compulsory briefing meeting will be held <b>as per Tender invite</b></p> <p>Tenderers must sign the attendance list in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance list.</p>
C.2.11	<p><b>Alterations to the documents</b></p> <p>Bidders are required to not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations</p>
C.2.12	<p><b>Alternative tender offer</b></p> <p>No alternative tender offer is permitted in this tender.</p>
C.2.13.2	<p><b>Replace sub-clause C.2.13.2 with the following;</b> Return all returnable documents to the employer after completing them in their entirety by writing in <b>non-erasable black ink (Black pen)</b></p>
C.2.13.3	<p>Parts of each tender offer communicated on paper shall be submitted as an original</p>
C.2.13.4	<p>The tender shall be signed by a person duly authorized to do so.</p>
C.2.13.5	<p>The employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are:</p> <p><b>Location of tender box: DEPARTMENT OF PUBLIC WORKS, ROADS &amp; INFRASTRUCTURE.</b> <b>Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699</b> <b>Identification details:</b> Sealed Tender with Tender reference number, Title of Tender and the closing date and time of the tender.</p>
C.2.15.1	<p>The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender. Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.</p>
C.2.16.1	<p>The tender offer validity period is <b>12 weeks or 90 days.</b></p>
C.2.16.2	<p>The tender accepts that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16.1 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).</p>
C.3.1	<p>The tenderer is required to indicate how they claim points for each preference point system and attached relevant supporting documents. The specific goals for claiming of preference points include the following:</p> <ul style="list-style-type: none"> <li>- Persons who had no franchise in national elections prior to 1983 and 1993</li> <li>- Women</li> <li>- Disabled persons</li> <li>- Promotion of SMMEs</li> <li>- Enterprises located in Limpopo Province</li> <li>- Promotion of youth</li> <li>- South African owned enterprises</li> </ul>

	<p><b>CIDB Grading Certificate</b></p> <p>Tenders are required to provide proof of registration with the CIDB register of contractors indicating the category of registration, grading as well as the CRS number of the tenderer.</p> <p><b>Letter of Good Standing</b></p> <p>Tenderer's are required to submit, bound with the tender submission, a letter of good standing from the compensation commissioner indicating that the bidder is in good standing.</p>
C3.2	<p>Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.</p>
C.3.4.1	<p>Tenders will <b>not</b> be opened immediately after the closing time for tenders.</p>
C.3.11	<p>The tenderers will be evaluated in four stages</p> <ul style="list-style-type: none"> <li>(i) Stage 1: Compliance with mandatory requirements as stated in Part T1.1</li> <li>(ii) Stage 2: Risk assessment on current projects</li> <li>(iii) Stage 3: Price</li> <li>(iv) Stage 4: Preference</li> </ul> <p>The technical capacity (functionality) of the contractors will not be evaluated any further during evaluation of the RFQ. However, the contractors will be required to declare the status of their key staff and any administrative compliance. In cases where there are changes in the key staff, the contractor should provide CVs and qualifications of the new staff to LDPWR&amp;I. The new staff should have similar skills, qualifications and experience as the staff submitted during tender. Similarly, the contractors will be expected to provide an update on any changes in their administrative compliances – and should submit the required SBD document/forms in such cases.</p> <p>The award will only be issued to contractors with valid Tax Clearance certificates, active CIDB grading and the contractor who meets all the legislative requirement – this shall be verified by SCM in line with the departmental SCM Policy.</p> <p>The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade.<sup>1</sup></p> <ul style="list-style-type: none"> <li>a) Stage 1: Administrative Compliance: The Compliance or compulsory documents and returnables are detailed in Section T.2.1 of this tender document. Failure to submit, complete or comply with these requirements will lead to automatic disqualification.</li> <li>b) Stage 2: Risk assessment on current projects</li> </ul> <p>The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade.</p>

**Stage 3 and 4:**

The procedure for final evaluation of responsive tenders is Method 2 (Financial offer and preference). The total number of tender evaluation points ( $T_{EV}$ ) shall be determined in accordance with the following formula.

$$T_{EV} = N_{FO} + N_P$$

- a)  $N_{FO}$  is the number of tender evaluation points awarded for the financial offer made. The score for financial offer is calculated using the following formula:

$$P = A * \left( 1 - \frac{(P_o - P_m)}{P_m} \right)$$

Where:

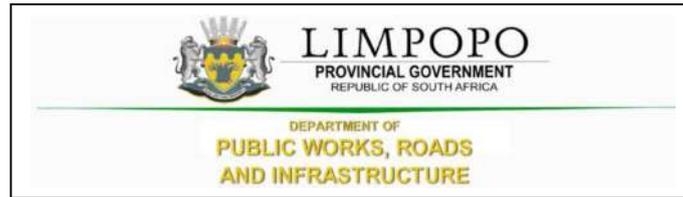
$A$  is 80 since the estimated financial value of works inclusive of VAT is equals or is less than R 50,000,000.00.

$P$  is the points awarded to the bid under consideration

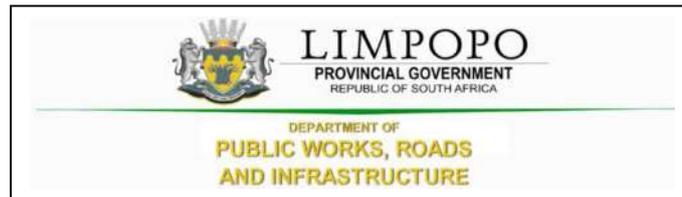
$P_m$  is the lowest Comparative bid price

$P_o$  is the comparative price under consideration

- b)  $N_P$  is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18



## **PART T2: RETURNABLE DOCUMENTS**



## **T2.1 : LIST OF RETURNABLE DOCUMENTS**

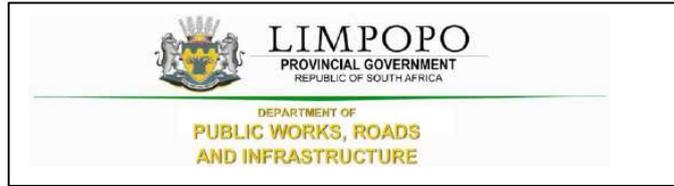
The following documents will form part of the documents submitted to the Contractors as part of the Request for Proposals:

- 2.1 Fully completed Form of Offer
- 2.2 Bills of Quantities
- 2.3 Record of Addenda to tender documents (if applicable)
- 2.4 Proposed amendments and qualifications (if applicable)
- 2.5 Proof of specific goal for award of the preference points as determined on the Request for Proposal
- 2.6 SBD 1.
- 2.7 SBD 6.1
- 2.8 Declaration on the status of Administration compliance.
- 2.9 CIDB grading certificate
- 2.10 CSD Report
- 2.11 Tax clearance certificate
- 2.12 Declaration of current projects

Failure by the service provider to submit or complete item 2.1, 2.2, 2.3, 2.4, 2.6, 2.8, and 2.12 will render their proposal not responsive and will not be considered.

*Failure by the service provider to fully complete SBD 6.1 item 4.3 to 4.6 (Declaration with regard to company/firm) will render their proposal not responsive and will not be considered.*

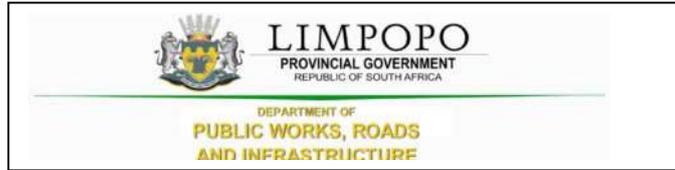
The bidder should also not appear on the National Treasury's list of black listed entities.



## T 2.2: RETURNABLE SCHEDULE

	Document Name	Returnable document
1.	Fully completed Form of Offer	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.	Priced Bills of Quantities	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.	Record of Addenda to tender documents (if applicable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Proposed amendments and qualifications (if applicable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.	Proof of specific goals for award of the preference points	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.	SBD 1. Invitation to Tender	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.	SBD 6.1: Reference Points claim form in terms of the Preferential Procurement Regulations 2022 or amended	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.	Declaration on the status of Administration compliance.	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.	Proof of CIDB class grading: 7GB or higher.	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.	CSD Summary report	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.	Original tax clearance certificate or tax pin	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.	Declaration of current projects	<input type="checkbox"/> Yes <input type="checkbox"/> No

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## Declaration on the status of administrative compliance

Please indicate, by circling either **Yes** or **No**, whether the administrative information submitted with the original framework tender documents have changed or not. If yes, kindly provide the particulars below with any supporting documents.

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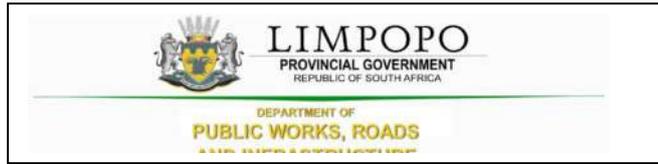
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Signed ..... Date \_\_\_\_\_

Name ..... Position \_\_\_\_\_

*Enterprise* .....

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## Record of Addenda to tender documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed ..... Date .....

Name ..... Position .....

Tenderer .....



### Proposed amendments and qualifications

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

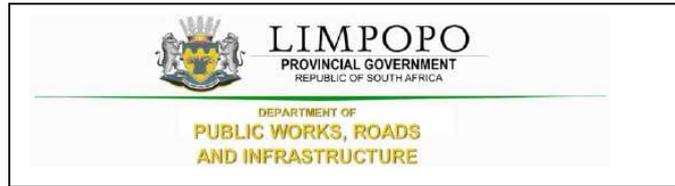
The Tenderer's attention is drawn to clause 5.8 of SANS 10845-3 regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

*Tenderer* \_\_\_\_\_



**SBD 1**

**PART A: INVITATION TO BID**

**YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE LIMPOPO DEPARTMENT OF PUBLIC WORKS, ROADS AND INFRASTRUCTURE**

<b>BID NUMBER:</b>	<b>LDPWRI-B/20288</b>	<b>CLOSING DATE</b>	<b>As per Tender Advert</b>	<b>CLOSING TIME:</b>	<b>As per Tender Advert</b>
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**DESCRIPTION** REFURBISHMENT AND ADDITIONS AT CHITA KEKANA SECONDARY SCHOOL IN MOLETLANE VILLAGE, CAPRICON DISTRICT.

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

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE.

Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.

**BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO**

CONTACT PERSON Mr. NJ Motsopye

TELEPHONE NUMBER 0152847126 E-MAIL ADDRESS motsopyen@dpw.limpopo.gov.za

CONTACT PERSON (TECHNICAL) Mr. K Modjadji

TELEPHONE NUMBER 083 673 5436 E-MAIL ADDRESS ModjadjiM@dpw.limpopo.gov.za

**SUPPLIER INFORMATION**

NAME OF BIDDER

POSTAL ADDRESS

STREET ADDRESS

TELEPHONE NUMBER CODE NUMBER

CELLPHONE NUMBER

E-MAIL ADDRESS

VAT REGISTRATION NUMBER

SUPPLIER COMPLIANCE STATUS TAX COMPLIANCE SYSTEM PIN: OR CENTRAL SUPPLIER DATABASE No: MAAA

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS/SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
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**QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS**

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?  YES  NO

DOES THE ENTITY HAVE A BRANCH IN THE RSA?  YES  NO

DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?  YES  NO

DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?  YES  NO

IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?  YES  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 23 BELOW.**

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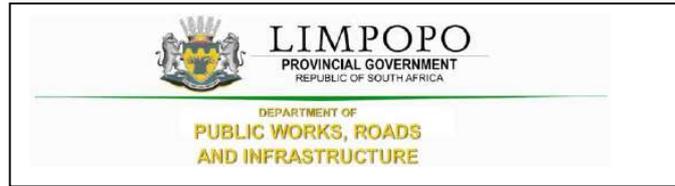
<b>1. BID SUBMISSION:</b>
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</b>
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, 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.</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 WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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

SIGNATURE OF BIDDER: .....

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

DATE: .....



## SBD 6.1

### PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

**NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022**

#### 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

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

#### 1.2 To be completed by the organ of state

*(delete whichever is not applicable for this tender).*

- a) ~~The applicable preference point system for this tender is the 90/10 preference point system.~~
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

**1.4 To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

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

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

**2. DEFINITIONS**

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

**3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES**

**3.1. POINTS AWARDED FOR PRICE**

**3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS**

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

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

Where

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

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

**3.2.1. POINTS AWARDED FOR PRICE**

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

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

Where

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

**4. POINTS AWARDED FOR SPECIFIC GOALS**

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

4.3. (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

**Table 1: Specific goals for the tender and points claimed are indicated per the table below.**

***(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)***

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Persons who had no franchise in national elections prior to 1983 and 1993 ( <b>Attach certified copy of South African ID as proof</b> )	2	6		
Women ( <b>Attach Director's certified copy of South African ID as proof + company registration documents</b> )	1	3		
Disabled persons ( <b>Attach letter from a Health Professional as proof</b> )	1	2		
Promotion of SMMEs ( <b>Attach latest financial statement as proof</b> )	1	2		
Enterprises located in Limpopo Province ( <b>Attach proof of address / Lease agreement as proof</b> )	2	4		
Promotion of youth ( <b>Attach Director's certified copy of South African ID as proof</b> )	1	1		
South African owned enterprises ( <b>Attach Director's certified copy of South African ID as proof + company registration documents</b> )	2	2		

**DECLARATION WITH REGARD TO COMPANY/FIRM**

4.4. Name of company/firm.....

4.5. Company registration number: .....

4.6. TYPE OF COMPANY/ FIRM

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

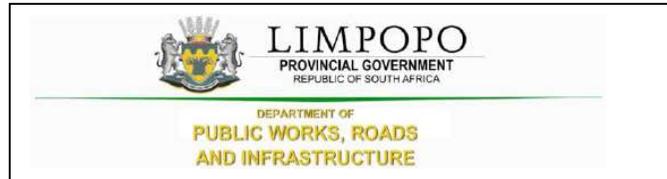
[TICK APPLICABLE BOX]

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
  - (a) disqualify the person from the tendering process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person’s conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution, if deemed necessary.

.....	
<b>SIGNATURE(S) OF TENDERER(S)</b>	
<b>SURNAME AND NAME:</b>	.....
<b>DATE:</b>	.....
<b>ADDRESS:</b>	.....
	.....
	.....
	.....



**DECLARATION OF CURRENT PROJECTS**

Current value refers to current value of projects for both General Building (GB) and Civil Engineering (CE).

Please list the current projects which your company is busy executing in the table below.

*If no projects at the moment the tender must indicate/write on this table.*

*Misrepresentation of facts will render your bid non-responsive.*

**Table 1 List of current projects executed by the bidder**

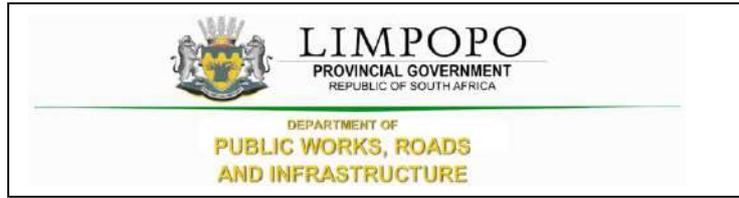
1. Do you have the current projects being executed                      Yes/No?
2. Please note that it is compulsory to answer the question above and if the answer is yes, complete the table below. Failure by the service provider/tenderer to answer the question above or complete the table below will render their proposal not responsive and will not be considered.

Project Description	Project Value	Start date	Planned end date	Client Name	Contact Person number

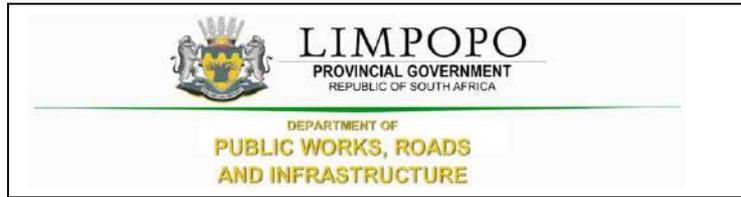

Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

*Enterprise* \_\_\_\_\_



# THE CONTRACT



## **PART C1: AGREEMENT AND CONTRACT DATA**



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

**Offer**

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

**REFURBISHMENT AND ADDITIONS AT CHITA KEKANA SECONDARY SCHOOL IN MOLETLANE VILLAGE, CAPRICORN DISTRICT.**

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the tender schedules, and by submitting this offer has accepted the conditions of tender.

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

**THE OFFERED TOTAL OF THE PRICE INCLUSIVE OF VALUE ADDED TAX IS (CONTRACT PRICE)**

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

(in figures) R.....

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature(s) .....

Name(s) .....

Capacity .....

**For the tenderer:** .....

Name & signature of witness .....

Date

# Acceptance (To be completed by the employer – not the bidder)

By signing this part of this Form of Offer and Acceptance, the *Employer* identified below accepts the tenderer's Offer. In consideration thereof, the *Employer* shall pay the Consultant the amount due in accordance with the *conditions of contract* identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the *Employer* and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part C1            Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
- Part C2            Pricing Data
- Part C3            Scope of Work

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the *Employer* during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the *Employer's* agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the tenderer (now *Consultant*) within five working days of the date of such receipt notifies the *Employer* in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

## For the Employer

Signature .....

Name .....

Capacity .....

## Name and address of organization

## Signature and Name of Witness

Signature .....

Name .....

Capacity .....

## Schedule of Deviations

1 Subject .....

Details .....

.....

.....

.....

.....

2 Subject .....

Details .....

.....

.....

.....

.....

3 Subject .....

Details .....

.....

.....

.....

.....

4 Subject .....

Details .....

.....

.....

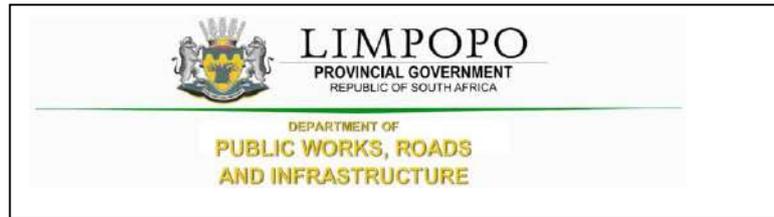
.....

.....

By the duly authorised representatives signing this agreement, the *Employer* and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the *Employer* during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

.....



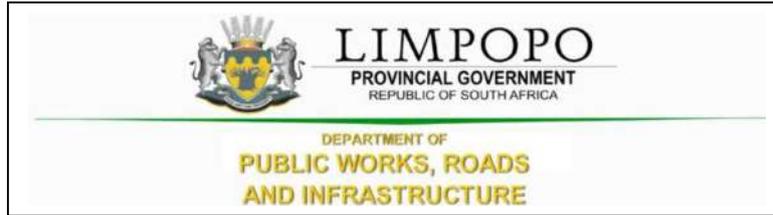
## C2.1 CONTRACT DATA

The Conditions of Contract are clauses 1 to 41 of the **JBCC Series 2000 Principal Building Agreement (Edition 4.1 of March 2005)** published by the Joint Building Contracts Committee.

Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011-3154140), Master Builders Association (011-205-9000; 057- 3526269) South African Association of Consulting Engineers (011-4632022) or South African Institute of Architects (051-4474909; 011-4860684; 053-8312003;)

The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities, and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the JBCC Principal Building Agreement.

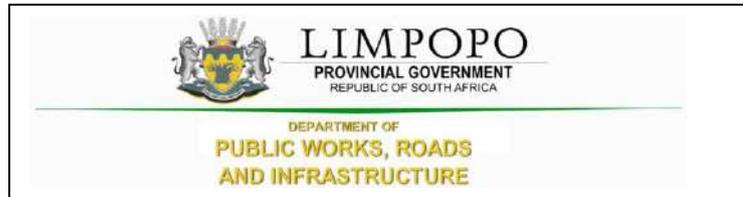
The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the **CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice No. 36190 of 25 February 2013.**”



## PART C2: PRICING DATA

### C2.1 Pricing instruction

- The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work in accordance with the provisions of the Model Bills of Quantities or Electrical Work, published by the South African Association of Quantity Surveyors, (July, 2005).
- The agreement is under the JBCC N/S Subcontractor Agreement for use with the JBCC PBA (Edition 4.1 code 2101 March 2005) form of contract with Preliminaries (Code 2103 May 2005) incorporating the State Provisions of cl 41.0.
- It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders.
- The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
- An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
- The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities.
- The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
- The bidder shall set aside a minimum of 5 % of the project value for sub-contractor/s and determine the amount to be paid for the Contract Participation Goal (CPG).



## **PART C2.2: BILLS OF QUANTITIES**

Item  
No

**SECTION NO.1**

**BILL NO.1**

**MEANING OF TERMS "TENDER / TENDERER"**

Any reference to the words "Tender" or Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

**PRELIMINARIES**

The JBCC Preliminaries Edition 4.1 Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".

**PRICING OF PRELIMINARIES**

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item.

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.

**SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT**

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Section No. 1  
PRELIMINARIES  
Bill No. 1

**DEFINITIONS**

1 **A1 DEFINITIONS AND INTERPRETATIONS**

Clause 1.0 Clause

1.1 Definition of "**Commencement Date**" is added:

**"COMMENCEMENT DATE"** means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect.

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

**"CONSTRUCTION PERIOD"** means the period commencing on the commencement date and ending on the date of practical completion.

Clause 1.1 Definition of "**Interest**" is amended by replacing it with the following:

**INTEREST** means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular.

- (a) In respect of interest owed by the employer, the interest rate as determined by the Minister of Justice and Constitutional Development, from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and
- (b) in respect of interest owed to the **employer**, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.

