

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO 1</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PRELIMINARIES</u></b>			
	<b><u>PRELIMINARIES</u></b>			
	<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
	The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described			
	The Preliminaries are for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities			
	Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof			
	These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents			
	Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"			
	Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence			
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## **PREAMBLES FOR TRADES**

The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles

## **GENERAL**

If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value

## **SECTION A - PRINCIPAL BUILDING AGREEMENT**

### **Definitions (A1)**

1 Definitions and interpretation (clause 1)

F:..... V:..... T:.....

Item

### **Objective and Preparation (A2 to A14)**

2 Offer acceptance and performance (clause 2)

F:..... V:..... T:.....

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3	Documents (clause 3)  F:..... V:..... T:.....	Item		
4	Design responsibility (clause 4)  F:..... V:..... T:.....	Item		
5	Employer's agents (clause 5)  F:..... V:..... T:.....  The principal agent shall:  <ul style="list-style-type: none"><li>- monitor and control progress and scheduling</li><li>- monitor all contract conditions, and</li><li>- coordinate the efforts of the employer's agents, the contractor and subcontractors</li></ul> The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part  The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process	Item		
6	Site representative (clause 6)  F:..... V:..... T:.....	Item	Item	R
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7	<p>Compliance with regulations (clause 7)</p> <p>F:..... V:..... T:.....</p> <p>Sub-clause 7.3 added:  The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work.</p> <p>Sub-clause 7.3.1 is added:  Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement."</p> <p>Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.</p> <p>The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.</p>	Item	Item	R
8	<p>Works risk (clause 8)</p> <p>F:..... V:..... T:.....</p>	Item	Item	R

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9	Indemnities (clause 9)  F:..... V:..... T:.....	Item	R
10	Works insurances (clause 10)  F:..... V:..... T:.....	Item	R
11	Liability insurances (clause 11)  F:..... V:..... T:.....	Item	R
12	Effecting insurance (clause 12)  F:..... V:..... T:.....	Item	R
13	NO CLAUSE	N/A	R
14	Security (clause 14)  The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)  F:..... V:..... T:.....	Item	R
<b><u>Execution (A15-A23)</u></b>			
15	Preparation for and execution of the works (clause 15)  F:..... V:..... T:.....	Item	R
16	Access to the works (clause 16)  F:..... V:..... T:.....	Item	R
17	Contract instructions (clause 17)  F:..... V:..... T:.....	Item	R
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18	<p>Setting out of the works (clause 18)</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments</p>	Item	
19	<p>Assignment (clause 19)</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer</p>	Item	
20	<p>Nominated subcontractors (clause 20)</p> <p>F:..... V:..... T:.....</p>	Item	
21	<p>Selected subcontractors (clause 21)</p> <p>F:..... V:..... T:.....</p> <p>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted</p> <p>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</p>	Item	
22	<p>Employer's Direct Contractors (clause 22)</p> <p>F:..... V:..... T:.....</p>	Item	
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23	Contractor's Domestic Sub-Contractors (Clause 23)  F:..... V:..... T:.....	Item		
24	<b><u>Completion (A24-A30)</u></b>  Practical completion (clause 24)  F:..... V:..... T:.....	Item		
25	Works completion (clause 25)  F:..... V:..... T:.....	Item		
26	Final completion (clause 26)  F:..... V:..... T:.....	Item		
27	Latent defects liability period (clause 27)  F:..... V:..... T:.....	Item		
28	Sectional completion (clause 28)  F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29)  F:..... V:..... T:.....  The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item		
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30	<p>Penalty for non-completion (clause 30)</p> <p>F:..... V:..... T:.....</p>	Item	R
<b><u>Payment (A31 - A35)</u></b>			
31	<p>Interim payment to the contractor (clause 31)</p> <p>F:..... V:..... T:.....</p>	Item	R
<b>32 Adjustment to the contract value (clause 32)</b>			
	<p>F:..... V:..... T:.....</p> <p>Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing</p>	Item	R
33	<p>Recovery of expense and loss (clause 33)</p> <p>F:..... V:..... T:.....</p>	Item	R
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34	<p>Final account and final payment (clause 34)</p> <p>F:..... V:..... T:.....</p> <p>The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion</p> <p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p>	Item	R
35	<p>Payment to other parties (clause 35)</p> <p>F:..... V:..... T:.....</p>	Item	
	<b><u>Cancellation (A36-A39)</u></b>		
36	<p>Cancellation by employer - contractor's default (clause 36)</p> <p>F:..... V:..... T:.....</p>	Item	
37	<p>Cancellation by employer - loss and damage (clause 37)</p> <p>F:..... V:..... T:.....</p>	Item	
38	<p>Cancellation by contractor - employer's default (clause 38)</p> <p>F:..... V:..... T:.....</p>	Item	
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39	Cancellation - cessation of the works (clause 39)  F:..... V:..... T