Clause 1.6.4 is amended by replacing it with the following:

**Carried to Collection**

R

No clause

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

**OBJECTIVE AND PREPARATION**

2 **A2 OFFER, ACCEPTANCE AND PERFORMANCE**

Clause 2.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

3 **A3 DOCUMENTS**

Clause 3.0

Clause 3.7 is amended by the addition of the following:

The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

4 **A4 DESIGN RESPONSIBILITY**

Clause 4.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

5 **A5 EMPLOYEES AGENTS**

Clause 5.0

Clause 5.1.2 is amended to include clauses 32.6.3,34.3 and 34.4

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

**Carried to Collection**

item

item

item

item

item

**R**

6	<p><b>A6 SITE REPRESENTATIVE</b></p> <p>Clause 6.0                  Fixed: _____ Value related: _____                  Time related: _____</p>			item
7	<p><b>A7 COMPLIANCE WITH REGULATION</b></p> <p>Clause 7.0</p> <p>Note: The provisions herein include inter alia, compliance with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor</p> <p>See also clause C10 of Section C - Specific Preliminaries</p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>			item
8	<p><b>A8 WORKS RISK</b></p> <p>Clause 8.0</p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>			item
9	<p><b>A9 INDEMNITIES</b></p> <p>Clause 9.0</p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>			item
10	<p><b>A10 WORKS INSURANCES</b></p> <p>Fixed: _____ Value related: _____                  Time related: _____</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p>			item
	<b>Carried to Collection</b>			<b>R</b>

**10.5 Damage to the Works**

- (a) Without in any way limiting the **contractors** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair of **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

**Carried to Collection**

<b>R</b>	

**10.6 Injury to Persons or loss of or damage to Properties**

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable
- (b) The **contractor** shall be liable for any hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable
- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default therefore the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**
- (e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed

**Carried to Collection**

**R**

(f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

**10.7 High risk insurance**

In the event of the project being executed in a geological area classified as a High Risk Area, that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

**10.7.1 Damage to the works**

The **contractor** shall, from the commencement **date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works at the contractor's own costs

**10.7.2 Injury to persons or loss of or damage to property**

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

**Carried to Collection**

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**10.7.3** It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractors** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

**10.7.4** The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractors** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amount still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

11 **A11 LIABILITY INSURANCES**

Clause 11.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

12 **A12 EFFECTING INSURANCES**

Clause 12.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

13 A13.0 *No clause*

14 **A14 SECURITY**

Clause 14.0

Clause 14.1 - 14.8 are amended by replacing them with the following:

14.1. In respect of contracts with a **contract sum** up to R1 million, the **security** to be submitted by the **contractor** to the **employer** will be as a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

**Carried to Collection**

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14.1.1. The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.1.2. The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employers** entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the **contractor**

14.2. In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty-one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have selected.

14.3. Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1. The **contractor** shall furnish the **employer** with a cash deposit equal in value of ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.3.2. Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**

14.3.3. Within twenty-one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**

14.3.4. On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

**Carried to Collection**

R

14.3.5. The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employers** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

14.3.6. The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party

14.4. Where **security** as a variable construction guarantee of ten percent (10%) of the **contract sum** (excluding VAT) has been selected.

14.4.1. The **contractor** shall furnish the **employer** with an acceptable variable construction guarantee equal in value to ten percent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.4.2. The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form include in the invitation to tender

14.4.3. The **employer** shall return the variable construction guarantee to the **contractor** within fourteen (14) **calendar days** of it expiring

14.4.4. Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable construction guarantee

14.5. Where **security** as a fixed construction guarantee of five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

14.5.1. The **contractor** shall furnish a fixed construction guarantee to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)

14.5.2. The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of **practical completion**

14.5.3. The **employer** shall return the fixed construction guarantee to the **contractor** within fourteen (14) **calendar days** of it expiring

14.5.4. The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

**Carried to Collection**

**R**

14.5.5. Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both

14.6. Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1. The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.6.2. Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3. The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4. Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7. Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1. The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)

14.7.2. The **employer** shall be entitled to recover expenses and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employers** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

14.8. Payments made by the guarantor to the **employer** in terms of the fixed or variable construction guarantee shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**

**Carried to Collection**

R

14.9. Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractors** selected form the **security** to that of a ten per cent (10%) payment reduction of the value certificate in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**EXECUTION**

15 **A15 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0  
 Clause 15.1.1 is amended by replacing it with:

No Clause  
 Clause 15.1 is amended by the addition of the following clause:  
 15.1.4. An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), with twenty-one (21) **calendar days** of **commencement date**

Clause 15.2.1 is amended by replacing it with the following clause:

Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.2 and 15.1.4

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

16 **A16 ACCESS TO THE WORKS**

Clause 16.0  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

17 **A17 CONTRACT INSTRUCTIONS**

Clause 17.0  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**Carried to Collection**

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18 **A18 SETTING OUT OF THE WORKS**

Clause 18.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

19 **A19 ASSIGNMENT**

Clause 19.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

20 **A20 NOMINATED SUB-CONTRACTORS**

Clause 20.0

Clause 20.1.3 is amended by replacing it with the following:

No Clause

Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

21 **A21 SELECTED SUBCONTRACTORS**

Clause 21.0

Clause 21 is amended by replacing with:

No Clause

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

**Carried to Collection**

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<p>22 <b>A22 EMPLOYERS DIRECT CONTRACTORS</b></p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>	<p>item</p>		
<p>23 <b>A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</b></p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>			
<p>24 <b>A24 PRACTICAL COMPLETION</b></p> <p>Clause 24.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>			
<p>25 <b>A25 WORK'S COMPLETION</b></p> <p>Clause 25.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>	<p>item</p>		
<p>26 <b>A26 FINAL COMPLETION</b></p> <p>Clause 26.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>	<p>item</p>		
<p>27 <b>A27 LATENT DEFECTS LIABILITY PERIOD</b></p> <p>Clause 27.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>	<p>item</p>		
<p>28 <b>A27 SECTIONAL COMPLETION</b></p> <p>Clause 28.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>	<p>item</p>		
<p><b>Carried to Collection</b></p>		<p><b>R</b></p>	

29 **A29 REVISION OF DATE FOR PRACTICAL COMPLETION**

Clause 29.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

item

30 **A30 PENALTY FOR NON-COMPLETION**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

item

**PAYMENT**

31 **A31 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

Clause 31.8 is amended by replacing it with the following two alternative clauses:

**Alternative A**

31.8(A).1 Where a **security** is selected in terms of 14.1, 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

**Carried to Collection**

**R**

**Alternative B**

31.8(B) Where **security** is a payment reduction in terms of 14.7 the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(b).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).1 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.12 is amended by deleting the following:

Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

32

**A32 ADJUSTMENT TO THE CONTRACT VALUE**

Clause 32.0

Clauses 32.5.1, 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

**Carried to Collection**

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item

**R**

33 **A33 RECOVERY OF EXPENSE AND LOSS**

Clause 33.0

Clause 33.2 is amended by adding the following clauses:

33.2.9 the **contractors** failure or neglect to commence with the **works** on the dates prescribed in the contract

33.2.10 the **contractors** failure or neglect to proceed with the **works** in terms of the contract

33.2.11 the **contractors** failure or neglect for any reason to complete the **works** in accordance with the contract

33.2.12 the **contractors** refusal or neglect to comply strictly with any of the conditions of contract or any **contract instructions** and/or orders in writing given in terms of the contract

33.2.13 the **contractors** estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

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34 **A34 FINAL ACCOUNT AND FINAL PAYMENT**

Clause 34.0

Clause 34.13 is amended by replacing seven (7) **calendar days** with twenty-one (21) **calendar days** and deleting the words subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

item

35 **A35 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

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**Carried to Collection**

**R**

**CANCELLATION**

**A36 CANCELLATION BY EMPLOYER - CONTRACTORS DEFAULT**

Clause 36.0

Clause 36.3 is amended by removing the reference to No clause and replacing the words **principal agent** with **employer**

Clause 36.0 is amended by the addition of the following clause:

36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

36 **A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

37 **A38 CANCELLATION BY CONTRACTOR - EMPLOYERS DEFAULT**

Clause 38.0

**Carried to Collection**

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**R**

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

**38 A39 CESSATION- CANCELLATION OF THE WORKS**

Clause 39.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

**39 A40 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing one (1) year with three (3) years

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing (10) with (15) and by the additions of the following

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

**Carried to Collection**

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**SUBSTITUTE PROVISIONS**

40 **A41 STATE CLAUSES**

Clause 41.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

**CONTRACT VARIABLES**

**THE SCHEDULE (DPW04EC)**

41 **A42 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the document C1.2 Contract Data DPW04(EC) for variables pertaining to this contract

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

**SECTION B: JBCC PRELIMINARIES**

**DEFINITIONS AND INTERPRETATION**

42 ***Definitions and interpretation***

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

**DOCUMENTS**

43 ***Checking of documents***

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

44 ***Provisional bills of quantities***

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_

Time related: \_\_\_\_\_

**Carried to Collection**

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45	<p><b>Availability of construction documentation</b></p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>					item	
46	<p><b>Interests of agents</b></p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>					item	
47	<p><b>Priced documents</b></p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>					item	
48	<p><b>Tender submission</b></p> <p>Clause 2.6 is amended by replacing JBCC Form of Tender with Form of Offer and Acceptance</p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>					item	
<b>THE SITE</b>							
49	<p><b>Defined works area</b></p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>					item	
50	<p><b>Geotechnical investigation</b></p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>					item	
51	<p><b>Inspection of the site</b></p> <p>Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission.</p> <p>Fixed: _____ Value related: _____                  Time related: _____</p>					item	
<b>Carried to Collection</b>							
						<b>R</b>	

52 **Existing premises occupied**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

53 **Previous work dimensional accuracy**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

54 **Previous work defects**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

55 **Services known**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

56 **Services unknown**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

57 **Protection of trees**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

58 **Articles of value**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

59 **Inspection of adjoining properties**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

**Carried to Collection**

**R**

**MANAGEMENT OF CONTRACT**

60 **Management of the works**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

61 **Programme for the works**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

62 **Progress meetings**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

63 **Technical meetings**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

64 **Labour and plant records**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

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**SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS**

65 **Samples of materials**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

66 **Workmanship samples**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

67 **Shop drawings**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

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**Carried to Collection**

**R**

**TEMPORARY WORKS AND PLANT**

69 **Deposits and fees**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

70 **Enclosure of the works**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

71 **Advertising**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

72 **Plant, equipment, sheds and offices**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

73 **Main notice board**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

74 **Subcontractors notice board**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**TEMPORARY SERVICES**

75 **Location**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

76 **Water**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

77 **Electricity**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**Carried to Collection**

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78 **Telecommunication facilities**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

79 **Ablution facilities**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**PRIME COSTS AMOUNTS**

80 **Responsibility for prime cost amounts**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**ATTENDANCE ON N/S SUBCONTRACTORS**

81 **General attendance**  
 The schedule rates providing for attendance on **nominated subcontractors** and other **contractors**, will be adjusted only if the scope of the work has changed  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

82 **Special attendance**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

83 **Commissioning fuel, water and electricity**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**Carried to Collection**

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**FINANCIAL ASPECTS**

84 **Statutory taxes, duties and levies**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

85 **Payment for preliminaries**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

86 **Adjustment of preliminaries**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

87 **Payment certificate cash flow**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

**GENERAL**

88 **Protection of the works**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

89 **Protection / isolation of existing / sectionally occupied works**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

90 **Security of the works**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

91 **Notice before covering work**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

**Carried to Collection**

**R**

92 **Disturbance**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

93 **Environmental disturbance**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

94 **Works cleaning and clearing**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

95 **Vermin**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

96 **Overhand work**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

97 **Instruction manuals and guarantees**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

98  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

99 **Tenant installations**  
 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

item

**Carried to Collection**

**R**

**SCHEDULE OF VARIABLES**

100 ***Pre-tender information***

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

This schedule contains all variables referred to in this document and is divided into pretender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.

Spaces requiring information must be filled in, shown as not applicable or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted.

**Carried to Collection**

item

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**12.1 PRE-TENDER INFORMATION**

**12.1.1 Provisional Bills of Quantities**

[2.2] The quantities are provisional NO

**12.1.2 Availability of construction documentation**

[2.3] *Construction documentation is complete* YES

**12.1.3 Interest of agent**

[2.4] Details:  
**Employer: Limpopo Department of of Roads & Infrastructure**

43 Church Street  
 Private Bag X9490  
 POLOKWANE, 0700  
 Tel: [015] 284 7000/1 Cell: 082 460 6271

**Architect and Principal Agent:**

Ruben Reddy Architects  
 4 Ismini Office Park,  
 POLOKWANE  
 Tel: [015] 065 0645 Fax: [011] 475 8364  
 Email : Geshim.Francis@rubenreddyarch.co.za

**Quantity Surveyor:**

Phahlana-Hunadi QS  
 2760 Zone B  
 LEBOWAKGOMO , 0737  
 Tel: [015] 633 6535 Fax: [015] 633 6477  
 Email : 'info@phqs.co.za

**Civil/Structural:**

Muteo Consulting  
 39 Grobler Street  
 POLOKWANE  
 Tel: [015] 291 4065 Fax: 015 291 4043  
 Email: vonganim@muteo.co.za

**Electrical/Mechanical Engineers:**

NSKECM  
 38 Burger Street  
 Polokwane 0700  
 Tel: 015 295 2104 Fax: 015 295 2104  
 Email: mark@nskecm.co.za

**Carried to Collection**

**R**

<p>12.1.4 <b>Defined works area</b> [3.1] Details:  Site as per land surveyor</p> <p>12.1.5 <b>Geotechnical investigation</b> [3.2] Details:  Refer to Principal Agent</p> <p>12.1.6 <b>Existing premises occupiers</b> [3.4] Specific requirements:  N/A</p> <p>12.1.7 <b>Previous work - dimensional accuracy</b> [3.5] Details:  N/A</p> <p>12.1.8 <b>Previous work - defects</b> [3.6] Details:  N/A</p> <p>12.1.9 <b>Services - known</b> [3.7] Details:  N/A</p> <p>12.1.10 <b>Protection of trees</b> [3.9] Specific requirements:</p> <p>12.1.11 <b>Inspection of adjoining properties</b> [3.11] Specific requirements:</p> <p>12.1.12 <b>Enclosure of the works</b> 6.2] Specific requirements:</p> <p>12.1.13 <b>Offices</b> [6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitable insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.</p> <p style="text-align: center;"><b>Carried to Collection</b></p>	<p style="text-align: center;"><b>R</b></p>
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12.1.14 [6.5]	<p>Main notice board Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick around outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms of SA. All working shall be inscribed in dark green painted sans serif lettering.</p>		
12.1.15 [6.6]	<p><b>Subcontractor's notice board</b> Specific requirements:</p>	YES/NO	
12.1.16 [7.2]	<p><b>Water</b> Option A (by contractor)</p>	YES	
	Option B (by employer - free of charge)	NO	
	Option C (by employer - metered)	NO	
12.1.17 [7.3]	<p><b>Electricity</b> Option A (by contractor)</p>	YES	
	Option B (by employer - free of charge)	NO	
	Option C (by employer - metered)	NO	
12.1.18 [7.4]	<p><b>Telecommunications</b> Telephone</p>	YES	
	Facsimile	YES	
	E-mail	YES	
12.1.19 [7.5]	<p><b>Ablution facilities</b> Option A (by contractor)</p>	YES	
	Option B (by employer)	NO	
12.1.20 [11.2]	<p><b>Protection of existing/sectionally occupied works</b> Protection is required</p>	NO	
<b>Carried to Collection</b>			<b>R</b>

<p>12.1.21 <b>Special attendance</b> [9.2] <b>Subcontractor</b> (1) details:</p> <p><b>Subcontractor</b> (2) details:</p> <p><b>Subcontractor</b> (3) details:</p> <p><b>Subcontractor</b> (4) details:</p> <p>12.1.22 <b>Protection of works</b> [11.1] Specific requirements</p> <p>12.1.23 <b>Disturbance</b> [11.5] Specific requirements: The contractor shall keep the site, structures, etc. well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent</p> <p>12.1.22 <b>Protection of works</b> [11.1] Specific requirements</p> <p>12.1.23 <b>Disturbance</b> [11.5] Specific requirements: The contractor shall keep the site, structures, etc. well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent</p> <p>12.1.24 <b>Environmental disturbance</b> [11.6] Specific requirements:</p> <p><b>12.2 POST-TENDER INFORMATION</b></p> <p>12.2.1 <b>Payment of preliminaries</b> [10.2] Option A (prorated) <span style="float: right;">YES/NO</span></p> <p>Option B (calculates) <span style="float: right;">YES/NO</span></p> <p>12.2.2 <b>Adjustment of preliminaries</b> [10.3] Option A (three categories) <span style="float: right;">YES/NO</span></p> <p>Option B (detailed breakdown) <span style="float: right;">YES/NO</span></p> <p>12.2.3 <b>Additional agreed preliminaries items</b> Details:</p> <p style="text-align: right;"><b>Carried to Collection</b></p>	<p><b>R</b></p>
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**SECTION C: SPECIFIC PRELIMINARIES**

**Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item**

101 **C1 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer the acquaint himself with the nature and extend of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

102 **C2 GENERAL PREAMBLES**

The document Specification of Materials and Methods to be used (PW371) is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the **bills of quantities** and be referred to for the full descriptions of work to be done and materials to be used

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

103 **C3 TRADE NAMES**

Wherever a trade name of any product has been described in the **bills of quantities**, the tenderers attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

**Carried to Collection**

**R**

104 **C4 IMPORTED MATERIALS AND EQUIPMENT**

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

105 **C5 VIEWING THE SITE IN SECURITY AREAS**

The **site** is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the **site** for tendering purposes

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

106 **C6 COMMENCEMENT OF WORKS IN SECURITY AREAS**

As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractors** account

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

**Carried to Collection**

**R**

107 **C7 ENTRANCE PERMITS TO SECURITY AREAS**

As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

108 **C8 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

item

109 **C9 PROHIBITION ON TAKING OF PHOTOGRAPHS**

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civic works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister.

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

**Carried to Collection**

**R**

**C10 HIV/AIDS AWARENESS**

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities.

Provision for pricing of HIV/AIDS awareness is made under items C10.1 TO C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 31 of Section A:

Preliminaries (Section A) or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

110 **C10.1 AWARENESS CHAMPION**

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

111 **C10.2 AWARENESS WORKSHOPS**

Selection and appointment of a completed Services Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
Time related: \_\_\_\_\_

item

**Carried to Collection**

**R**

112 **C10.3 POSTERS, BOOKLETS, VIDEOS, ETC**  
 Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

113 **C10.4 ACCESS TO CONDOMS**  
 Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

114 **C10.5 MONITORING**  
 Monitoring HIV/AIDS awareness of workers, providing the **Principal Agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_  
 Time related: \_\_\_\_\_

**Carried to Collection**

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PRELIMINARIES  
Bill No.1  
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Bill No.1

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PRELIMINARIES

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PRELIMINARIES  
Bill No. 1

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## **SECTION NO. 2**

### **Demolitions and Renovations**

Amount

Unit

Quantity

Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 1**

**DEMOLITIONS**

**PREAMBLES**

For preambles see "Specifications and methods to be used - PW371"

**DEMOLITIONS, ETC**

**Demolition of existing dilapidated buildings comprising of concrete surface beds, half brick walls, corrugated iron roof covering on timber trusses including breaking up and removing all foundation concrete and brickwork, filling with selected earth filling and compact to 93% Mod AASHTO**

- 1 Single storey building with pitched roof, 243m2 on plan and 2850mm high at eaves, comprising unreinforced concrete surface bed, 230mm thick external walls, 230mm thick internal walls and corrugated roof covering on timber trusses
- 2 Single storey building with pitched roof, 56m2 on plan and 2850mm high at eaves, comprising unreinforced concrete surface bed, 230mm thick external walls, 230mm thick internal walls and corrugated roof covering on timber trusses
- 3 Pit toilet 20m2 on plan and 2850mm high at eaves, comprising pits, unreinforced concrete surface bed, 230mm thick external walls, 115mm thick internal walls, corrugated roof covering on timber trusses, sucking waste in pits, filling and level the ground

No

4

No

1

No

1

Carried To Section Summary

R

Section No. 2  
 Bill No. 1  
 Demolitions



	Unit	Quantity	Rate	Amount
<b><u>Hack up and removing granolithic screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, etc</u></b>				
11	m <sup>2</sup>	796		
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u></b>				
12	m <sup>2</sup>	960		
13	m <sup>2</sup>	73		
Carried to Collection				
Section No. 2			<b>R</b>	
Bill No. 2				
Alterations				

**BILL NO. 2**  
**ALTERATIONS**  
**COLLECTION**

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Section No. 2  
Bill No. 2  
Alterations

Amount

Unit

Quantity

Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 3**

**EARTHWORKS**

**PREAMBLES**

**For preambles see "Specifications and methods to be used - PW371"**

**EXCAVATIONS ETC**

**Open face excavation in earth over site**

1 Open face excavation

m<sup>3</sup>

16

**FILLING ETC**

**Earth filling obtained from the excavations (not compacted)**

2 Over site to make up levels

m<sup>3</sup>

54

**Compaction of surfaces**

3 Compaction of ground surface by compactor

m<sup>2</sup>

360

Carried To Section Summary

**R**

Section No. 2

Bill No. 3

Earthworks

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 2</b>				
<b><u>Demolitions and Renovations</u></b>				
<b>BILL NO. 4</b>				
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
<b><u>PREAMBLES</u></b>				
For preambles see "Specification of materials and methods to be used - PW371"				
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>UNREINFORCED CONCRETE</u></b>				
<b><u>15Mpa/19mm Concrete</u></b>				
1	m <sup>3</sup>	36		
2	m <sup>3</sup>	4		
3	m	360		
<b><u>REINFORCED CONCRETE</u></b>				
<b><u>25 MPa/19mm Concrete:</u></b>				
4	m <sup>3</sup>	25		
<b><u>TEST BLOCKS</u></b>				
<b><u>Test blocks:</u></b>				
5	Sets	15		
<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>				
6	m <sup>2</sup>	360		
7	m <sup>2</sup>	8		
<b><u>ROUGH FORMWORK</u></b>				
<b><u>Rough formwork to sides:</u></b>				
8	m	368		
<b><u>MOVEMENT JOINTS ETC</u></b>				
<b><u>Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed:</u></b>				
9	m	60		
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Section No. 2				
Bill No. 4				
Concrete, Formwork And Reinforcement				
			<b>R</b>	

	Unit	Quantity	Rate	Amount
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u></b>				
10	m	75		
<b><u>Dividing Strips ,etc</u></b>				
11	m	5		
<b><u>REINFORCEMENT(PROVISIONAL)</u></b>				
<b><u>Fabric reinforcement:</u></b>				
12	m <sup>2</sup>	247		
Carried to Collection				
Section No. 2				
Bill No. 4				
Concrete, Formwork And Reinforcement				
			<b>R</b>	

**BILL NO. 4**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

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Section No. 2  
Bill No. 4  
Concrete, Formwork And Reinforcement

Amount

Unit

Quantity

Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 5**

**MASONRY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371"

**BRICKWORK**

**Sizes in descriptions:**

Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.

**Face bricks:**

Bricks shall be ordered timeously to obtain uniformity in size and colour.

**Pointing:**

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.

**SAMPLES**

Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.

**FACE BRICKWORK COPINGS, SILLS, ETC.**

**Brick-on-edge header course copings, sills, etc of face bricks prime cost R5500/1000 delivered to site excluding VAT and pointed with recessed joints on all exposed faces:**

1	230mm Wide sill set sloping and slightly projecting.	m	32		
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Carried To Section Summary

R

Section No. 2

Bill No. 5

Masonry

Amount

Unit      Quantity      Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 6**

**ROOF COVERINGS**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW 371

**General**

**PROFILED METAL SHEETING AND ACCESSORIES**

**0.58mm "Klip-lok light industrial" galvanised troughed sheet steel with "chromadek" finish one side, fixed to 76 x 50mm purlin complete under 5year guarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer**

1 Roof covering with pitch not exceeding 25 degrees.      m<sup>2</sup>      1 109

**0.58mm galvanised sheet iron, with "chromadek" one side in:**

2 Standard type FK3 ridge or hip flashing      m      107

Carried To Section Summary

**R**

Section No. 2  
Bill No. 6  
Roof Coverings

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b>  <b><u>Demolitions and Renovations</u></b>  <b><u>BILL NO. 7</u></b>  <b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b>                      For preambles see "Specification of materials and methods to be used - PW371</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Particle board:</u></b>                      Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.</p> <p><b><u>Joinery:</u></b>                      Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.                      Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p><b><u>Fixing:</u></b>                      Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><b><u>Decorative laminate finish:</u></b>                      Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.</p> <p><b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b></p> <p><b><u>Plate nailed timber roof truss construction:</u></b>                      The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantine that the trusses are designed, manufactured,and erected, to support the roof coverings specified. The quarantine shall be valid for 10(ten) years .</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2                      Bill No. 7                      Carpentry And Joinery</p>			R	

	Unit	Quantity	Rate	Amount
<b><u>ROOF SUNDRIES</u></b>				
<b><u>Sundries:</u></b>				
1	m <sup>2</sup>	91		
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Everite FC77 or equal approved pressed fibre-cement:</u></b>				
2	m	384		
<b><u>Wrought meranti doors:</u></b>				
<b><u>Wrought meranti doors hung to steel frames:</u></b>				
3	No	24		
<b><u>DOORS ETC</u></b>				
<b><u>Semi-solid flush doors with veneer</u></b>				
4	No	28		
Carried to Collection				
Section No. 2				
Bill No. 7				
Carpentry And Joinery				
			<b>R</b>	

**BILL NO. 7**  
**CARPENTRY AND JOINERY**  
**COLLECTION**

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Section No. 2  
Bill No. 7  
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 2</b>				
<b><u>Demolitions and Renovations</u></b>				
<b>BILL NO. 8</b>				
<b><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></b>				
<b><u>PREAMBLES</u></b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Descriptions:</u></b>				
Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.				
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.				
<b><u>INSULATION</u></b>				
<b><u>Aerolite insulation:</u></b>				
1		100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m <sup>2</sup>	964
<b><u>Wrought softwood</u></b>				
2		19 x 76mm cornices nailed	m	450
<b><u>NAILED UP AND SCREW UP CEILINGS</u></b>				
<b><u>6mm Everite Nutec or equal approved fibre-cement boards with H-type steel cover strips over joints:</u></b>				
3		Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m <sup>2</sup>	964
4		Extra over ceiling for hinged trap door size 610 x 610mm	No	17
Carried To Section Summary				
Section No. 2				
Bill No. 8				
Ceilings Partitions And Access Flooring				
			<b>R</b>	

Amount

Unit      Quantity      Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 9**

**IRONMONGERY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SUPPLEMENTARY PREAMBLES**

**Finishes to ironmongery:**

Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.

**SUNDRIES**

**Brass or equal approved:**

- |   |                             |    |     |  |  |
|---|-----------------------------|----|-----|--|--|
| 1 | Sliding window stay plugged | No | 160 |  |  |
| 2 | Window handle plugged       | No | 160 |  |  |

**Locks:**

**Solid or equal approved:**

- |   |  |    |    |  |  |
|---|--|----|----|--|--|
| 3 | CZ682-24-95SC"Gower" three lever lockset plugged | No | 52 |  |  |
|---|--|----|----|--|--|

**CATCHES, CABIN HOOKS, ETC**

**Solid or equal approved**

- |   |  |    |    |  |  |
|---|--|----|----|--|--|
| 4 | 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled plugged | No | 24 |  |  |
|---|--|----|----|--|--|

**LOCKS**

**Solid or equal approved**

- |   |                            |    |    |  |  |
|---|----------------------------|----|----|--|--|
| 5 | 'Code 63' padlock plugged. | No | 24 |  |  |
|---|----------------------------|----|----|--|--|

**PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC**

- |   |   |    |    |  |  |
|---|---|----|----|--|--|
| 6 | Pinning board 2400 x 1200mm high plugged. | No | 20 |  |  |
|---|---|----|----|--|--|

Carried to Collection

R

Section No. 2  
Bill No. 9  
Ironmongery

	Unit	Quantity	Rate	Amount
7 Vitrex or equal approved system enamelled green folding ,writing board with wall mounted centre board 4800 x 1220mm high with chalk rail and two swing leaves each 1200 x 1220mm high plugged with chalk rail plugged.	No	10		
<b><u>Greenfield steel lockers with standard baked enamel finish</u></b>				
8 Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork.	No	10		
Carried to Collection				
Section No. 2			<b>R</b>	
Bill No. 9				
Ironmongery				

**BILL NO. 9**  
**IRONMONGERY**  
**COLLECTION**

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Carried To Section Summary

R

Section No. 2  
Bill No. 9  
Ironmongery

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 2</b>				
<b>Demolitions and Renovations</b>				
<b>BILL NO. 10</b>				
<b>METALWORK</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b>SUPPLEMENTARY PREAMBLES</b>				
<b>Descriptions:</b>				
Descriptions of bolts shall be deemed to include nuts and washers.				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.				
Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.				
<b>MILD STEEL HANDRAILS AND BALUSTRADING</b>				
<b><u>Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm dia. Mild steel round spaced at 150mm centres, pedrilled opening 3No. In each upright, top rail to be 30mm thick x 100mm wide steel</u></b>				
1	m	83		
<b>WELDED SCREENS, GATES, ETC.</b>				
<b>Gates to external doors</b>				
2	No	24		
<b>Repair to existing door frames</b>				
3	No	24		
Carried To Section Summary				
Section No. 2				
Bill No. 10				
Metalwork				
			<b>R</b>	

Amount

Unit

Quantity

Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 11**

**PLASTERING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SCREEDS**

**Screeds on concrete:**

**Screeds of wood floated on concrete to receive ceramic tiles:**

1 30mm Thick on floors and landings.

m<sup>2</sup>

796

**GRANOLITHIC**

**Untinted wood floated granolithic on concrete**

2 30mm Thick on floors and landings.

m<sup>2</sup>

120

**INTERNAL PLASTER**

**Cement plaster steel trowelled, on brickwork**

3 On walls

m<sup>2</sup>

960

Carried To Section Summary

**R**

Section No. 2

Bill No. 11

Plastering

Amount

Unit

Quantity

Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 12**

**TILING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**FLOOR TILING**

**300 x 300 x 11.5mm ceramic floor tiles (Prime Cost amount R250.00/m2 delivered excluding vat) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound**

1	On floors and landings.	m <sup>2</sup>	740		
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	212		

Carried To Section Summary

**R**

Section No. 2

Bill No. 12

Tiling

	Unit	Quantity	Rate	Amount
<p><b>SECTION NO. 2</b></p> <p><b><u>Demolitions and Renovations</u></b></p> <p><b><u>BILL NO. 13</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For preambles see "Specification of materials and methods to be used - PW371</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Concrete pipes:</u></b></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><b><u>uPVC pressure pipes and fittings:</u></b></p> <p>Pipes for water supply shall be of the class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p><b><u>Copper pipes:</u></b></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><b><u>Fixing of pipes</u></b></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level</p>				
<p>Section No. 2</p> <p>Bill No. 13</p> <p>Plumbing And Drainage</p>			<p>Carried to Collection</p> <p>R</p>	

	Unit	Quantity	Rate	Amount
<p><b><u>Reducing fittings:</u></b></p>				
<p>Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p>				
<p><b><u>Wire gratings:</u></b></p>				
<p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p>				
<p><b><u>Septic tanks:</u></b></p>				
<p>Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.</p>				
<p><b><u>Exposed concrete surfaces:</u></b></p>				
<p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p>				
<p><b><u>Excavations:</u></b></p>				
<p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p>				
<p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p>				
<p><b><u>Laying, backfilling, bedding, etc of pipes:</u></b></p>				
<p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p>				
<p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.</p>				
<p><b><u>Flush pans:</u></b></p>				
<p>Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p>				
<p style="text-align: right;">Carried to Collection</p>			R	
<p>Section No. 2 Bill No. 13 Plumbing And Drainage</p>				

	Unit	Quantity	Rate	Amount
<b><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></b>				
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
<b><u>Waste unions:</u></b>				
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.				
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Approved .6mm galvanised sheet iron with "chromadek" finish ,in:</u></b>				
1	m	360		
2	No	4		
3	No	34		
4	No	54		
5	m	168		
6	No	42		
7	No	42		
<b><u>Repair enviro-loo units</u></b>				
8	No	27		
<b><u>FIRE APPLIANCES ETC.</u></b>				
<b><u>'Chubb' or equal approved:</u></b>				
9	No	17		
<b><u>RAINWATER HARVESTING</u></b>				
<b><u>Rainwater harvesting.</u></b>				
10	No	6		
Carried to Collection			R	
Section No. 2				
Bill No. 13				
Plumbing And Drainage				

**BILL NO. 13**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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**R**

Section No. 2  
Bill No. 13  
Plumbing And Drainage

Amount

Unit

Quantity

Rate

**SECTION NO. 2**

**Demolitions and Renovations**

**BILL NO. 14**

**GLAZING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**GLAZING TO STEEL WITH PUTTY**

**5mm Clear float glass:**

1 Panes not exceeding 0,1m2.

m<sup>2</sup>

60

Carried To Section Summary

**R**

Section No. 2

Bill No. 14

Glazing

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 2</b>				
<b><u>Demolitions and Renovations</u></b>				
<b><u>BILL NO. 15</u></b>				
<b><u>PAINTWORK</u></b>				
<b><u>PREAMBLES</u></b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b><u>ON FLOATED PLASTER</u></b>				
<b><u>Prepare , etc as specified and apply two coats of super acrylic paint:</u></b>				
1	m <sup>2</sup>	960		
<b><u>ON FIBRE-CEMENT, ETC.</u></b>				
<b><u>Prepare , etc as specified and apply two coats of super acrylic Pva paint:</u></b>				
2	m <sup>2</sup>	964		
3	m	450		
<b><u>ON METAL</u></b>				
<b><u>Prepare, etc as specified and apply two coats of gloss enamel paint on :</u></b>				
4	m <sup>2</sup>	78		
5	m <sup>2</sup>	278		
6	m <sup>2</sup>	245		
<b><u>Inside eaves gutter</u></b>				
7	m <sup>2</sup>	158		
<b><u>ON WOOD, WOOD BOARD</u></b>				
<b><u>Prepare, etc as specified and apply two coats of polyurethane suede varnish:</u></b>				
8	m <sup>2</sup>	79		
<b><u>ON NEW WOOD SURFACES</u></b>				
<b><u>One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u></b>				
9	m <sup>2</sup>	92		
Carried To Section Summary				
Section No. 2				
Bill No. 15				
Paintwork				
			<b>R</b>	

**SECTION NO. 2**

**Demolitions and Renovations**

**SECTION SUMMARY**

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R

Section No. 2  
SECTION SUMMARY

**SECTION NO. 3**

**4 x 5 Classroom Block**

Amount

Unit      Quantity      Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 1**

**FOUNDATIONS**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371"

**SITE CLEARANCE ETC**

**Site clearance:**

- 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.

m<sup>2</sup>      450

**REMOVAL OF TREES, ETC.**

**Taking out and removing, grubbing up roots and filling in holes:**

- 2 Tree stump exceeding 200mm and not exceeding 500mm girth.

No      1

**EXCAVATION, FILLING, ETC OTHER THAN BULK**

**Excavation in earth not exceeding 2m deep:**

- 3 Trenches.

m<sup>3</sup>      155

**Extra over trench and hole excavations in earth for excavation:**

- 4 Soft rock.

m<sup>3</sup>      12

- 5 Hard rock.

m<sup>3</sup>      6

**Risk of collapse of excavations:**

- 6 Sides of trench and hole excavations not exceeding 1,5m deep.

m<sup>2</sup>      358

**Keeping excavations free of water:**

- 7 Keeping excavations free of all water other than subterranean water.

Item

**Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:**

- 8 Backfilling to trenches, holes, etc.

m<sup>3</sup>      62

- 9 Under floors, steps, pavings, etc.

m<sup>3</sup>      56

Carried to Collection

R

Section No. 3  
Bill No. 1  
Foundations

	Unit	Quantity	Rate	Amount
<b><u>Earth filling supplied by the Contractor and compacted to 95% Mod AASHTO density):</u></b>				
10				
	m <sup>3</sup>	193		
<b><u>Cart Away</u></b>				
<b><u>Extra over excavation for cart away:</u></b>				
11				
	m <sup>3</sup>	7		
<b><u>Coarse river sand filling supplied by the Contractor:</u></b>				
12				
	m <sup>3</sup>	19		
<b><u>COMPACTION</u></b>				
<b><u>Compaction of surfaces:</u></b>				
13				
	m <sup>2</sup>	394		
<b><u>Prescribed density tests on filling:</u></b>				
14				
	No	12		
<b><u>SOIL POISONING</u></b>				
<b><u>Soil insecticide:</u></b>				
15				
	m <sup>2</sup>	394		
16				
	m <sup>2</sup>	501		
Carried to Collection				
Section No. 3				
Bill No. 1				
Foundations				
			<b>R</b>	

**BILL NO. 1**  
**FOUNDATIONS**  
**COLLECTION**

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Carried To Section Summary

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Section No. 3  
Bill No. 1  
Foundations

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 3</b>				
<b>4 x 5 Classroom Block</b>				
<b>BILL NO. 2</b>				
<b>CONCRETE, FORMWORK AND REINFORCEMENT</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371"				
<b>UNREINFORCED CONCRETE</b>				
<b>15Mpa/19mm Concrete</b>				
1	m <sup>3</sup>	10		
2	m <sup>3</sup>	2		
3	m	104		
<b>REINFORCED CONCRETE</b>				
<b>25 MPa/19mm Concrete:</b>				
4	m <sup>3</sup>	31		
5	m <sup>3</sup>	38		
<b>TEST BLOCKS</b>				
<b>Test blocks:</b>				
6	Sets	10		
<b>FINISHING TOP SURFACE OF CONCRETE</b>				
7	m <sup>2</sup>	104		
8	m <sup>2</sup>	4		
<b>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP Work Group No 111)</b>				
<b>Rough Formwork to Sides:</b>				
9	m	104		
<b>MOVEMENT JOINTS ETC</b>				
<b>Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed:</b>				
10	m	60		
Carried to Collection			<b>R</b>	
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u></b>				
11	m	75		
<b><u>Dividing Strips ,etc</u></b>				
12	m	5		
<b><u>REINFORCEMENT(PROVISIONAL)</u></b>				
<b><u>Fabric reinforcement:</u></b>				
13	m <sup>2</sup>	394		
<b><u>Steel reinforcement to structural concrete work:</u></b>				
14	Tonnes	6		
Carried to Collection				
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				
			<b>R</b>	

**BILL NO. 2**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

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Carried To Section Summary

R

Section No. 3  
Bill No. 2  
Concrete, Formwork And Reinforcement

Amount

Unit

Quantity

Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 3**

**MASONRY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371"

**BRICKWORK**

**Sizes in descriptions:**

Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.

**Face bricks:**

Bricks shall be ordered timeously to obtain uniformity in size and colour.

**Pointing:**

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.

**SAMPLES**

Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.

**BRICKWORK IN FOUNDATIONS (PROVISIONAL)**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

1	One brick walls	m <sup>2</sup>	249		
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**BRICKWORK IN SUPERSTRUCTURE**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

2	One brick walls	m <sup>2</sup>	453		
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**BRICKWORK SUNDRIES**

**Brickwork reinforcement:**

3	75mm Wide reinforcement built in horizontally.	m	102		
---	--	---	-----	--	--

4	150mm Wide reinforcement built in horizontally.	m	2 118		
---	---	---	-------	--	--

Carried to Collection

R

Section No. 3

Bill No. 3

Masonry

	Unit	Quantity	Rate	Amount
<b><u>Turning pieces:</u></b>				
5	m	51		
<b><u>Galvanised wire ties etc:</u></b>				
6	No	104		
<b><u>Galvanised hoop iron cramps, ties, etc:</u></b>				
7	No	104		
<b><u>FACE BRICKWORK</u></b>				
<b><u>Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:</u></b>				
8	m <sup>2</sup>	318		
9	m <sup>2</sup>	92		
10	m <sup>2</sup>	31		
<b><u>FACE BRICKWORK COPINGS, SILLS, ETC.</u></b>				
<b><u>Brick-on-edge header course copings, sills, etc of face bricks (Prime cost R5500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces:</u></b>				
11	m	56		
12	m	51		
13	m	46		
<b><u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u></b>				
<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u></b>				
14	m	51		
Carried to Collection				
Section No. 3				
Bill No. 3				
Masonry				
			R	

**BILL NO. 3**  
**MASONRY**  
**COLLECTION**

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Section No. 3  
Bill No. 3  
Masonry

Amount

Unit      Quantity      Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 4**

**WATERPROOFING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**DAMPPROOFING OF WALLS AND FLOORS**

**One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:**

1	In walls.	m <sup>2</sup>	43		
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**One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:**

2	Under surface beds.	m <sup>2</sup>	394		
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**JOINT SEALANTS ETC**

**silicone sealing compound including backing cord, bond breaker, primer, etc**

3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional)	m	99		
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4	12 x 20mm in vertical expansion joints in walls including raking out expansion joint filler as necessary	m	68		
---	--	---	----	--	--

Carried To Section Summary

**R**

Section No. 3  
Bill No. 4  
Waterproofing

Amount

Unit

Quantity

Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 5**

**ROOF COVERINGS**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW 371

**PROFILED METAL SHEETING AND ACCESSORIES**

**0.58mm "Klip-lok light industrial" galvanised troughed sheet steel with "Globalcoat" finish one side (colour Traffic Green), fixed to 76 x 50mm purlin complete under 5year quarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer**

1 Roof covering with pitch not exceeding 25 degrees.

m<sup>2</sup>

453

**0.58mm galvanised sheet iron, with "chromadek" one side in:**

2 Standard type FK3 ridge or hip flashing

m

47

Carried To Section Summary

R

Section No. 3

Bill No. 5

Roof Coverings

	Unit	Quantity	Rate	Amount
<p><b>SECTION NO. 3</b></p> <p><b>4 x 5 Classroom Block</b></p> <p><b>BILL NO. 6</b></p> <p><b>CARPENTRY AND JOINERY</b></p> <p><b>PREAMBLES</b></p> <p>For preambles see "Specification of materials and methods to be used - PW371</p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p><b>Particle board:</b></p> <p>Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.</p> <p><b>Joinery:</b></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p><b>Fixing:</b></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><b>Decorative laminate finish:</b></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.</p> <p><b>PREFABRICATED ROOF TRUSSES, ETC.</b></p> <p><b>Plate nailed timber roof truss construction:</b></p> <p>The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantine that the trusses are designed, manufactured,and erected, to support the roof coverings specified. The quarantine shall be valid for 10(ten) years .</p>				
<p>Section No. 3</p> <p>Bill No. 6</p> <p>Carpentry And Joinery</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<b><u>Sawn softwood:</u></b>				
1				
Roof construction to double pitched roof with two gable ends approximately 394m <sup>2</sup> ( five classrooms) on plan overall including trusses, rafters, purlins, permanent bracing, etc (measured flat).				
	No	1		
<b><u>ROOF CONSTRUCTION</u></b>				
<b><u>Sawn softwood :</u></b>				
2	m	87		
114 x 38mm Wall plates.				
3	m	37		
114 x 38mm rafters exceeding 2.4m and not exceeding 3.9m.				
4	m	180		
50 x 76mm purlins.				
5	m	29		
50 x 220mm support beam.				
<b><u>ROOF SUNDRIES</u></b>				
<b><u>Sundries:</u></b>				
6	m <sup>2</sup>	26		
Two coats creosote on sawn timbers.				
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Everite FC77 or equal approved pressed fibre-cement:</u></b>				
7	m	87		
10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.				
<b><u>Wrought meranti doors:</u></b>				
<b><u>Wrought meranti doors hung to steel frames:</u></b>				
8	No	5		
44mm Framed batten door 914 x 2032mm high of 44 x 150mm top rail and stiles ,16 x 150mm middle ledge and braces and 22 x 220mm bottom rail, filled in with 22mmV-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round.				
Carried to Collection			R	
Section No. 3				
Bill No. 6				
Carpentry And Joinery				

**BILL NO. 6**  
**CARPENTRY AND JOINERY**  
**COLLECTION**

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Section No. 3  
Bill No. 6  
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 3</b>				
<b>4 x 5 Classroom Block</b>				
<b>BILL NO. 7</b>				
<b>CEILINGS PARTITIONS AND ACCESS FLOORING</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b>SUPPLEMENTARY PREAMBLES</b>				
<b>Descriptions:</b>				
Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.				
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.				
<b>INSULATION</b>				
<b>Aerolite insulation:</b>				
1		100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m <sup>2</sup>	394
<b>Wrought softwood</b>				
2		19 x 76mm cornices nailed	m	243
<b>NAILED UP AND SCREW UP CEILINGS</b>				
<b>6mm Everite Nutec or equal approved fibre-cement boards with H-type steel cover strips over joints:</b>				
3		Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m <sup>2</sup>	394
4		Extra over ceiling for hinged trap door size 610 x 610mm	No	5
Carried To Section Summary				
Section No. 3				
Bill No. 7				
Ceilings Partitions And Access Flooring				
			<b>R</b>	

Amount

Unit      Quantity      Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 8**

**IRONMONGERY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SUPPLEMENTARY PREAMBLES**

**Finishes to ironmongery:**

Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.

**CATCHES, CABIN HOOKS, ETC**

**Solid or equal approved:**

- 1 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.

No      3

**LOCKS**

**Solid or equal approved:**

- 2 "Code 630" padlock plugged.

No      3

**'Solid" or equal approved**

- 3 Code 2252-76 three lever upright mortice lock plugged.

No      3

**SUNDRIES**

**Solid or equal approved:**

- 4 38mm Diameter rubber door stop plugged.

No      3

**PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC**

**Vitrex or equal approved:**

- 5 Pinning board 2400 x 1200mm high plugged.
- 6 Vitrex system enamelled green folding ,writing board with wall mounted centre board 4800 x 1220mm high with chalk rail and two swing leaves each 1200 x 1220mm high plugged with chalk rail plugged.

No      6

No      3

Carried to Collection

R

Section No. 3  
Bill No. 8  
Ironmongery

Amount

Unit

Quantity

Rate

**STEEL CABINTES**

**Free standing proprietary type steel shelving units with standard powder coated finish, including heavy duty uprights, open base foot pieces, shelf brackets, shelves, spacers, top rails, top finishing plates and adjustable book clips**

7 Double shelving unit 1800 x 450 x 2 200mm high in 4 bays with uprights, each bay 914mm wide with shelves

No

3

Carried to Collection

R

Section No. 3  
Bill No. 8  
Ironmongery

**BILL NO. 8**  
**IRONMONGERY**  
**COLLECTION**

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Section No. 3  
Bill No. 8  
Ironmongery

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 3</b>				
<b>4 x 5 Classroom Block</b>				
<b>BILL NO. 9</b>				
<b>METALWORK</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b>SUPPLEMENTARY PREAMBLES</b>				
<b>Descriptions:</b>				
Descriptions of bolts shall be deemed to include nuts and washers.				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.				
Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.				
<b>STEEL BALUSTRADES AND HANDRAILS</b>				
<b><u>Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm dia. Mild steel round spaced at 150mm centres, pedrilled opening 3No. In each upright, top rail to be 30mm thick x 100mm wide steel</u></b>				
1	m	6		
<b>Mild Steel Poles</b>				
2	No	17		
			Carried to Collection	R
Section No. 3				
Bill No. 9				
Metalwork				

	Unit	Quantity	Rate	Amount
<b><u>COMBINATION DOOR FRAME WITH SECURITY GATE</u></b>				
<b><u>Classroom combination door frame with security gate</u></b>				
3				
"Code 914" door frame size 914 x 2032mm high fitted with three (3) parliament hinges, complete with single security gate size 914 x 2032mm high overall formed of 25 x 25 x 2mm tubular section frame mitred and welded at angles and two 25 x 25 x 2mm tubular section horizontal middle rails, gate filled in with 12 x 12 x 12mm square section vertical rails at 100mm centres and fitted with locking bolt for padlock, frame formed of 25 x 38 x 2mm tubular section stiles and top rail mitred and welded at angles and fitted with three hinges welded to gate and frame, frame factory welded at maximum 250mm centres to door frame	No	5		
<b><u>STEEL WINDOWS, DOORS, ETC.</u></b>				
<b><u>Standard residential windows with 12 x 12(B33) solid burglar bars to all sashes:</u></b>				
4				
Window Code 5/2 (NTY or equal approved), 1143 x 1332mm high.	No	45		
<b><u>STEEL LOUVRES,ETC</u></b>				
<b><u>Purpose made louvres:</u></b>				
5				
Triangular shaped (on elevation) residential section louvred ventilators 3138 wide (at the horizontal bottom) x 571mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No. 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed	No	2		
Carried to Collection				
Section No. 3				
Bill No. 9				
Metalwork				
			<b>R</b>	

**BILL NO. 9**  
**METALWORK**  
**COLLECTION**

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Carried To Section Summary

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Section No. 3  
Bill No. 9  
Metalwork

Amount

Unit

Quantity

Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 10**

**PLASTERING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SCREEDS**

**Screeds on concrete:**

**Screeds of wood floated on concrete to receive ceramic tiles:**

1 30mm Thick on floors to receive ceramic tiling.

m<sup>2</sup>

318

**GRANOLITHIC**

**Untinted wood floated granolithic on concrete**

2 30mm Thick on floors and landings.

m<sup>2</sup>

76

**INTERNAL PLASTER**

**Cement plaster steel trowelled, on brickwork**

3 On walls

m<sup>2</sup>

474

4 On narrow widths not exceeding 300mm wide

m<sup>2</sup>

22

**CORNER PROTECTORS, DIVIDING STRIPS, ETC (CPAP Work Group No 136)**

5 30 x 3mm Flat section brass dividing strips between different floor finishes.

m

5

Carried To Section Summary

R

Section No. 3

Bill No. 10

Plastering

Amount

Unit

Quantity

Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 11**

**TILING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**FLOOR TILING**

**300 x 300 x 11.5mm ceramic floor tiles (Prime Cost amount R250.00/m2 excluding vat) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound**

- |  | Unit           | Quantity | Rate | Amount |
|--|----------------|----------|------|--------|
| 1 On floors and landings.                                | m <sup>2</sup> | 318      |      |        |
| 2 Skirting formed of ceramic tile cut to 300 x 75mm high | m              | 155      |      |        |

Carried To Section Summary

**R**

Section No. 3

Bill No. 11

Tiling

	Unit	Quantity	Rate	Amount
<p><b>SECTION NO. 3</b></p> <p><b>4 x 5 Classroom Block</b></p> <p><b>BILL NO. 12</b></p> <p><b>PLUMBING AND DRAINAGE</b></p> <p><b>PREAMBLES</b></p> <p>For preambles see "Specification of materials and methods to be used - PW371</p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p><b>Concrete pipes:</b></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><b>uPVC pressure pipes and fittings:</b></p> <p>Pipes for water supply shall be of the class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p><b>Copper pipes:</b></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><b>Fixing of pipes</b></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level</p>				
<p>Section No. 3</p> <p>Bill No. 12</p> <p>Plumbing And Drainage</p>			<p>Carried to Collection</p> <p>R</p>	

	Unit	Quantity	Rate	Amount
<p><b><u>Reducing fittings:</u></b> Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><b><u>Wire gratings:</u></b> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p> <p><b><u>Septic tanks:</u></b> Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.</p> <p><b><u>Exposed concrete surfaces:</u></b> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p> <p><b><u>Excavations:</u></b> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. 'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><b><u>Laying, backfilling, bedding, etc of pipes:</u></b> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.</p> <p><b><u>Flush pans:</u></b> Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p>				
<p>Section No. 3 Bill No. 12 Plumbing And Drainage</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<b><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></b>				
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
<b><u>Waste unions:</u></b>				
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.				
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Approved .6mm galvanised sheet iron with "chromadek" finish ,in:</u></b>				
1	m	108		
2	No	4		
3	No	26		
4	m	104		
5	No	26		
6	No	26		
<b><u>FIRE APPLIANCES ETC.</u></b>				
<b><u>'Chubb' or equal approved</u></b>				
7	No	5		
<b><u>RAINWATER HARVESTING</u></b>				
<b><u>Rainwater harvesting</u></b>				
8	No	2		
Carried to Collection			R	

Section No. 3  
 Bill No. 12  
 Plumbing And Drainage

**BILL NO. 12**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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Section No. 3  
Bill No. 12  
Plumbing And Drainage

Amount

Unit

Quantity

Rate

**SECTION NO. 3**

**4 x 5 Classroom Block**

**BILL NO. 13**

**GLAZING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**GLAZING TO STEEL WITH PUTTY**

**5mm Clear float glass:**

1 Panes not exceeding 0,1m2.

m<sup>2</sup>

44

**5mm obscure glass:**

2 Panes not exceeding 0,1m2.

m<sup>2</sup>

25

Carried To Section Summary

**R**

Section No. 3

Bill No. 13

Glazing

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 3</b>				
<b>4 x 5 Classroom Block</b>				
<b>BILL NO. 14</b>				
<b>PAINTWORK</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b>ON NEW INTERNAL FLOATED PLASTER SURFACES</b>				
<b>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</b>				
1	Walls	m <sup>2</sup>	474	
<b>ON FIBRE-CEMENT, ETC.</b>				
<b>Prepare , etc as specified and apply two coats of super acrylic Pva paint:</b>				
2	On ceilings and cornices.	m <sup>2</sup>	394	
3	On fascias and barge boards.	m	104	
<b>ON METAL</b>				
<b>Prepare, etc as specified and apply two coats of gloss enamel paint on :</b>				
4	Door frames	m <sup>2</sup>	8	
5	On windows with burglar bars (both sides measured).	m <sup>2</sup>	136	
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area).	m <sup>2</sup>	29	
7	Steel poles	m	51	
<b>Eaves gutter</b>				
8	To inside of eaves gutter with waterproofing paint	m <sup>2</sup>	38	
<b>ON WOOD, WOOD BOARD</b>				
<b>Prepare, etc as specified and apply two coats of polyurethane suede varnish:</b>				
9	On general surfaces of doors.	m <sup>2</sup>	17	
10	On laminated beam.	m <sup>2</sup>	25	
Carried To Section Summary				
Section No. 3				
Bill No. 14				
Paintwork				
			<b>R</b>	

**SECTION NO. 3**

**4 x 5 Classroom Block**

**SECTION SUMMARY**

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Section No. 3  
SECTION SUMMARY

## **SECTION NO. 4**

### **Medium Administration Block**





**BILL NO. 1**  
**FOUNDATIONS**  
**COLLECTION**

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Section No. 4  
Bill No. 1  
Foundations

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 4</b>				
<b>Medium Administration Block</b>				
<b>BILL NO. 2</b>				
<b>CONCRETE, FORMWORK AND REINFORCEMENT</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371"				
<b>UNREINFORCED CONCRETE</b>				
<b>15Mpa/19mm Concrete</b>				
1				
	m <sup>3</sup>	11		
2				
	m <sup>3</sup>	4		
3				
	m	79		
<b>REINFORCED CONCRETE</b>				
<b>25MPa/19mm Concrete:</b>				
4				
	m <sup>3</sup>	27		
5				
	m <sup>3</sup>	27		
6				
	m <sup>3</sup>	2		
<b>TEST BLOCKS</b>				
<b>Test blocks:</b>				
7				
	Sets	20		
<b>FINISHING TOP SURFACE OF CONCRETE</b>				
8				
	m <sup>2</sup>	79		
<b>ROUGH FORMWORK (DEGREE OF ACCURACY III)</b>				
<b>Rough Formwork to Sides:</b>				
9				
	m	25		
<b>Rough Formwork to Soffits:</b>				
10				
	m <sup>2</sup>	10		
Carried to Collection				
Section No. 4			<b>R</b>	
Bill No. 2				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
<b><u>MOVEMENT JOINTS ETC</u></b>				
<b><u>Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed:</u></b>				
11	m	70		
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u></b>				
12	m	75		
<b><u>Dividing Strips ,etc</u></b>				
13	m	8		
<b><u>REINFORCEMENT(PROVISIONAL)</u></b>				
<b><u>Fabric reinforcement:</u></b>				
14	m <sup>2</sup>	297		
15	m <sup>2</sup>	10		
<b><u>Mild steel reinforcement to structural concrete work:</u></b>				
16	Tonnes	1,00		
<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
17	Tonnes	1,00		
18	Tonnes	2,00		
19	Tonnes	1,00		
Carried to Collection				
Section No. 4			<b>R</b>	
Bill No. 2				
Concrete, Formwork And Reinforcement				

**BILL NO. 2**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

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R

Section No. 4  
Bill No. 2  
Concrete, Formwork And Reinforcement

Amount

Unit      Quantity      Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 3**

**MASONRY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371"

**BRICKWORK**

**Sizes in descriptions:**

Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.

**Face bricks:**

Bricks shall be ordered timeously to obtain uniformity in size and colour.

**Pointing:**

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.

**SAMPLES**

Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.

**BRICKWORK IN FOUNDATIONS (PROVISIONAL)**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

1	Half brick walls.	m <sup>2</sup>	36
2	One brick walls	m <sup>2</sup>	130

**BRICKWORK IN SUPERSTRUCTURE**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

3	Piers	m <sup>3</sup>	3
4	Half brick walls	m <sup>2</sup>	138
5	Half brick walls in beam filling.	m <sup>2</sup>	28
6	One brick walls	m <sup>2</sup>	357

Carried to Collection

R

Section No. 4  
Bill No. 3  
Masonry

	Unit	Quantity	Rate	Amount
<b><u>BRICKWORK SUNDRIES</u></b>				
<b><u>Brickwork reinforcement:</u></b>				
7	m	749		
8	m	3 125		
<b><u>Prestressed fabricated lintels:</u></b>				
9	m	55		
<b><u>Turning pieces:</u></b>				
10	m	55		
11	m	20		
<b><u>Galvanised wire ties etc:</u></b>				
12	No	125		
<b><u>Galvanised hoop iron cramps, ties, etc:</u></b>				
13	No	125		
<b><u>FACE BRICKWORK</u></b>				
<b><u>Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:</u></b>				
14	m <sup>2</sup>	297		
15	m <sup>2</sup>	51		
16	m <sup>2</sup>	4		
17	m <sup>2</sup>	27		
<b><u>FACE BRICKWORK COPINGS, SILLS, ETC.</u></b>				
<b><u>Brick-on-edge header course copings, sills, etc of face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces:</u></b>				
18	m	54		
19	m	17		
20	m	14		
Carried to Collection			R	
Section No. 4				
Bill No. 3				
Masonry				

	Unit	Quantity	Rate	Amount
21	m	10		
22	m	14		
<b><u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u></b>				
<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u></b>				
23	m	8		
Carried to Collection			<b>R</b>	
Section No. 4				
Bill No. 3				
Masonry				

**BILL NO. 3**  
**MASONRY**  
**COLLECTION**

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Section No. 4  
Bill No. 3  
Masonry

Amount

Unit      Quantity      Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 4**

**WATERPROOFING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**DAMPPROOFING OF WALLS AND FLOORS**

**One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:**

1	In walls.	m <sup>2</sup>	38		
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**One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:**

2	Under surface beds.	m <sup>2</sup>	297		
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**JOINT SEALANTS ETC**

**Silicone sealing compound including backing cord, bond breaker, primer, etc**

3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional).	m	46		
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4	12 x 20mm in vertical expansion joints in walls including raking out expansion joint filler as necessary.	m	40		
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Carried To Section Summary

**R**

Section No. 4  
 Bill No. 4  
 Waterproofing

Amount

Unit      Quantity      Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 5**

**ROOF COVERINGS**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW 371

**General**

**PROFILED METAL SHEETING AND ACCESSORIES**

**0.58mm "Klip-lok light industrial" galvanised troughed sheet steel with "Globalcoat" finish one side (colour Traffic Green), fixed to 76 x 50mm purlin complete under 5year quarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer**

1	Roof covering with pitch not exceeding 25 degrees.	m <sup>2</sup>	376	
	<b><u>0.58mm galvanised sheet iron, with "chromadek" one side in:</u></b>			
2	Standard type FK3 ridge or hip flashing	m	26	
3	Standard valley flashing	m	16	

Carried To Section Summary

**R**

Section No. 4  
 Bill No. 5  
 Roof Coverings

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 4</u></b></p>				
<p><b><u>Medium Administration Block</u></b></p>				
<p><b><u>BILL NO. 6</u></b></p>				
<p><b><u>CARPENTRY AND JOINERY</u></b></p>				
<p><b><u>PREAMBLES</u></b></p>				
<p>For preambles see "Specification of materials and methods to be used - PW371</p>				
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>				
<p><b><u>Particle board:</u></b></p>				
<p>Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.</p>				
<p><b><u>Joinery:</u></b></p>				
<p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p>				
<p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p>				
<p><b><u>Fixing:</u></b></p>				
<p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p>				
<p><b><u>Decorative laminate finish:</u></b></p>				
<p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.</p>				
<p><b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b></p>				
<p><b><u>Plate nailed timber roof truss construction:</u></b></p>				
<p>The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantine that the trusses are designed, manufactured,and erected, to support the roof coverings specified. The quarantine shall be valid for 10(ten) years .</p>				
<p>Section No. 4 Bill No. 6 Carpentry And Joinery</p>				
<p>Carried to Collection</p>				
<p>R</p>				

	Unit	Quantity	Rate	Amount
<b><u>Sawn softwood:</u></b>				
1	No	1		
Roof construction to double pitched roof with two hipped ends approximately 297m2 (Administration Block) on plan including trusses, hipped ends, jack rafters, purlins, permanent bracing, etc (measured flat).				
<b><u>ROOF CONSTRUCTION</u></b>				
<b><u>Sawn softwood :</u></b>				
2	m	134		
114 x 38mm Wall plates.				
3	m	50		
50 x 228mm support beam				
<b><u>ROOF SUNDRIES</u></b>				
<b><u>Sundries:</u></b>				
4	m <sup>2</sup>	52		
Two coats creosote on sawn timbers.				
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Everite FC77 or equal approved pressed fibre-cement:</u></b>				
5	m	86		
10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.				
<b><u>JOINERY SUNDRIES</u></b>				
<b><u>Wrought Meranti</u></b>				
6	m <sup>2</sup>	10		
450mm wide slatted seats, etc of 76 x 38mm thick (50mm centres) screwed under and including steel 50 x 50 x 3mm L section steel holed to concrete fixed with bolts				
<b><u>SEMI SOLID CORE FLUSH DOORS</u></b>				
<b><u>44 semi-solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames:</u></b>				
7	No	11		
40mm Door 813 x 2032mm high.				
			R	
Carried to Collection				
Section No. 4				
Bill No. 6				
Carpentry And Joinery				

**BILL NO. 6**  
**CARPENTRY AND JOINERY**  
**COLLECTION**

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Section No. 4  
Bill No. 6  
Carpentry And Joinery

Amount

Unit      Quantity      Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 7**

**CEILINGS PARTITIONS AND ACCESS FLOORING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SUPPLEMENTARY PREAMBLES**

**Descriptions:**

Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.

Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.

**INSULATION**

**Aerolite insulation:**

- 1 100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.

m<sup>2</sup>      297

**Wrought softwood**

- 2 19 x 76mm cornices nailed

m      482

**NAILED UP AND SCREW UP CEILINGS**

**6mm Everite Nutec fibre-cement boards with H-type steel cover strips over joints:**

- 3 Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.

m<sup>2</sup>      297

- 4 Extra over ceiling for hinged trap door size 610 x 610mm

No      2

Carried To Section Summary

R

Section No. 4

Bill No. 7

Ceilings Partitions And Access Flooring

Amount

Unit      Quantity      Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 8**

**IRONMONGERY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SUPPLEMENTARY PREAMBLES**

**Finishes to ironmongery:**

Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.

**HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC**

**"Solid" or equal approved:**

1	150mm 8052-150 Brass flush bolt with keep fixed to metal.	No	2		
2	150mm 8052-150 Brass flush bolt with keep let into concretet.	No	2		
3	CZ 80941WC indicator bolt with keep fixed to metal.	No	2		

**CATCHES, CABIN HOOKS, ETC**

**Solid or equal approved:**

4	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	4		
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**LOCKS**

**Solid or equal approved:**

5	"Code 630" padlock.	No	2		
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**'Solid" or equal approved**

6	CZ682-24-95SC"Gower" two lever lockset.	No	11		
---	---	----	----	--	--

**DOOR CLOSERS**

**"Yale" or equal approved**

7	Y202RC Door closer with cover fixed to metal	No	2		
---	--	----	---	--	--

Carried to Collection

R

Section No. 4  
Bill No. 8  
Ironmongery

	Unit	Quantity	Rate	Amount
<b><u>BATHROOM FITTINGS</u></b>				
<b><u>Kimberley-Clark or equal approved:</u></b>				
8	No	2		
19mm Diameter chromium plated towel rail 900mm long including flanged end brackets.				
9	No	2		
Lockable toilet roll holder plugged.				
<b><u>SUNDRIES</u></b>				
<b><u>Solid or equal approved:</u></b>				
10	No	15		
38mm Diameter rubber door stop plugged.				
<b><u>MATS</u></b>				
<b><u>Squeegee or equal approved</u></b>				
11	No	2		
1500 x 800 x 17mm Door mat laid loose in mat surround fixed with 25 x 25mm aluminium angle plugged to concrete (Provisional).				
<b><u>VERTICAL AND ROLLER BLINDS</u></b>				
<b><u>127mm wide non-fade material vertical blinds as per "Windowvert" or similar approved ,fitted as per manufacturere's instructions</u></b>				
12	No	1		
To fit window 2 044 x 954mm high.				
13	No	14		
To fit window 1 511 x 1 245mm high.				
14	No	3		
To fit window 1 022 x 1 224mm high.				
15	No	5		
To fit window 533 x 949mm high.				
<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u></b>				
<b><u>Vitrex or equal approved:</u></b>				
16	No	1		
Pinning board 2400 x 1200mm high plugged.				
17	No	4		
Pinning board 3000 x 1200mm high plugged.				
<b><u>STEEL LOCKERS</u></b>				
<b><u>Greenfield steel lockers with standard baked enamel finish</u></b>				
18	No	4		
Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork.				
			R	
Section No. 4				
Bill No. 8				
Ironmongery				
Carried to Collection				

**BILL NO. 8**  
**IRONMONGERY**  
**COLLECTION**

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Section No. 4  
Bill No. 8  
Ironmongery

Amount

Unit      Quantity      Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 9**

**METALWORK**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SUPPLEMENTARY PREAMBLES**

**Descriptions:**

Descriptions of bolts shall be deemed to include nuts and washers.

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.

Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.

**Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm diameter mild steel round spaced at 150mm centres, predrilled opening 3no in each upright, top rail to be 30mm thick x 100mm wide steel**

1	Balustrades including steel handrails approximately 1000mm high fixed to concrete.	m	16		
---	--	---	----	--	--

**WELDED SCREENS, GATES, ETC.**

**Gates to external doors**

2	Ditto, double gate and frame 1613 x 2032mm high overall as per Architectural drawing	No	2		
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**PRESSED STEEL DOOR FRAMES**

**1,2mm Rebated frames suitable for half brick walls:**

3	Frame for door 813 x 2032mm high.	No	10		
---	-----------------------------------	----	----	--	--

**1,2mm Rebated frames suitable for one brick walls:**

4	Frame for door 813 x 2032mm high.	No	1		
---	-----------------------------------	----	---	--	--

Carried to Collection

R

Section No. 4  
 Bill No. 9  
 Metalwork

	Unit	Quantity	Rate	Amount
<b><u>STEEL WINDOWS, DOORS, ETC.</u></b>				
<b><u>Standard residential windows with 12 x 12(B33) solid burglar bars to all sashes:</u></b>				
5	No	1		
6	No	14		
7	No	3		
8	No	5		
9	No	1		
<b><u>STEEL STRONGROOM DOORS, VENTILATORS, ETC.</u></b>				
<b><u>Strongroom doors etc. suitable for 220mm walls fixed to brickwork or concrete</u></b>				
10	No	1		
11	No	1		
<b><u>ALUMINIUM DOORS AND WINDOWS, ETC</u></b>				
<b><u>Purpose made natural anodised aluminium windows glazed with 6mm thick laminated safety glass and plugged to brickwall or concrete</u></b>				
12	No	3		
13	No	1		
<b><u>Purpose made natural anodised aluminium doors glazed with 6mm thick laminated safety glass and plugged to brickwall or concrete</u></b>				
14	No	2		
<b><u>SECURITY BARRIERS</u></b>				
15	No	2		
Carried to Collection				
Section No. 4				
Bill No. 9				
Metalwork				
			R	

	Unit	Quantity	Rate	Amount
<b><u>STEEL LOUVRES,ETC</u></b>				
<b><u>Purpose made louvres:</u></b>				
16				
Triangular shaped (on elevation) residential section louvred ventilators 3138 wide (at the horizontal bottom) x 571mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No. 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed				
	No	2		
17				
Ditto but approximately 3700 x 1000mm high overall				
	No	2		
Carried to Collection				
Section No. 4			<b>R</b>	
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Metalwork				

**BILL NO. 9**  
**METALWORK**  
**COLLECTION**

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Section No. 4  
Bill No. 9  
Metalwork

Amount

Unit      Quantity      Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 10**

**PLASTERING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SCREEDS**

**Screeds on concrete:**

**Screeds of wood floated on concrete to receive ceramic tiles:**

1 30mm Thick on floors and landings.

m<sup>2</sup>      297

**GRANOLITHIC**

**Untinted wood floated granolithic on concrete**

2 30mm Thick on floors and landings.

m<sup>2</sup>      4

**INTERNAL PLASTER**

**Cement plaster on brickwork:**

3 On walls.

m<sup>2</sup>      658

4 On narrow widths.

m<sup>2</sup>      6

5 On concrete soffit.

m<sup>2</sup>      6

**CORNER PROTECTORS, DIVIDING STRIPS, ETC**

6 30 x 3mm Flat section brass dividing strips between different floor finishes.

m      7

Carried To Section Summary

**R**

Section No. 4  
Bill No. 10  
Plastering

Amount

Unit

Quantity

Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 11**

**TILING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**WALL TILING**

**200 x 200 x 10mm White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere):**

- |  | Unit           | Quantity |
|--|----------------|----------|
| 1 On walls in isolated panels, splashbacks, etc. | m <sup>2</sup> | 32       |
| 2 On narrow widths.                              | m <sup>2</sup> | 1        |

**FLOOR TILING**

**300 x 300 x 11.5mm ceramic floor tiles (Prime Cost amount R250.00/m2 excluding vat) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound**

- |  |                |     |
|--|----------------|-----|
| 3 On floors and landings.                                | m <sup>2</sup> | 297 |
| 4 Skirting formed of ceramic tile cut to 300 x 75mm high | m              | 211 |

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Section No. 4  
 Bill No. 11  
 Tiling

	Unit	Quantity	Rate	Amount
<p><b>SECTION NO. 4</b>  <b>Medium Administration Block</b>  <b>BILL NO. 12</b>  <b>PLUMBING AND DRAINAGE</b></p> <p><b>PREAMBLES</b>                      For preambles see "Specification of materials and methods to be used - PW371</p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p><b>Concrete pipes:</b>                      Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><b>uPVC pressure pipes and fittings:</b>                      Pipes for water supply shall be of the class stated.                      Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.                      Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p><b>Copper pipes:</b>                      Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><b>Fixing of pipes</b>                      Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level</p>				
<p>Section No. 4                      Bill No. 12                      Plumbing And Drainage</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<p><b><u>Reducing fittings:</u></b> Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><b><u>Wire gratings:</u></b> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p> <p><b><u>Septic tanks:</u></b> Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.</p> <p><b><u>Exposed concrete surfaces:</u></b> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p> <p><b><u>Excavations:</u></b> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. 'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><b><u>Laying, backfilling, bedding, etc of pipes:</u></b> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.</p> <p><b><u>Flush pans:</u></b> Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p>				
<p>Section No. 4 Bill No. 12 Plumbing And Drainage</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<b><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></b>				
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
<b><u>Waste unions:</u></b>				
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.				
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Approved .6mm galvanised sheet iron with "chromadek" finish ,in:</u></b>				
1	m	79		
2	No	12		
3	No	6		
4	No	12		
5	m	48		
6	No	12		
7	No	12		
<b><u>SANITARY FITTINGS</u></b>				
<b><u>'Citimetal' stainless steel or equal approved:</u></b>				
8	No	1		
<b><u>"Vaal" or equal approved</u></b>				
9	No	3		
10	No	2		
<b><u>WASTE UNIONS ETC</u></b>				
<b><u>'Cobra Watertech" or equal approved</u></b>				
11	No	1		
<b><u>TRAPS ETC</u></b>				
<b><u>"Marley' or equal approved</u></b>				
12	No	1		
Carried to Collection			R	
Section No. 4				
Bill No. 12				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<b><u>"Cobra Watertech" or equal approved</u></b>				
13	No	2		
<b><u>TAPS, VALVES, ETC</u></b>				
<b><u>'Cobra Watertech' or equal approved:</u></b>				
14	No	3		
15	No	6		
16	No	2		
17	No	1		
<b><u>SANITARY PLUMBING</u></b>				
<b><u>uPVC pipes:</u></b>				
18	m	60		
19	m	55		
20	m	25		
21	m	25		
<b><u>Extra over uPVC pipes for fittings:</u></b>				
22	No	10		
23	No	8		
24	No	6		
25	No	12		
26	No	6		
27	No	5		
28	No	2		
29	No	2		
<b><u>Sundries:</u></b>				
30	Item			
<b><u>WATER SUPPLIES</u></b>				
<b><u>Class 9 uPVC pressure pipes:</u></b>				
31	m	60		
			R	
Carried to Collection				
Section No. 4				
Bill No. 12				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<b><u>Extra over uPVC pressure pipes for solvent welded pressure fittings:</u></b>				
32	No	6		
33	No	4		
34	No	4		
<b><u>Class o copper pipes:</u></b>				
35	m	30		
36	m	40		
<b><u>Extra over class o copper pipes for capillary fittings:</u></b>				
37	No	20		
38	No	15		
<b><u>Copper overflow and service pipes:</u></b>				
39	No	1		
<b><u>Sundries:</u></b>				
40	No	1		
41	No	1		
<b><u>ELECTRICAL WATER HEATERS</u></b>				
<b><u>"Kwikot"</u></b>				
42	No	1		
<b><u>Testing:</u></b>				
43	Item			
<b><u>FIRE APPLIANCES ETC.</u></b>				
<b><u>'Chubb':</u></b>				
44	No	1		
45	No	2		
Carried to Collection				
Section No. 4			<b>R</b>	
Bill No. 12				
Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
	<b><u>RAINWATER HARVESTING</u></b>				
	<b><u>Rainwater harvesting</u></b>				
46	Allow a sum of R15 000.00/each (Fifteen Thousand Rands) for provision of 5000l Jojo or equal approved tank complete with lid, fittings, tap, concrete plinth as per Architect details	No	2		
	Carried to Collection			R	
Section No. 4					
Bill No. 12					
Plumbing And Drainage					

**BILL NO. 12**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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Section No. 4  
Bill No. 12  
Plumbing And Drainage

Amount

Unit

Quantity

Rate

**SECTION NO. 4**

**Medium Administration Block**

**BILL NO. 13**

**GLAZING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**GLAZING TO STEEL WITH PUTTY**

**5mm Clear float glass:**

- 1 Panes exceeding 0,1m2 and not exceeding 0,5m2.

m<sup>2</sup>

43

**5mm Rough cast glass:**

- 2 Panes exceeding 0,1m2 and not exceeding 0,5m2.

m<sup>2</sup>

2

**TOPS, SHELVES, DOORS, MIRRORS, ETC.**

**6mm Silvered float glass copper backed mirrors with polished edges fixed with double sided adhesive tape:**

- 3 Mirror 450 x 600 mm high.

No

3

Carried To Section Summary

**R**

Section No. 4

Bill No. 13

Glazing

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 4</b>				
<b>Medium Administration Block</b>				
<b>BILL NO. 14</b>				
<b>PAINTWORK</b>				
<b><u>PREAMBLES</u></b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b><u>ON FLOATED PLASTER</u></b>				
<b><u>Prepare , etc as specified and apply two coats of super acrylic paint:</u></b>				
1	m <sup>2</sup>	658		
<b><u>ON FIBRE-CEMENT, ETC.</u></b>				
<b><u>Prepare , etc as specified and apply two coats of super acrylic Pva paint:</u></b>				
2	m <sup>2</sup>	297		
3	m	172		
<b><u>ON METAL</u></b>				
<b><u>Prepare, etc as specified and apply two coats of gloss enamel paint on :</u></b>				
4	m <sup>2</sup>	16		
5	m <sup>2</sup>	74		
6	m <sup>2</sup>	21		
<b><u>Inside eaves gutter</u></b>				
7	m <sup>2</sup>	60		
<b><u>ON WOOD, WOOD BOARD</u></b>				
<b><u>Prepare,etc as specified and apply two coats of super acrylic Pva paint on:</u></b>				
8	m <sup>2</sup>	36		
<b><u>Prepare, etc as specified and apply two coats of polyurethane suede varnish:</u></b>				
9	m <sup>2</sup>	9		
10	m <sup>2</sup>	3		
Carried To Section Summary				
Section No. 4				
Bill No. 14				
Paintwork				
			<b>R</b>	

**SECTION NO. 4**

**Medium Administration Block**

**SECTION SUMMARY**

Bill No.		Page
1	FOUNDATIONS	103
2	CONCRETE, FORMWORK AND REINFORCEMENT	106
3	MASONRY	110
4	WATERPROOFING	111
5	ROOF COVERINGS	112
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12	PLUMBING AND DRAINAGE	132
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14	PAINTWORK	134

Carried to Final Summary

R

Section No. 4  
SECTION SUMMARY

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**



	Unit	Quantity	Rate	Amount
<b><u>Earth filling supplied by the Contractor and compacted to 95% Mod AASHTO density):</u></b>				
11				
	m <sup>3</sup>	11		
<b><u>Cart Away</u></b>				
<b><u>Extra over excavation for cart away:</u></b>				
12				
	m <sup>3</sup>	14		
<b><u>Coarse river sand filling supplied by the Contractor:</u></b>				
13				
	m <sup>3</sup>	6		
<b><u>COMPACTION</u></b>				
<b><u>Compaction of surfaces:</u></b>				
14				
	m <sup>2</sup>	26		
<b><u>Prescribed density tests on filling:</u></b>				
15				
	No	8		
<b><u>SOIL POISONING</u></b>				
<b><u>Soil insecticide:</u></b>				
16				
	m <sup>2</sup>	26		
17				
	m <sup>2</sup>	38		
Carried to Collection				
Section No. 5			R	
Bill No. 1				
Foundations				

**BILL NO. 1**  
**FOUNDATIONS**  
**COLLECTION**

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Carried To Section Summary

R

Section No. 5  
Bill No. 1  
Foundations

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 5</b>				
<b>5 x 4 Enviro loo Seats Toilet Block</b>				
<b>BILL NO. 2</b>				
<b>CONCRETE, FORMWORK AND REINFORCEMENT</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371"				
<b>UNREINFORCED CONCRETE</b>				
<b>15Mpa/19mm Concrete</b>				
1	m <sup>3</sup>	2		
2	m <sup>3</sup>	1		
3	m	29		
<b>REINFORCED CONCRETE</b>				
<b>25 MPa/19mm Concrete:</b>				
4	m <sup>3</sup>	2		
5	m <sup>3</sup>	7		
6	m <sup>3</sup>	2		
<b>TEST BLOCKS</b>				
<b>Test blocks:</b>				
7	Sets	5		
<b>FINISHING TOP SURFACE OF CONCRETE</b>				
8	m <sup>2</sup>	17		
9	m <sup>2</sup>	2		
<b>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP Work Group No 111)</b>				
<b>Rough Formwork to Sides:</b>				
10	m	6		
11	m <sup>2</sup>	9		
Carried to Collection				
Section No. 5			<b>R</b>	
Bill No. 2				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
<b><u>MOVEMENT JOINTS ETC</u></b>				
<b><u>Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed:</u></b>				
12	m	6		
<b><u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u></b>				
13	m	6		
<b><u>Dividing Strips ,etc</u></b>				
14	m	2		
<b><u>REINFORCEMENT(PROVISIONAL)</u></b>				
<b><u>Fabric reinforcement:</u></b>				
15	m <sup>2</sup>	26		
<b><u>Mild steel reinforcement to structural concrete work:</u></b>				
16	Tonnes	1		
<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
17	Tonnes	1		
18	Tonnes	1		
Carried to Collection				
Section No. 5				
Bill No. 2				
Concrete, Formwork And Reinforcement				
			<b>R</b>	

**BILL NO. 2**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

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Carried To Section Summary

R

Section No. 5  
Bill No. 2  
Concrete, Formwork And Reinforcement

Amount

Unit      Quantity      Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 3**

**MASONRY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371"

**BRICKWORK**

**Sizes in descriptions:**

Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.

**Face bricks:**

Bricks shall be ordered timeously to obtain uniformity in size and colour.

**Pointing:**

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.

**SAMPLES**

Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.

**BRICKWORK IN FOUNDATIONS (PROVISIONAL)**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

1	Half brick walls	m <sup>2</sup>	11
2	One brick walls	m <sup>2</sup>	11

**BRICKWORK IN SUPERSTRUCTURE**

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

3	Half brick walls	m <sup>2</sup>	18
4	Half brick walls in beam filling.	m <sup>2</sup>	2
5	One brick walls	m <sup>2</sup>	69

Carried to Collection

R

Section No. 5  
Bill No. 3  
Masonry

	Unit	Quantity	Rate	Amount
<b><u>BRICKWORK SUNDRIES</u></b>				
<b><u>Brickwork reinforcement:</u></b>				
6	m	64		
7	m	194		
<b><u>Turning pieces:</u></b>				
8	m	5		
9	m	2		
<b><u>Galvanised wire ties etc:</u></b>				
10	No	24		
<b><u>Galvanised hoop iron cramps, ties, etc:</u></b>				
11	No	24		
<b><u>FACE BRICKWORK</u></b>				
<b><u>Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:</u></b>				
12	m <sup>2</sup>	79		
13	m <sup>2</sup>	6		
14	m <sup>2</sup>	2		
15	m <sup>2</sup>	5		
<b><u>FACE BRICKWORK COPINGS, SILLS, ETC.</u></b>				
<b><u>Brick-on-edge header course copings, sills, etc of face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces:</u></b>				
16	m	2		
17	m	5		
18	m	16		
Carried to Collection				
Section No. 5			R	
Bill No. 3				
Masonry				

		Unit	Quantity	Rate	Amount
19	<p><b><u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u></b>  <b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u></b>                      12 x 152mm Wide sills set flat and slightly projecting.</p>	m	4		
Section No. 5 Bill No. 3 Masonry	Carried to Collection			R	<hr/> <hr/>

**BILL NO. 3**  
**MASONRY**  
**COLLECTION**

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Carried To Section Summary

R

Section No. 5  
Bill No. 3  
Masonry

Amount

Unit      Quantity      Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 4**

**WATERPROOFING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**DAMPPROOFING OF WALLS AND FLOORS**

**One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:**

1	In walls.	m <sup>2</sup>	10		
---	-----------	----------------	----	--	--

**One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:**

2	Under surface beds.	m <sup>2</sup>	16		
---	---------------------	----------------	----	--	--

**JOINT SEALANTS ETC**

**silicone sealing compound including backing cord, bond breaker, primer, etc**

3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional)	m	38		
---	--	---	----	--	--

4	12 x 20mm in vertical expansion joints in walls including raking out expansion joint filler as necessary	m	48		
---	--	---	----	--	--

Carried To Section Summary

**R**

Section No. 5  
 Bill No. 4  
 Waterproofing

Amount

Unit

Quantity

Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 5**

**ROOF COVERINGS**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW 371

**General**

**PROFILED METAL SHEETING AND ACCESSORIES**

.5mm "Klip-lok light industrial" galvanised troughed sheet steel with "chromadek" finish one side, fixed to 76 x 50mm purlin complete under 5year quarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer

1 Roof covering with pitch not exceeding 25 degrees.

m<sup>2</sup>

20

.8mm galvanised sheet iron, with "chromadek" one side in:

2 Standard type FK3 ridge or hip flashing

m

8

Carried To Section Summary

**R**

Section No. 5

Bill No. 5

Roof Coverings

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 5</u></b></p>				
<p><b><u>5 x 4 Enviro loo Seats Toilet Block</u></b></p>				
<p><b><u>BILL NO. 6</u></b></p>				
<p><b><u>CARPENTRY AND JOINERY</u></b></p>				
<p><b><u>PREAMBLES</u></b></p>				
<p>For preambles see "Specification of materials and methods to be used - PW371</p>				
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>				
<p><b><u>Particle board:</u></b></p>				
<p>Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.</p>				
<p><b><u>Joinery:</u></b></p>				
<p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p>				
<p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p>				
<p><b><u>Fixing:</u></b></p>				
<p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p>				
<p><b><u>Decorative laminate finish:</u></b></p>				
<p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.</p>				
<p><b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b></p>				
<p><b><u>Plate nailed timber roof truss construction:</u></b></p>				
<p>The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantee that the trusses are designed, manufactured,and erected, to support the roof coverings specified. The quarantee shall be valid for 10(ten) years .</p>				
<p>Section No. 5 Bill No. 6 Carpentry And Joinery</p>				
<p>Carried to Collection</p>				
<p>R</p>				

	Unit	Quantity	Rate	Amount
<b><u>Sawn softwood:</u></b>				
1				
Roof construction to double pitched roof with two gable ends approximately 16m <sup>2</sup> on plan overall including trusses, rafters, purlins, permanent bracing, etc (measured flat).				
	No	1		
<b><u>ROOF CONSTRUCTION</u></b>				
<b><u>Sawn softwood :</u></b>				
2	m	4		
114 x 38mm Wall plates.				
3	m	5		
114 x 38mm rafters exceeding 2.4m and not exceeding 3.9m.				
4	m	16		
50 x 76mm purlins.				
<b><u>ROOF SUNDRIES</u></b>				
<b><u>Sundries:</u></b>				
5	m <sup>2</sup>	6		
Two coats creosote on sawn timbers.				
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Everite FC77 or equal approved pressed fibre-cement:</u></b>				
6	m	20		
10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.				
<b><u>Wrought meranti doors:</u></b>				
<b><u>Wrought meranti doors hung to steel frames:</u></b>				
7	No	2		
44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles ,16 x 150mm middle ledge and braces and 22 x 220mm bottom rail, filled in with 22mmV-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round.				
<b><u>Semi-solid flush doors</u></b>				
8	No	4		
40mm semi-solid flush doors with 3.2mm standard hardboard covering on both sides hung to steel frames:				
			R	

Carried to Collection

Section No. 5  
 Bill No. 6  
 Carpentry And Joinery

**BILL NO. 6**  
**CARPENTRY AND JOINERY**  
**COLLECTION**

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Carried To Section Summary

R

Section No. 5  
Bill No. 6  
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 5</b>				
<b>5 x 4 Enviro loo Seats Toilet Block</b>				
<b>BILL NO. 7</b>				
<b>CEILINGS PARTITIONS AND ACCESS FLOORING</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b>SUPPLEMENTARY PREAMBLES</b>				
<b>Descriptions:</b>				
Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.				
Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.				
<b>INSULATION</b>				
<b>Aerolite insulation:</b>				
1		100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m <sup>2</sup>	16
<b>Wrought softwood</b>				
2		19 x 76mm cornices nailed	m	16
<b>NAILED UP AND SCREW UP CEILINGS</b>				
<b>6mm Everite Nutec or equal approved fibre-cement boards with H-type steel cover strips over joints:</b>				
3		Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m <sup>2</sup>	16
4		Extra over ceiling for hinged trap door size 610 x 610mm	No	1
Carried To Section Summary				
Section No. 5				
Bill No. 7				
Ceilings Partitions And Access Flooring				
			<b>R</b>	

Amount

Unit      Quantity      Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 8**

**IRONMONGERY**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SUPPLEMENTARY PREAMBLES**

**Finishes to ironmongery:**

Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.

**CATCHES, CABIN HOOKS, ETC**

**Solid or equal approved:**

- 1 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.

No      2

**LOCKS**

**Solid or equal approved:**

- 2 "Code 630" padlock.

No      2

**'Solid" or equal approved**

- 3 CZ682-24-95SC"Gower" two lever lockset.

No      4

- 4 CZ682-24-95SC"Gower" three lever lockset.

No      2

**SUNDRIES**

**Solid or equal approved:**

- 5 38mm Diameter rubber door stop plugged.

No      6

**Lockable toilet roll holder**

- 6 Vandal proof lockable toilet roll holder plugged

No      4

Carried To Section Summary

R

Section No. 5  
Bill No. 8  
Ironmongery

Amount

Unit      Quantity      Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 9**

**METALWORK**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SUPPLEMENTARY PREAMBLES**

**Descriptions:**

Descriptions of bolts shall be deemed to include nuts and washers.

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.

Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.

**WELDED SCREENS, GATES, ETC.**

**Gates to external doors**

- 1 Single gate and frame 813 x 2032mm high of 25 x 25x 2mm hollow section frame and 25 x 25x 2mm hollow section horizontal middle rail filled in with 12 x 12mm square section vertical rails at 75mm centres and fitted with a pair of suitable hinges welded to frame and with locking mechanism for padlock all in and including outer frame of 25 x 25 x 2mm hollow section welded frame bolted to brickwork.

No      2

**PRESSED STEEL DOOR FRAMES**

**1,2mm Rebated frames suitable for half brick walls:**

- 2 Frame for door 813 x 2032mm high.

No      4

**1,2mm Rebated frames suitable for one brick walls:**

- 3 Frame for door 813 x 2032mm high

No      2

**STEEL WINDOWS, DOORS, ETC.**

**Standard residential windows with 12 x 12(B33) solid burglar bars to all sashes:**

- 4 Window type NE1, 533 x 654mm high

No      4

Carried to Collection

R

Section No. 5  
Bill No. 9  
Metalwork

Amount

Unit

Quantity

Rate

**STEEL LOUVRES,ETC**

**Purpose made louvres:**

- 5 Triangular shaped (on elevation) residential section louvred ventilators 3138 wide (at the horizontal bottom) x 571mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No. 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed

No

2

Carried to Collection

R

Section No. 5

Bill No. 9

Metalwork

**BILL NO. 9**  
**METALWORK**  
**COLLECTION**

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Carried To Section Summary

R

Section No. 5  
Bill No. 9  
Metalwork

Amount

Unit

Quantity

Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 10**

**PLASTERING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**SCREEDS**

**Screeds on concrete:**

**Screeds of wood floated on concrete to receive ceramic tiles:**

1 30mm Thick on floors to receive ceramic tiling.

m<sup>2</sup>

16

Carried To Section Summary

**R**

Section No. 5

Bill No. 10

Plastering

Amount

Unit

Quantity

Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 11**

**TILING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**FLOOR TILING**

**300 x 300 x 11.5mm ceramic floor tiles (Prime Cost amount R250.00/m2 delivered excluding vat) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound**

1	On floors and landings.	m <sup>2</sup>	16		
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	16		

Carried To Section Summary

**R**

Section No. 5

Bill No. 11

Tiling

	Unit	Quantity	Rate	Amount
<p><b>SECTION NO. 5</b>  <b>5 x 4 Enviro loo Seats Toilet Block</b>  <b>BILL NO. 12</b>  <b>PLUMBING AND DRAINAGE</b></p> <p><b>PREAMBLES</b>                      For preambles see "Specification of materials and methods to be used - PW371</p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p><b>Concrete pipes:</b>                      Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><b>uPVC pressure pipes and fittings:</b>                      Pipes for water supply shall be of the class stated.                      Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.                      Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p><b>Copper pipes:</b>                      Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><b>Fixing of pipes</b>                      Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level</p>				
<p>Section No. 5                      Bill No. 12                      Plumbing And Drainage</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<p><b><u>Reducing fittings:</u></b> Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><b><u>Wire gratings:</u></b> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p> <p><b><u>Septic tanks:</u></b> Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.</p> <p><b><u>Exposed concrete surfaces:</u></b> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.</p> <p><b><u>Excavations:</u></b> No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling. 'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><b><u>Laying, backfilling, bedding, etc of pipes:</u></b> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.</p> <p><b><u>Flush pans:</u></b> Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p>				
<p>Section No. 5 Bill No. 12 Plumbing And Drainage</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<b><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></b>				
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
<b><u>Waste unions:</u></b>				
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.				
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Approved .6mm galvanised sheet iron with "chromadek" finish ,in:</u></b>				
1	m	16		
2	No	4		
3	No	4		
4	No	4		
5	m	16		
6	No	4		
7	No	4		
<b><u>Sanitary fittings</u></b>				
<b><u>Vaal or equal approved:</u></b>				
8	No	2		
9	No	2		
10	Item			
11	Item			
<b><u>Enviro-loo set:</u></b>				
12	Sets	4		
13	Item			5 000 00
<b><u>FIRE APPLIANCES ETC.</u></b>				
<b><u>'Chubb' or equal approved:</u></b>				
14	No	2		
Carried to Collection			R	
Section No. 5				
Bill No. 12				
Plumbing And Drainage				

**BILL NO. 12**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

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Carried To Section Summary

**R**

Section No. 5  
Bill No. 12  
Plumbing And Drainage

Amount

Unit

Quantity

Rate

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**BILL NO. 13**

**GLAZING**

**PREAMBLES**

For preambles see "Specification of materials and methods to be used - PW371

**GLAZING TO STEEL WITH PUTTY**

**5mm obscure glass:**

1 Panes not exceeding 0,1m2.

m<sup>2</sup>

4

Carried To Section Summary

**R**

Section No. 5

Bill No. 13

Glazing

	Unit	Quantity	Rate	Amount
<b>SECTION NO. 5</b>				
<b>5 x 4 Enviro loo Seats Toilet Block</b>				
<b>BILL NO. 14</b>				
<b>PAINTWORK</b>				
<b>PREAMBLES</b>				
For preambles see "Specification of materials and methods to be used - PW371				
<b>ON FIBRE-CEMENT, ETC.</b>				
<b>Prepare , etc as specified and apply two coats of super acrylic Pva paint:</b>				
1	m <sup>2</sup>	16		
2	m	16		
<b>ON METAL</b>				
<b>Prepare, etc as specified and apply two coats of gloss enamel paint on :</b>				
3	m <sup>2</sup>	9		
4	m <sup>2</sup>	4		
5	m <sup>2</sup>	7		
<b>Inside eaves gutter</b>				
6	m <sup>2</sup>	6		
<b>Prepare,etc as specified and apply two coats of super acrylic Pva paint on:</b>				
7	m <sup>2</sup>	13		
<b>ON WOOD, WOOD BOARD</b>				
<b>Prepare, etc as specified and apply two coats of polyurethane suede varnish:</b>				
8	m <sup>2</sup>	7		
Carried To Section Summary				
Section No. 5				
Bill No. 14				
Paintwork				
			<b>R</b>	

**SECTION NO. 5**

**5 x 4 Enviro loo Seats Toilet Block**

**SECTION SUMMARY**

Bill No.		Page
1	FOUNDATIONS	139
2	CONCRETE, FORMWORK AND REINFORCEMENT	142
3	MASONRY	146
4	WATERPROOFING	147
5	ROOF COVERINGS	148
6	CARPENTRY AND JOINERY	151
7	CEILINGS PARTITIONS AND ACCESS FLOORING	152
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Section Factor

x 5

Carried to Final Summary

**R**

Section No. 5  
SECTION SUMMARY

**SECTION NO. 6**

**Provisional Sum**

**SECTION NO. 6**

**Provisional Sum**

**NOTE: All provisional sums are nett**

**The Client reserves the right to omit any or all provisional sums allowed in his tender without claim for loss of profit by the Contractor**

**Flags, Flag Poles & Plaque**

1	Provide the amount of R30 000.00 (Thirty Thousand Rands) for flags and plaque by a specialist	Item	30 000 00
2	Profit on above item.	Item	
3	Attendance on ditto.	Item	

**Signage**

4	Provide the sum of R35 000.00 (Thirty Five Thousand Rands) for signage	Item	35 000 00
5	Profit	Item	
6	Attendance	Item	

**School furniture**

7	Provide the sum of R1 100 000.00 (One Million One Hundred Thousand Rands) for supply of school furniture	Item	1 100 000 00
8	Profit	Item	
9	Attendance	Item	

**Office equipments and furniture**

10	Provide the sum of R300 000.00 (Three Thousand Rands) for supply of Office equipments, furniture, first aid kit and sick bed in the administration block by specialist.	Item	300 000 00
11	Profit	Item	
12	Attendance	Item	

**Community liason officer**

13	Provide the budgetary allowance of R120 000.00 (One Hundred and Twenty Thousand Rands) for employment of a community liason officer for labour requirements by the contractor and deducted in whole or part if not required.	Item	120 000 00
14	Profit	Item	
15	Attendance	Item	

Carried To Section Summary

**R**

Section No. 6  
Bill No. 1  
Provisional Sums

**Joinery fittings**

- 16 Provide the sum of R300 000 (Three Thousand Rands) for joinery fittings by specialist
- 17 Profit
- 18 Attendance

Item 300 000 00  
Item  
Item

**Occupational Health and Safety Consultancy Services**

- 19 Provide the sum of R500 000.00 (Five Hundred Thousand Rands) for occupational health and safety services to be appointed by the Employer
- 20 Profit
- 21 Attendance

Item 500 000 00  
Item  
Item

Carried To Section Summary

R

Section No. 6  
Bill No. 1  
Provisional Sums

**SECTION NO. 6**  
**Provisional Sum**  
**SECTION SUMMARY**

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Carried to Final Summary

**R**

Section No. 6  
SECTION SUMMARY



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R

SubTotal excluding Value Added Tax

ADD VAT @ 15%:

Carried to Tender

R

FINAL SUMMARY

REPUBLIC OF SOUTH AFRICA  
LIMPOPO DEPARTMENT OF PUBLIC WORKS &  
INFRASTRUCTURE

CHITA KEKANA SECONDARY SCHOOL

LDPWRI-B/20216

**PART B**  
**ELECTRICAL INSTALLATIONS**  
**BILLS OF QUANTITIES**

Summary- Chita Kekana Sec School

BILL	DESCRIPTION	AMOUNT
1A and 1B	Preliminary and General and Transport	
2	Internal Installation	
3	PVC Sleeves for Electric Installation	
4	HVAC	
5	Prov Sum for Eskom Bulk Power Supply	
6	Prov Sum for CCTV	

CARRIED TO FINAL SUMMARY

New Rate Items:

Mark-up percentage on New Rate Items .....%. Labour cost shall be based on the bill of rates.

CONTRACTOR:

-----

SIGNATURE:

-----

DATE:

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CHITA KEKANA PS  
ELECTRICAL INSTALLATIONS

Internal Installations Bill- Chita Kekana Sec School

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
	BILL 2				
	CONDUIT WORK				
	Flush in walls, floors and concrete slabs against wooden and steel structures and walls in ceiling void, indoor and outdoor, chasing of floors and walls where necessary, etc.				
2	CONDUIT 20 mm dia PVC				
2.1	Material	m	6000		
2.2	Installation	m	6000		
	50 mm dia PVC				
2.3	Material	m	3000		
2.4	Installation	m	3000		
3	STEEL BOXES AND COVER PLATES Round conduit boxes				
3.1	Material	No	242		
3.2	Installation	No	242		
	Galvanized Steel 100 x 50 x 50 mm				
3.3	Material	No	114		
3.4	Installation	No	114		
	TOTAL CARRIED FORWARD				

CHITA KEKANA PS  
ELECTRICAL INSTALLATIONS

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
	TOTAL BROUGHT FORWARD				
4	CONDUCTORS				
	PVC Insulated copper conductors				
	1,5sq mm				
4.1	Material	m	0		
4.2	Installation	m	0		
	2,5sq mm				
4.3	Material	m	12000		
4.4	Installation	m	12000		
	4sq mm				
4.5	Material	m	6000		
4.6	Installation	m	6000		
	6sq mm				
4.7	Material	m	0		
4.8	Installation	m	0		
	TOTAL CARRIED FORWARD				

CHITA KEKANA PS  
ELECTRICAL INSTALLATIONS

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
	TOTAL BROUGHT FORWARD				
	Stranded Bare Copper Earth Wire				
	1.5sq mm				
4.9	Material	m	0		
4.10	Installation	m	0		
	2,5sq mm				
4.11	Material				
4.12	Installation	m	6000		
		m	6000		
	4,0sq mm				
4.13	Material	m	3000		
4.14	Installation	m	3000		
	Galvanized Draw wire				
	1,5sq mm				
4.15	Material	m	6000		
4.16	Installation	m	6000		
5	SWITCHES, SOCKET OUTLETS AND ISOLATORS FOR FLUSH INSTALLATION INCLUDING COVERPLATES				
	Switches				
	16 A Single Lever 1 way				
5.1	Material	No	94		
5.2	Installation	No	94		
	16A 1 Lever 2 way				
5.3	Material				
5.4	Installation				
	Socket Outlets with switch				
	16A 3 pin Double 100 x 100				
5.5	Material	No	92		
5.6	Installation	No	92		
	Isolators				
	20A 2 pole, 100 x 100				
5.6	Material	No	35		
5.7	Installation	No	35		
	40A 2 pole, 100 x 100				
5.8	Material	No	36		
5.9	Installation	No	36		
	TOTAL CARRIED FORWARD				

CHITA KEKANA PS  
ELECTRICAL INSTALLATIONS

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
	TOTAL BROUGHT FORWARD				
6	SQUARE TUBING POWER SKIRTING Supply and installation of power skirting complete with covers and end caps. Tenderers shall make provision for plugs, telephone points, computer points and isolators on the power skirting				
6.1	Material				
6.2	Installation				
7	PHOTOCELL / DAYLIGHT SWITCH Royce Thompson type or equal				
7.1	Material	No	9		
7.2	Installation	No	9		
8	BONDING OF DISTRIBUTION BOARDS TO WATER AND ROOF Installation	lot	9		
9	EARTHING AND LIGHTING PROTECTION				
9.1	Material	lot	9		
9.2	Installation	lot	9		
10	TESTS OF THE COMPLETE ELECTRICAL INSTALLATION AND ISSUING OF COC'S				
10.1	Installation	lot	9		
	Total for Bill 2 carried to summary sheet				

CHITA KEKANA PS  
ELECTRICAL INSTALLATIONS

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
	BILL 3				
11	LIGHT FITTINGS Tenderer shall include tubes or lamps and 5A unswitched plug in his tender rates. The light fittings shall be installed complete with lamps. Colour to be advised where not specified Light Fittings samples shall be submitted for approval before final order is made				
11.1	TYPE 1 - (Surface mounted LED Open Channel, IP20, fitted with 2 x 18W LED tubes, minimum 2320lm output per tube, colour temp 4000k)				
	Material	No	252		
	Installation	No	252		
11.2	TYPE 2 - IP65, vapour proof, open channel with 2 x 24W T8 LED tubes with lumen output of 1720lm per tube.				
	Material	No	0		
	Installation	No	0		
11.3	TYPE B1 - IP65 Wall and ceiling mounted mounted bulkhead complete with 1 x 30W LED bulb .				
	Material	No	78		
	Installation	No	78		
11.4	Type 3 - Open Channel complete with 2 x 24W T8 LED tubes .Each tube to have a lumen output of 2315lm.				
	Material	No	0		
	Installation	No	0		
Total for Bill 3 carried to summary sheet					

CHITA KEKANA PS  
ELECTRICAL INSTALLATIONS

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
	BILL 4				
12	DISTRIBUTION BOARDS AND KIOSKS				
	Site Kiosk. Refer to the Kiosk Schematics				
12.1	Material	No	1		
12.2	Installation, including Kiosk plinth	No	1		
	Block DBs, Refer to Schematics				
12.3	Material	No	9		
12.4	Installation	No	9		
	Telephone and Computer Distribution Board				
	500 x 500 x 250 mm surface type distribution board installed flush				
12.5	Material	No	1		
12.6	Installation	No	1		
	Telephone point	No			
12.7	Material	No	5		
12.8	Installation	No	5		
	Computer point				
12.9	Material	No	5		
12.10	Installation	No	5		
	Total for Bill 4 carried to summary sheet				

SUMMARY OF QUANTITIES

BILL	DESCRIPTION	Scheduled Value
2	Conduit Work	
3	Light Fittings	
4	Distribution Board	
	SUB TOTAL	

Site Reticulation Bill- Chita Kekana Sec School

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
	BILL 5				
13	LOW VOLTAGE CABLES				
	Low Voltage cables 600 to 1000 PVC insulated steel wire armoured underground cable				
	Cable in trenches, sleeves and building duct also in ceiling void if necessary				
	70 mm sq x 4 core				
13.1	Material	m	0		
13.2	Installation	m	0		
	50mm sq x 4 core				
13.3	Material	m	0		
13.4	Installation	m	0		
	25mm sq x 2 core				
13.5	Material	m	100		
13.6	Installation	m	100		
	16mm sq x 2 core				
13.7	Material	m	600		
13.8	Installation	m	600		
	10mm sq x 2 core				
13.9	Material	m	0		
13.10	Installation	m	0		
	TERMINATIONS				
	70mm sq x 4 core				
13.11	Material	No	0		
13.12	Installation	No	0		
	50mm sq x 4 core				
13.13	Material	No	0		
13.14	Installation	No	0		
	25mm sq x 2 core				
13.15	Material	No	2		
13.16	Installation	No	2		
	TOTAL CARRIED FORWARD				

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
TOTAL BROUGHT FORWARD					
	16mm sq x 4 core				
13.17	Material	No	20		
13.18	Installation	No	20		
	10mm sq x 3 core				
13.19	Material	No	0		
13.20	Installation	No	0		
14	COPPER EARTH WIRE				
	70mm sq				
14.1	Material	m	0		
14.2	Installation	m	0		
	25mm sq				
14.3	Material	m	100		
14.4	Installation	m	100		
	16mm sq				
14.5	Material	m	600		
14.6	Installation	m	600		
	10mm sq				
14.7	Material	m	0		
14.8	Installation	m	0		
	6mm sq				
14.9	Material	m	0		
14.10	Installation	m	0		
15	Yellow Cable Marker / Danger Tape				
15.1	Material	m	25		
15.2	Installation	m	25		
TOTAL CARRIED FORWARD TO SUMMARY					
SUMMARY OF QUANTITIES					

BILL	DESCRIPTION	Scheduled Value
5	LOW VOLTAGE CABLES	
SUB TOTAL		

Site Reticulation Bill- Chita Kekana Sec School

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
16	BILL 6 PVC SLEEVES FOR ELECTRIC AND COMMUNICATION  <u>PVC SLEEVES</u> <u>complete with bends</u> 100mm dim				
16.1	Material	m	0		
16.2	Installation  50mm dim	m	0		
16.3	Material	m	200		
16.4	Installation  Excavation	m	200		
16.5	Soft Rock and Earth	m3	100		
16.6	Hard Rock	m3	250		
16.7	Very Hard Rock  Sifted Soil Bedding and Cover	m3	0		
16.8	Material	m3	50		
16.9	Labour	m3	50		
17	Prepare As Built Drawings for all Layouts  As Built Drawings	lot	1		
18	Steel cover				
18.1	Material	No	4		
18.2	Labour	No	4		
19	Concrete Cable Markers				
19.1	Material	Lot	1		
19.2	Labour	Lot	1		
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	Qty	Rate	TOTAL
20	BILL 7 HVAC  HVAC: Supply, delivery, installation, commissioning and testing of a 2.4 kW cooling capacity high wall split units complete with insulated refrigerant piping, condensate drains, trunking, electric wiring and connection and controls (heat pump) , RECOMMENDED BRANDS are GREE , CARRIER , YORK AND LG  High-wall split units, 2.4 kW cooling capacity/ 9000 BTU (heat pump) unit.				
20.1	Material	No.	6		
20.2	Installation	No.	6		
	Refrigerant piping pair (liquid and gas)	m			
21	Material	m	100		
	Installation	m	100		
	Drain piping				
21.1	Material	m	100		
21.2	Installation	m	100		
23	Hand Dryers Hand drier (XLERATOR or equivalent) at toilets (1400W high speed air jet, motor speed of at least 20000 RPM)				
23.1					
23.2	Material	No	2		
	Installation	No	2		
TOTAL CARRIED FORWARD TO SUMMARY					

SUMMARY OF QUANTITIES

BILL	DESCRIPTION	Scheduled Value
6	PVC SLEEVES FOR ELECTRIC AND COMMUNICATION	
7	HVAC	
SUB TOTAL		

REPUBLIC OF SOUTH AFRICA  
LIMPOPO DEPARTMENT OF PUBLIC WORKS &  
INFRASTRUCTURE

CHITA KEKANA SECONDARY SCHOOL

LDPWRI-B/20216

PART C  
CIVIL WORKS  
BILLS OF QUANTITIES

CHITA KEKANA SS  
EARTHWORKS

Item	Payment Reference	Description	Unit	Qty	Rate	Amount
Alternative see 1200C 1200DM Alternative see 1200DB 1200DM	SABS 1200 D	<u>SCHEDULE NO. 1: EARTHWORKS.</u>				
		SITE CLEARANCE				
	8.3.1	Clear and grub area for Buildings	m <sup>2</sup>	3 461.50		
		PREPARATION AND STRIPPING OF SITE				
	8.3.1	Remove topsoil to a depth of 150mm and Stockpile on site within freehaul distance and maintain	m <sup>3</sup>	519.23		
		Spoil at designated spoil site	m <sup>3</sup>	207.69		
		EXCAVATION				
	8.3.2	<u>Excavate in all materials and use as fill, compacted to 90% mod AASHTO density for:</u>				
		Platforms	m <sup>3</sup>	623.07		
	8.3.2	Extra over item 8.3.2 (a) for Intermediate excavation	m <sup>3</sup>	186.92		
		Hard rock excavation	m <sup>3</sup>	124.61		
		Boulder excavation class A	m <sup>3</sup>	12.46		
		Boulder excavation class B	m <sup>3</sup>	12.46		
		COMMERCIAL MATERIAL				
8.3.4	Extra over item 8.3.2 (a) for importation of materials from: Commercial sources selected by the Contractor	m <sup>3</sup>	415.38			
TOTAL CARRIED FORWARD						

Item	Payment Reference	Description	Unit	Qty	Rate	Amount
ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		TOTAL BROUGHT FORWARD				
		<u>DESIGNATED BORROW PIT (ARRANGED BY EMPLOYER)</u>				
8.3.4		Extra over item 8.3.2 (a) for importation of materials from Designated borrow pits	m <sup>3</sup>	2 076.90		
8.3.4		Opening up and closing down of designated borrow pit	sum	1.00		
		OVERHAUL				
8.3.6		Overhaul (Provisional)				
		Limited overhaul	m <sup>3</sup>	623.07		
		Long overhaul	m <sup>3</sup> .km	415.38		
		COMPACTION OF BACKFILLING				
8.3.9		Selected material compacted to 93% mod AASHTO density	m <sup>3</sup>	2 492.28		
		Mod AASHTO Tests	No.	50.00		
Carried forward to Summary of Schedules						

CHITA KEKANA SS  
ROAD WORKS

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		SCHEDULE 2: EARTHWORKS (ROADS AND SUBGRADE)				
1	SANS	EARTHWORKS				
1.2		TREATMENT OF ROAD-BED				
1.2.1	8.3.3(a)	Road-bed preparation and compaction of material compacted to 93% MOD AASHTO maximum density	m <sup>3</sup>	205.01		
1.2.2	8.3.3(b)	In-place treatment of road-bed in intermediate or hard material				
		Ripping	m <sup>3</sup>	41.00		
1.3		EARTHWORKS				
1.3.1	8.3.4	Cut to fill				
		Compact to 90 % mod. AASHTO maximum density	m <sup>3</sup>	102.50		
		Selected layer compacted to 93 % mod. AASHTO maximum density	m <sup>3</sup>	102.50		
1.3.2	8.3.6	Extra-over items 1.3.1 inclusive for excavating and breaking down material in:				
		Intermediate excavation	m <sup>3</sup>	20.50		
		Hard excavation	m <sup>3</sup>	10.25		
1.3.3	8.3.7	Cut to spoil from				
		Soft excavation	m <sup>3</sup>	205.01		
		Intermediate excavation	m <sup>3</sup>	41.00		
		Hard excavation	m <sup>3</sup>	6.15		
1.3.4	8.3.8	Removal of oversize material	m <sup>3</sup>	3.08		
TOTAL CARRIED FORWARD						

## SECTION 1 : EARTHWORKS (ROADS AND SUBGRADE)

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
1.4	SABS 1200 DM	SUNDRIES				
	8.3.10	Materials bladed to windrow	m <sup>3</sup>	0.00		
	8.3.11	Extra-over items 8.3.7 and 8.3.8 for temporary stockpiling of material	m <sup>3</sup>	30.00		
		Construction of storm water berm along the designated areas by engineer	m <sup>3</sup>	0.00		
1.5	SABS 1200 ME	SECTION : SUBBASE				
	8.3.1	Construct gravel wearing course with material from borrow pits in all materials 150mm to main carriageways	m <sup>3</sup>	205.01		
	8.3.4	Extra over items . 1 to .2 inclusive for class of excavation				
		Intermediate excavation	m <sup>3</sup>	41.00		
		Hard rock excavation	m <sup>3</sup>	30.75		
1.6	SANS 1200 MFL	BASE				
	8.3.1	Construct base with material from borrow pit				
		Stabilized base using material from borrow 150mm to 95% mod AASHTO	m <sup>3</sup>	205.01		
1.7	8.3.4	Stabilizing Agent				
		(b) Portland Cement	m <sup>3</sup>	6.15		
1.8	SANS 1200 MJ	SEGMENTED BLOCK PAVING TO THE ACCESS ROAD				
	8.2.2	80mm Type S-A 35mPa for roadway (Grey Colouring)	m <sup>2</sup>	0.00		
	8.2.2	60mm Type S-A 35mPa for roadway (Grey Colouring)	m <sup>2</sup>	1 366.73		
	8.2.1	The construction of edge restraints	m	60.74		
TOTAL CARRIED FORWARD						

## SECTION 1 : EARTHWORKS (ROADS AND SUBGRADE)

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
1.8	SANS 1200 MK	KERBING AND CHANNELLING				
	8.2.2	Supply, bed, lav. & joint concrete sections:				
1.8.1		400X200 Concrete edge strip (Class 20/19 Concrete Strength).				
		a) 1m Length on straight	m	160.00		
		b) 330mm Length on curves	m	20.00		
1.8.2		300X150 Barrier Kerb (SABS 927 Fig 3).	m	305.00		
1.8.3		Mountable Kerb (SABS 927 Fig 3).	m	61.00		
9	1200 DK	SUBSOIL DRAINS				
9.1	1200 DK 8.2	Supply and install A4 Bidim Geosynthetic materials to the subsoil drains, as per drawings.	m <sup>2</sup>	40.00		
9.2	1200 DK 8.2	Supply and install 110mm Class 6 HDPE perforated pipe to the subsoil drains outlet, as per drawings.	m	50.00		
9.3	1200 DK 8.2	Supply and install 1,5mm smooth HDPE Geomembrane as the liner to the channel, as per drawings.	m <sup>2</sup>	44.00		
9.4	1200 DK 8.2	Supply and install A7 Bidim Geosynthetic protection layer to channel liner, as per drawings.	m <sup>2</sup>	60.00		
9.5	SANS 1200 AH	CONCRETE				
9.5.1	8.4.3	Supply, place and shape 25MPa concrete in hyson cells on the A10 Bidim Geosynthetic protection layer, as per drawings.	m <sup>3</sup>	50.03		
9.5.2	8.4.3	Supply, place and shape 25MPa concrete in hyson cells in the leachate outlet channel, as per drawings.	m <sup>3</sup>	12.51		
TOTAL CARRIED FORWARD						

## SECTION 1 : EARTHWORKS (ROADS AND SUBGRADE)

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TOTAL BROUGHT FORWARD				
10		STORMWATER MANAGEMENT				
	SANS	EARTHWORKS				
10.1		EXCAVATIONS				
10.1.1	1200 D 8.3.2	Excavate and prepare all cut off trenches and berms around the site as shown on the drawings and as directed by the Engineer.	m <sup>3</sup>	7.50		
10.1.2		Disposal of unsuitable or surplus material off site	m <sup>3</sup>	2.25		
10.2	SANS 1200 G	Concrete				
10.2.1	8.4.1	Mass concrete backfilling to replace unsuitable material, prescribed mix, Grade 10MPa/20 mm	m <sup>3</sup>	2.25		
10.2.2	8.4.2	Blinding layer, 50 mm minimum, prescribed mix, Grade 15MPa/20 mm	m <sup>2</sup>	2.50		
10.2.3	8.4.3	Strength concrete Grade 25 MPa/20 mm for:				
10.3		Concrete Channels	m <sup>3</sup>	11.25		
10.3.1	8.1.1	Formwork				
10.3.2	8.2.5	Rough, vertical, circular, maximum height 300 mm.	m	90.00		
10.3.3	8.2.5	Smooth, circular, vertical, 175 mm high to outer edge of base footing, (including forming of drainage lips with 110 mm dia drips)	m	20.00		
10.3.4	PSA8-11	Forming of drainage lips with 110 mm dia drips as per detail, Drawing	No	4.00		
10.3.5	8.4.4	Unformed surface finishes				
10.3.6		Steel float finish	m <sup>2</sup>	50.00		
TOTAL CARRIED TO SUMMARY						

CHITA KEKANA SS  
FENCING

Item No.	Payment Refers	Description	Unit	Qty	Rate	Amount
2	SABS 1200A	SCHEDULE 2 - STEEL PALISADE FENCING				
2.1	PCC-4.1	Steel palisade fencingn 2,4m high according to specification including excavations, foundation concreting, posts, pales and ground beams. All as per drawing.	m	810.00		
2.2	PCC-4.1	Supply and install according to specification a 6m wide vehicular gate	No	1.00		
2.3	PCC-4.1	Supply and install according to specification 1.5m wide pedestrian gate as per drawing	No	1.00		
2.4	PCC-4.1	Repainting of the existing fence	m <sup>2</sup>	0.00		
SUB - TOTAL CARRIED TO SUMMARY						

CHITA KEKANASS  
Water supplies

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Qty	RATE	AMOUNT
		SCHEDULE 4 : WATER SUPPLY PIPELINES AND WATER SOURCE				
	SABS 1200DB	EARTHWORKS : PIPE TRENCHES				
3.1		SITE CLEARANCE				
3.1.1	8.3.1(a)	Clear 2m wide vegetation and trees of girth up to 1m	m	445.00		
3.1.2	8.3.1(b)	Remove trees over 1 m and up to 2 m girth	No.	0.00		
3.2	PSDB12	EXCAVATION				
3.2.1		Excavate in all materials for trenches for pipes with a diameter between 20 mm and 100 mm, backfill compact and dispose of surplus/unsuitable material				
		Up to 1.5m in depth	m <sup>3</sup>	445.00		
3.2.1.1	8.3.2(b)	Extra-over item 3.2.1 incl. for excavation (provisional) in :				
		a) Intermediate material	m <sup>3</sup>	89.00		
		b) Hard rock material	m <sup>3</sup>	66.75		
3.2.1.2		Extra over Item 3.2.1				
		a) Backfill and compact by means of labour intensive construction methods in layers of 200mm compacted to 90% mod AASHTO	m <sup>3</sup>	445.00		
3.2.2		EXCAVATION ANCILLARIES				
3.2.2.1	8.3.3.1(a)	Imported backfill materials from designated borrow pits (Only if approved by Engineer)	m <sup>3</sup>	155.75		
3.2.2.2	8.3.3.2	Opening up and closing down of designated borrow pit	P.Sum	1.00		
3.2.2.3	8.3.3.3	Compaction in road reserves	m <sup>3</sup>	0.00		
3.2.2.4	8.3.3.4	Overhaul :				
		a) Short haul	m <sup>3</sup>	-		
		b) Truck haul	m <sup>3</sup> /km	-		
3.2.4	SABS1200LB	PROVISION OF BEDDING (PIPES)				
3.2.4.1	8.2.1	Provision of bedding material from trench excavations				
		a) Selected granular material	m <sup>3</sup>	66.75		
		b) Selected fill material	m <sup>3</sup>	155.75		
3.2.4.2		Provision of bedding material by importation from other necessary excavations (freehaul within the village boundaries)				
		a) Selected granular material	m <sup>3</sup>	80.10		
		b) Selected fill material	m <sup>3</sup>	186.90		
TOTAL CARRIED FORWARD						

## SECTION 3: WATER SUPPLY PIPELINES AND WATER SOURCE

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	Qty	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.4.4	8.2.3	Concrete bedding	m <sup>3</sup>	5.00		
3.2.4.5	8.2.4	Encasina of pipes in Class 19/20 concrete	m <sup>3</sup>	5.00		
3.2.4.6	8.2.5	Overhaul of material for bedding cradle and selected fill blanket	m <sup>3</sup> km	0.00		
3.2.5	1200L	PIPEWORK				
	8.2.1	Supply, lay, joint, bed, test and disinfect the following pipes complete with couplings and fittings to the relevant SABS standards including short lengths (all uPVC pipes to comply with DWS1160)				
3.2.5.1		uPVC pipes				
		a) 75 Class 12	m	-		
		b) 75 Class 9	m	-		
3.2.5.2		HDPE pipes Type IV				
		a) 20 mm class 6	m	40.00		
		b) 50 mm class 6	m	385.00		
		c) 75 mm class 10	m	20.00		
3.2.5.3		GMS pipes (medium duty)				
		a) 15 mm Ø	m	-		
		b) 20 mm Ø	m	-		
		c) 25 mm Ø	m	-		
3.2.6		VALVES				
3.2.6.1		Line valve assemblies.				
		Extra over item F.6 for supplying, installing, bedding and testing line valve assemblies as per Drawing complete cutting of pipes and couplings included (all valves to comply with DWS 2510)				
		a) 50 mm	No.	4.00		
		b) 75 mm	No.	0.00		
3.2.6.2		Scour valve assemblies				
		Extra over item F.6 for supplying, installing, bedding and testing scour valve assemblies as per Drawing complete. Scour tee, cutting of pipes and couplings included.				
		a) On 50 mm dia main	No.	5.00		
3.2.6.3		Ditto for 40 Ø and smaller pipes as detailed in Drawing for the following diameters				
		a) 25 Ø	No.	-		
		b) 32 Ø	No.	-		
		c) 40 Ø	No.	-		
3.2.6.4		Air valve assemblies				
		Extra over item D.6 for supplying, installing and testing air valve assemblies as per Drawing complete				
		a) On 50 mm and 64 mm Ø main	No.	1.00		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.10		FITTINGS FOR HDPE PIPES				
3.2.11		SUNDRIES				
3.2.11.3		Thrust blocks as per typical details on specification Drawing				
		a) Concrete Class 15/19	m <sup>3</sup>	1.00		
		b) Rough formwork	m <sup>2</sup>	1.00		
3.2.14		BOREHOLE DEVELOPMENT - (PROVISIONAL)				
		Geohydrological Services				
		Siting of drilling sites. Allowance to be made for desk study, site assessment, drilling supervision, testing supervision, and reporting.	No	1.00		
		Borehole Drilling				
		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to include inter-borehole moves and de-establishment from site of the drilling batch.	No	1.00		
		Drilling				
		Drilling of 165mm diameter borehole in non-collapsible material.	m	100.00		
		Odex drilling in collapsible material and where ordered by the Geohydrologist of 254mm diameter borehole. Rate to include supply, delivery and installation of at least 6mm sidewall Odex casing.	No	120.00		
		Steel casing (plain), 165 mm (state wall thickness here as 3 mm)	m	35.00		
		Steel casing (slotted), 165 mm (state wall thickness here as 4 mm)	m	0.00		
		Pump testing of borehole.				
		Rate to include the following: installation of pump testing equipment and remove after, calibration testing, 24hr constant testing, recovery measurements, data recording and reporting.	No	1.00		
		Sampling for water quality testing	No	1.00		
		Site finishing				
		Borehole finishing, rate to include borehole disinfection, concrete collar in Grade 20Mpa concrete, normal sanitary seal, borehole making, Reporting	No	1.00		
		Complete Geohydrology report signed by a registered personnel	No	1.00		
3.2.15		BOREHOLE REHABILITATION - (PROVISIONAL)				
		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to include inter-borehole moves and de-establishment from site	No	1.00		
		Removal of existing pumphouse	No	1.00		
		Removal of existing pump	No	1.00		
		Positive displacement pump				
		Removal using cable-tool (lumper) drilling rig of columns installations diameter, 25mm-100mm upto 120m. Rate to include all pipe work and fittings	No	1.00		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.16		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to including inter-borehole moves and de-establishment from Site. of the given drilling batch	No	1.00		
		Pump testing of borehole.				
		Rate to include the following: installation of pump testing equipment and remove after, calibration testing. 24hr constant testing. recovery measurements. data recording and reporting.	No	1.00		
		Sampling for water quality testing	No	1.00		
		<b>BOREHOLE PUMPS AND APPURTENANCES</b>				
		<b>NEW BOREHOLE INSTALLATION</b>				
		Supply and commissioning and testing of New Borehole complete with electric wiring and connection and controls. All units are to be made good and neat in accordance to manufactures and Engineers' specification.				
		Submersible pumpsets and fittings				
		Supply and install new submersible pump - Grundfos or similar Quality. All internals of wet-end shall be 316 stainless steel/brass. Electrical motor will be 316 stainless steel. Complete with corrosion protection.				
		Engineer to approve prior to installation.				
		Pump Installation, Head & Flow per borehole test report	No	1.00		
		Electric Motor installation, as per pump size requirements determined in item above.	No	1.00		
		Pump Protection				
		Mechanical pressure switch, PN16, Complete with cabling to panel : Limits between 160m and 80m. WIKA PSM-550 or Equivalent	No	1.00		
	Mechanical flow switch, PN16, Complete with cabling to panel	No	1.00			
	Float Switch for Switching off Pump on Low Level, c/w wiring to panel's liquid level control relay.	No	1.00			
	Electric Motor Control Panel					
	Supply and install control panel with all fittings required to operate pumps and motors efficiently, including 0-20 second delay timer and 0-24 hour timer.	No	1.00			
	Pipework					
	Supply and install borehole discharge pipework complete with flow meter, non return and pressure valves on the following pipework.					
	Submersed pipe: Ø63mmHDPE, Class 12, 7,1mm Wall thickness, SANS 4427, Borehole to Surface	m	110.00			
	Metal Base plate - Double choke	No.	1.00			
	65 NB Schedule 40 pipe discharge Galvanised Steel pipe, Incl Elbows and fittings	m	5.00			
	65 NB Threaded Brass Type Isolation valve, PN10	No.	2.00			
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.18		65 NB Flanged Non Return Valve, tilted disc type, PN 10	No.	1.00		
		65 NB Flanged Mechanical flow meter, PN 10	No.	1.00		
		M16 galvanized bolts and nuts	No.	96.00		
		65 NB Gaskets, Incl Consumables	No.	24.00		
		Mechanical Pressure Gauge, Wika (100mm dial and filled with glycerine), with a range from 400 kPa to 1600 kPa. complete with ball isolating valve and piping	No.	1.00		
		T-Pieces and Bushes to mount Pressure gauge, Pressure Switch and Flow Switch	No.	3.00		
		Submersible pump steel cage				
		Supply and install borehole discharge pipework complete as per drawing	No	1.00		
		TESTING AND COMMISSIONING				
		Testing and commission borehole installation including pumps, motors, control system and verify discharge and head characteristics	No	1.00		
		Electricity Supply				
		Supply material and erect a three phase electricity power line to the new borehole	No	1.00		
		Mark-up on item 4.2.1				
		Supply all material and install a 25kVa transformer	No	1.00		
	WATER TREATMENT (PROVISIONAL)					
	10kl PVC pre-treatment tank	No.	1			
	Supply, installation, connections, testing and handing over in working order of a 20m <sup>3</sup> /hr package water treatment plant	Prov. Sum	1			
	Overheads, charges and profit.	%	350 000.00			
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		WATER STORAGE				
		Water Tanks				
		5 000 Litre polyethylene water tank (JoJo make or equivalent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad). 2 Strands/Anchor.	No	0		
		10 000 Litre polyethylene water tank (JoJo make or equivalent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad). 2 Strands/Anchor.	No	5		
		Elevated 4.5m Steel Stand				
		Tankstand Refurbishment including, modification to concrete foundations, pipe work, brackets, surface preparation and re-painting	Sum	5		
		Elevated 4.5m Steel Stand Refurbishment (Provisional)				
		Refurbish existing steel stand - including repainting, rust protection and replacing corroded purlins	P.Sum	1		
		Outlet and overflow Pipe Schedule for items below:	Sum	1		
		a) 1½" to 50mm MALE ELBOW (Plasson)				
		b) 50mm Ø HDPE PIPE CLASS 10	m	5		Rate Only
		c) 50mm Ø PLASSON ELBOW	No	5		Rate Only
		d) 50mm Ø MALE ADAPTER (Plasson)	No	5		Rate Only
		e) 50GMS bend F/F	No	5		Rate Only
		f) 50mm Ø x 3000 GMS STAND PIPE	No	5		Rate Only
		g) 50mm Ø BRASS BALL VALVE (COBRA)	No	5		Rate Only
		h) 50mm Ø GMS NIPPLE	No	5		Rate Only
		i) 50mm Ø GMS UNION	No	5		Rate Only
		k) 50mm Ø GMS PIPE 6000 LONG	No	5		Rate Only
		l) 50mm Ø GMS ELBOW F/F	No	5		Rate Only
		m) 50mm Ø GMS STAND PIPE 300 LONG (400 long in sandy conditions)	No	5		Rate Only
		n) 50mm Ø GMS STAND PIPE 700 LONG	No	5		Rate Only
		o) 50mm Ø GMS SOCKET	No	5		Rate Only
		p) 50mm Ø GMS STAND PIPE 150mm	No	5		Rate Only
TOTAL CARRIED FORWARD						

## SECTION 3: WATER SUPPLY PIPELINES AND WATER SOURCE

ITEM NO.	PAYMENT REFERENCES	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		Inlet Pipe Schedule (From Pump)	Sum	1		
		a) 1½" TO 40mm MALE ELBOW (Plasson)	No	5		
		b) 40mm Ø HDPE PIPE CLASS 10	m	5		
		c) 40mm Ø PLASSON ELBOW	No	5		
		d) 40mm Ø MALEADAPTER (Plasson)	No	5		
		k) 40mm Ø GMS PIPE 6000 LONG	No	5		
		l) 40mm Ø GMS ELBOW F/F	No	5		
		m) 40mm Ø GMS STAND PIPE 300 LONG (400 long in sandy conditions)	No	5		
		n) 40mm Ø GMS STAND PIPE 700 LONG	No	5		
		o) 40mm Ø Galvanised socket	No	5		
		p) 40mm Ø Galvanised standpipe 150 mm long	No	5		
3.2.7		DRAW-OFFS				
3.2.7.1		Complete supply, install and test single rudimentary domestic drawoff standard type as detailed in Drawing with :				
		i) 2 Taps	No.	4.00		
		ii) 4 Taps	No.	0.00		
3.2.7.3		Complete supply, install and test garden standpipe as detailed in Drawing	No.	1.00		
		DECOMMISSIONING OF OLD SERVICES				
		Removal of old water supply equipment including old tanks, tank stands, and pumps etc.	No	2		
TOTAL CARRIED TO SUMMARY						

CHITA KEKANA SS  
External Sewer

Item	Description	Unit	Qty	Rate	Amount
	SCHEDULE 5 : EXTERNAL SEWER RETICULATION				
4.1	EARTHWORKS (PIPE TRENCHES)				
4.1.1	Excavation				
	Excavate in all material for trenches, backfill, compact and dispose of surplus material for pipes over 25mm dia up to 400mm dia for depths:				
	a) Exceeding 0,0m but not more than 1,0m	m <sup>3</sup>	70.00		
	b) Exceeding 1,0m but not exceeding 2.0m	m <sup>3</sup>	3.50		
4.2	Extra-over all excavations in pickable material irrespective of depth, for excavating in:-				
4.2.1	Intermediate excavation	m <sup>3</sup>	14.00		
4.2.2	Hard rock excavation	m <sup>3</sup>	10.50		
4.3	Excavation Ancilliaries				
4.3.1	Excavate and dispose of unsuitable material from trench bottom (provisional)	m <sup>3</sup>	3.50		
4.3.2	Make deficiency in backfill material (Provisional)				
	a) from other necessary excavation on Site	m <sup>3</sup>	3.50		
	b) by importation designated borrow pits	m <sup>3</sup>	3.50		
	c) Compaction in platform reserves	m <sup>3</sup>	3.50		
4.4	Existing services				
	a) Services that adjoin a trench	m	12.00		
	b) Services that intersect a trench	No	5.00		
Amount Carried Forward					

SCHEDULE 4 : EXTERNAL SEWER RETICULATION

Item	Description	Unit	Qty	Rate	Amount
Amount Brought Forward					
4.5	BEDDING (PIPES)				
4.5.1	Provision of Bedding from Trench Excavation				
	a) Selected granular material	m <sup>3</sup>	10.50		
	b) Selected fill material	m <sup>3</sup>	29.40		
4.5.2	Supply only of Bedding by Importation From Commercial Sources (provisional)				
	a) Selected granular material	m <sup>3</sup>	10.50		
	b) Selected fill material	m <sup>3</sup>	29.40		
4.6	SEWERS PIPELINES				
4.6.1	Supply, Lay, Joint and Bed PVC Heavy Duty Class 34 solid wall pipe (conforming to SABS 891). complete with fittings				
	a) 110mm dia	m	70.00		
	b) 150mm diameter	m	-		
	c) 225mm diameter	m	-		
	d) 375mm diameter	m	-		
4.6.2	Extra over items 11.3.1 for specials				
	a) 110mm Access bends	No	12.00		
	b) 110mm Access junctions	No	6.00		
	c) 160mm Bends	No			
	d) 160mm Access bends	No	-		
	e) 160mm Access Junctions	No	-		
Amount Carried Forward					

SCHEDULE 4 : EXTERNAL SEWER RETICULATION

Item	Description	Unit	Qty	Rate	Amount
Amount Brought Forward					
4.7	Sundries				
4.7.1	Breaking into and connecting into existing manhole	No	6.00		
4.8	MANHOLES				
4.8.1	Supply and install manholes & slabs (SABS 1294)				
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 750mm and not exceeding 1m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	1.00		
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 1000mm and not exceeding 1250m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	1.00		
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 1250mm and not exceeding 1500m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	2.00		
4.9	PIPE ANCILLARIES				
4.9.1	Encasing around pipe				
4.9.1.1	Anchor blocks in strength concrete 25Mpa /19mm including all formwork, reinforcement. reinforcement. etc.				
4.9.1.2	Anchor block size 600 x 600mm	No	10.00		
4.10	EXISTING SERVICES				
4.10.1	Connection to existing sewer				
4.10.1.1	200mm Diameter pipe to existing manhole	No	1.00		
4.10.2	Raising or lowering of existing manholes	No	1.00		
4.10.2.1	Remove cover and frame then lower the manhole to required level, complete with all necessary accessories.	No	1.00		
Amount Carried to Forward					

SCHEDULE 4 : EXTERNAL SEWER RETICULATION

Item	Description	Unit	Qty	Rate	
Amount Brought Forward					
4.11	SEPTIC TANK				
4.11.1	Septic tank:				
	Excavate in soft material exceeding 2m deep.	m³	582.912		
	Extra over septic tank excavations for carting away surplus material from excavations or stock piles to a dumping site to be located by the Contractor.	m³	87.44		
	Risk of collapse to sides septic tank excavations not exceeding 1,5m deep.	m²	176.54		
	Earthfilling obtained from the excavations or stock piles compacted to 93% in septic tank.	m³	87.44		
	Modified AASHTO density tests	No	2		
	Extra over excavation in soft material for pipe trenches, chambers, etc. for excavation in intermediate material.	Item	1.5		
	25 MPa Reinforced concrete top slab.	m³	43.72		
	25 MPa Reinforced concrete base.	m³	43.72		
	Backfilling to sides of septic tank.	m³	58.29		
	Type 395 fabric reinforcement in concrete surface beds, floor slabs, etc.	m²	295		
	Rough formwork to soffit of slab.	m²	291.46		
	Plaster to vertical surfaces.	m²	176.54		
	One brick wall in commons including wire ties for septic tank walls.	m²	36.432		
	Two brick wall in commons including wire ties for septic tank walls.	m²	176.54		
	Lintels as permanent shutters	m	291.456		
	600 x 600mm Cast iron manhole covers	No	2		
	Pipework				
	Extra over excavation in soft material for pipe trenches, chambers, etc. for excavation in intermediate material.	m³	35		
	Connecting 110mm uPVC pipe including 110mm channel junction and making good concrete benching.	No	2		
	Connecting 160mm pipe including inserting 160mm channel junction and making good concrete benching.	No	2		
	Allow for testing the complete drainage installation by visual and Air Pressure test to the satisfaction of the Employer. (All defective work to be replaced at the Contractor's expense).	Item	1		
	160mm uPVC slotted drainage pipe laid in and including trench not exceeding 1,00m deep with 500 x 500mm washed 25mm stone casing wrapped in u24 non-woven, spun-bonded, punched continuous polyester fabric including fill ram carting away etc.	m	35		
Amount Carried to Forward					

SCHEDULE 4 : EXTERNAL SEWER RETICULATION

Item	Description	Unit	Qty	Rate	Amount
Amount Brought Forward					
	Soakaway: Excavate in earth for and build French drain size as indicated on drawings , fill in with 20mm crushed stone to within 0,2m of top, enclose stone with geofabric u 24 and fill in with earth filling.	m	35		
	Extra over soakaway excavations for carting away surplus material from excavations to a dumping site to be located by the Contractor.	m³	5		
	Risk of collapse to sides of soakaway excavations exceeding 1,5m and not exc. 2m deep.	m²	28		
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape laid over soak away	m²	35		
	0,6mm IBR sheeting laid across walls.	m²	35		
	Lintels laid above soakaway	m	35		
Amount Carried to Final Summary					

CHITA KEKANA SS  
Walkways and Carports

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5.1	SABS 1200 GB	SCHEDULE 6 : WALKWAYS AND CARPORTS				
5.1.1	8.2.1(b)	FORMWORK Normal formwork to				
5.2		c) Column Foundations	m <sup>3</sup>	142.08		
5.2.1	8.2.4	REINFORCEMENT Mild steel bars of nominal diameter				
5.2.1.1		12mm	t	5.68		
5.2.2		High-tensile steel bars of nominal diameter				
5.2.2.1		16mm	t	8.52		
5.2.3		High-tensile welded mesh of nominal mass				
5.2.3.1		a) 3.95 kn/m <sup>2</sup>	m <sup>2</sup>	0.00		
5.3		CONCRETE				
5.3.1	8.2.5	Strength concrete, Grade 25MPa/19 mm in Column Footings	m <sup>3</sup>	14.21		
5.3.2		Blinding layer, Grade 10/19,0 mm	m <sup>3</sup>	1.78		
5.3.4	8.2.6	Unformed surface finishes				
5.3.4.1		Wood-float to all floors except	m <sup>2</sup>	35.52		
5.5	SABS 1200 AH	SECTION : STRUCTURAL STEELWORK				
5.5.1	8.3.1	PRELIMINARY AND GENERAL				
5.5.1.1	8.3.1.1	SUPPLY AND FABRICATION Preparation of shop detail drawings	Sum	1.00		
5.5.2	8.3.1.2	Supply, delivery and installation of steelwork (see Drawings) complete with all the necessary cleats, brackets, gussets, packs, bolts & nuts etc. as follows :				
5.5.2.1		a) Using steel to SABS 1431 Grade 350WA for walkways Simple Square Tubing - columns (welded)	t	2.28		
5.5.2.2		Square Tubing Beams - beams (welded)	t	0.79		
5.5.2.3		Square Tubing ouflins	t	2.32		
5.5.2.4		Unequal Angle rafter bracing	t	2.68		
5.5.2.5		200 x 200 x 6mm Base Plates	No.	129.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	387.00		
		Sika Non-shrink grout or Similar	m <sup>3</sup>	1.03		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	516.00		
		b) Using steel to SABS 1431 Grade 350WA for assembly Simple Square Tubing - columns (welded)	t	1.04		
		Square Tubing Beams - beams (welded)	t	0.98		
		Square Tubing ouflins	t	1.14		
		Unequal Angle rafter bracing	t	1.17		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		200 x 200 x 6mm Base Plates	No.	51.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	153.00		
		Sika Non-shrink grout or Similar	m <sup>3</sup>	0.41		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	204.00		
		c) Using steel to SABS 1431 Grade 350WA for carports				
		Simple Square Tubing - columns (welded)	t	1.54		
		Square Tubing Beams - beams (welded)	t	0.96		
		Square Tubing outrins	t	3.21		
		Unequal Angle rafter bracing	t	2.45		
		Steel Fascia beams	t	1.54		
		200 x 200 x 6mm Base Plates	No.	42.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	126.00		
		Sika Non-shrink grout or Similar	m <sup>3</sup>	0.34		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	168.00		
5.5.5	8.3.5	SITE WELDING				
5.5.5.1		Site weld items inclusive	m	66.60		
		CLADDING AND SHEETING				
		ROOF CLADDING				
5.6		Supply, deliver to Site, erect and fix green chromedek sheeting/cladding etc, including the supply of all necessary fasteners etc and cutting and notching: (See Drawings)	m <sup>2</sup>	792.80		
5.6.2	8.2.3	Approved trapezoidal profile sheeting to roofs. 0.6mm				
		Ridge flashing 450-600mm girth x 1mm - 3 bends. baked enamel external finish	m	24.00		
	8.3.1	GUTTERS AND RAINWATER PIPES				
		Galvanized mild steel				
		3mm Thick box gutter, 100mm girth 6 times bent along length to detail, including straps, stiffeners, etc as per drawing	m	317.00		
		Extra for stooped end	no	6.00		
		Extra for 150mm diameter outlet	no	42.75		
		1mm Thick 150mm diameter rainwater pipe including straps, fixed to steel columns	m	111.15		
		Extra for 45° bend	no	42.75		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
	SABS 1200 HC	CORROSION PROTECTION OF STRUCTURAL STEELWORK				
		Steelwork included under Items 1 to 7 inclusive, of Section 1200H (Supply, Fabrication and Erection)	t	12.40		
5.7	8.2.1	SURFACE DRESSING AND REPAIRS AT PLACE OF FABRICATION				
		Remove slag and weld spatter, grind welds to smooth profile, radius sharp edges as specified.	t	12.40		
5.7.1	8.2.3	SURFACE PREPARATION AND COATING APPLICATION				
5.7.1.1		Shopwork. Prepare surface and apply coat(s) as specified.	t	12.40		
5.7.2		Sitework. Clean down surfaces, touch up damaged shop coats and apply finish coats as specified	t	12.40		
5.7.2.1		Cold-formed sections				
		Tonnage shall be gross quantities inclusive of unpainted steel (e.g. embedded portions and underside of baseplate, etc.)	t	12.40		
TOTAL CARRIED TO SUMMARY						

# LDPWRI

CHITA KEKANA SECONDARY SCHOOL

BOQ FOR CIVIL ENGINEERINGS SERVICES

SUMMARY OF BILL OF QUANTITIES

SCHEDULE NO. 1: EARTHWORKS

SCHEDULE 2: EARTHWORKS (ROADS AND SUBGRADE)

SCHEDULE 2: STEEL PALISADE FENCE

SCHEDULE 3: WATER SUPPLY PIPELINES AND WATER SOURCE

SCHEDULE 4: EXTERNAL SEWER RETICULATION

SCHEDULE 5: COVERED WALKWAYS

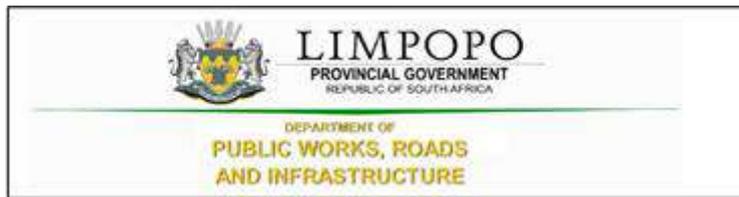
TENDER (CONTRACT) SUM (CIVIL AND STRUCTURAL WORKS)

## **PART C3 SCOPE OF WORKS**

## **SCOPE OF WORKS**

**BID NUMBER: LDPWRI-B/20288**

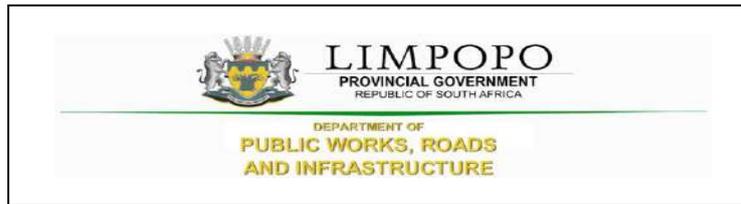
APPOINTMENT OF A CONTRACTOR FOR DEMOLITION OF 12 CLASSROOMS, OFFICES AND PIT 4 PIT TOILETES, REFURBISHMENT OF 10 CLASSROOMS, GUARD HOUSE AND 27 SEATER ENVIROLOO TOILETS, CONSTRUCTION OF 20 CLASSROOMS, MEDIUM ADMINISTRATION BLOCK, NEW 20 SEATER ENVIROLOO TOILETS, STEEL PALISADE FENCE AND EXTERNAL WORKS AT CHITA KEKANA SECONDARY SCHOOL.



## **PART C3.1: SPECIAL NOTES TO BIDDERS**

The following special conditions are for compliance and attention to bidders:

- 1.1. LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- 1.2. LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- 1.3. LDPWR&I reserve the right to appoint the bidder that proves to be fully capable and qualified to handle and execute the job.
- 1.4. The proposals submitted must be in line with the detailed specification.
- 1.5. LDPWR&I reserve the right to cancel or withdraw this bid if:
  - i. Due to changed circumstances, there is no longer a need for this services; or
  - ii. Funds are no longer available to cover the total envisaged expenditure; or
  - iii. No acceptable bids are received; or
  - iv. There is a material irregularity in the Bid process.
- 1.6. In the case of sub-contracting or joint venture agreement, LDPWR&I will enter into a single contract with the principal bidder.
- 1.7. Bidders who are not registered on Central Supplier Database (CSD) must register before submission of bids.
- 1.8. Any completion of the bid document in pencil or erasable ink will not be acceptable and will automatically disqualify the submitted bid.
- 1.9. Successful bidder will be required to sign and enter into a formal contract upon the award.
- 1.10. Notwithstanding shortcomings and/or inconsistencies, if any, in this specification, which is only a minimum specification, a bidder shall make provision for a complete solution that will deliver the required service efficiently and cost-effectively.
- 1.11. Bid documents must be submitted physically to the closing address as reflected on the Request for Quotations/Tender.
- 1.12. Quotations received after the closing date and time will not be accepted for consideration.
- 1.13. This request for bid document contains confidential information about LDPWR&I, which has been provided to supply potential bidders with the data necessary to provide a holistic response.
- 1.14. No part of the contents may be used, copied, disclosed or conveyed in whole or in part to any party, in any manner whatsoever without the prior written permission of LDPWR&I.
- 1.15. Any reproduction or transmission of information contained in this document except for the sole purpose of responding to this bid is strictly prohibited.
- 1.16. References to LDPWR&I must not be made in any literature, promotional material, and brochures or sales presentations without the express written consent of LDPWR&I.



## **PART C3.2: OHS SPECIFICATIONS**



**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS  
AND INFRASTRUCTURE**

## **PART C4 SITE INFORMATION**

**SITE INFORMATION**

**BID NUMBER: LDPWRI-B/20288**

CHITA KEKANA SECONDARY SCHOOL IN MOLETLANE VILLAGE, CAPRICORN DISTRICT,  
LEPELLE-NKUMPI LOCAL MUNICIPALITY, LIMPOPO PROVINCE.

**CO-ORDINATES**

24°21'48.4"S 29°19'28.4"E



## C4.1 DRAWINGS











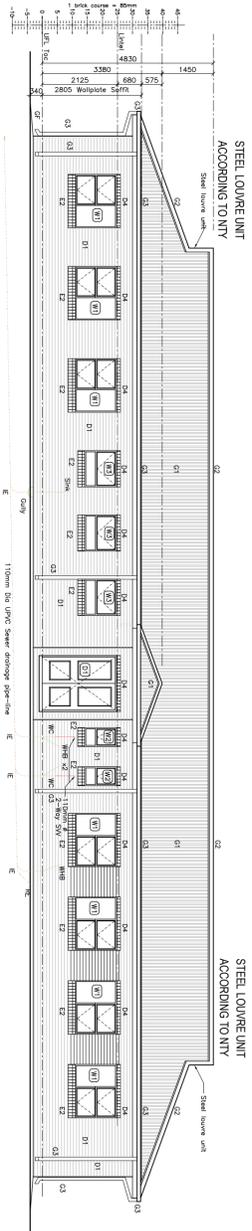




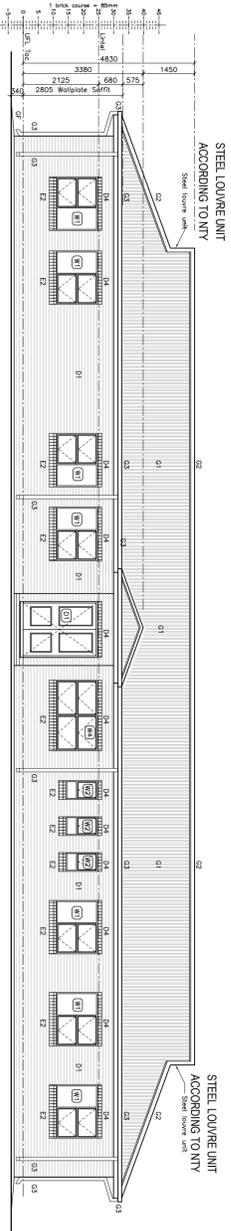


**CONSTRUCTION NOTES:**

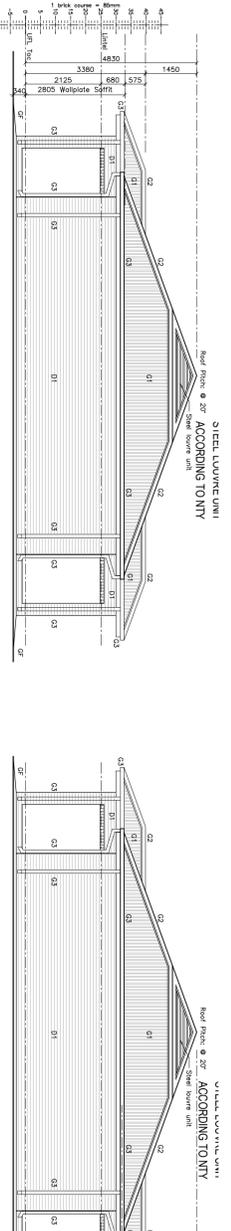
- Foundations**
- A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>2</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with anti poison in accordance with SANS Code of Practice 1065 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee.
- A2. Backfilling and filling to be done in accordance with SANS Code of Practice 0124. Backfilling and filling to be done in accordance with SANS Code of Practice 0124. Backfilling and filling to be done in accordance with SANS Code of Practice 0124. Backfilling and filling to be done in accordance with SANS Code of Practice 0124.
- A3. Backfilling and filling to be done in accordance with SANS Code of Practice 0124. Backfilling and filling to be done in accordance with SANS Code of Practice 0124. Backfilling and filling to be done in accordance with SANS Code of Practice 0124. Backfilling and filling to be done in accordance with SANS Code of Practice 0124.
- A4. Five rows of 19mm thick laminated SA Pine sheathing, 350mm wide, evenly spaced & fixed from underside to 350mm wide Shielco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shielco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) sanded varnish to shelves.
- Miscellaneous**
- A5. 119 KG DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) sanded varnish thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) sanded varnish to shelves.
- A6. 150 x 150mm Union ALS506-EB2A5 aluminium fire extinguisher sign and Union ALS506-EB2A5 aluminium red down arrow sign above the extinguisher.
- A7. 30mm fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union ALS506-68ASCE6 aluminium engraved red nose reel sign & Union ALS506-68ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & Trims (X-Range) paint - colour Signal Red (G7), Provide 150 x 150mm Union ALS506-EB5ZAS aluminium fire sign & Union ALS506-EB2A5 aluminium red down arrow sign above the hose reel.



**FRONT ELEVATION**  
SCALE 1 : 100



**BACK ELEVATION**  
SCALE 1 : 100



**SIDE ELEVATION**  
SCALE 1 : 100

- Whenever to comply with Standard Specifications of materials per SANS 1040.
- 1:10 Scale. In Drawing shall be at 1:200 mm above FFL.
- 4) Grid positions to be determined as per the provided overall change of levels.
- 5) Grid lines shall be on all exposed faces (head of all SABS & other materials).
- 6) 50mm mineral wool insulation to be installed where there are ceilings at least half do not have ceilings.
- 7) All steel fixing hardware to have standardised aluminium houses from below.
- 8) The drawings to be designed in accordance with SANS 1040 & approved by Project Engineer.

DISCIPLINE	SIGNATURE	DATE
CLIENT		
TEAM LEADER		
THE CONSULTANT		
ENVIRONMENTAL OFFICER		
ROADS/STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REVISIONS	DESCRIPTION
REV. No.	DATE
SIZE ON ORIGINAL DRAWING: 100 mm	

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA  
Department of  
**Public Works**

<b>INSTITUTION</b>	<b>CHITIA KEKANA SECONDARY SCHOOL</b>
<b>INSTITUTION'S NUMBER</b>	<b>921230023</b>
<b>SERVICE</b>	<b>NEW BUILDINGS &amp; ALTERATIONS</b>
<b>CONTRACT SECTION</b>	<b>DOCUMENTATION &amp; PROCUREMENT</b>
<b>DISCIPLINE</b>	<b>ARCHITECTURAL</b>
<b>PROJECT STAGE</b>	<b>3</b>
<b>WORK DESCRIPTION - SUB-DIVISION</b>	<b>MEDIUM ADMINISTRATION BLOCK</b>
<b>DRAWING DESCRIPTION</b>	<b>ELEVATIONS</b>
<b>CONSULTANT</b>	<b>ruben reddy architects</b>

**ruben reddy architects**  
Sole & Special Office Building  
110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000.

<b>SYSTEM</b>	<b>AUTO CAD</b>	<b>DATE</b>	<b>2020_61_MAD-104</b>
<b>SCALE</b>	<b>1:100</b>	<b>REVISED</b>	<b>A</b>





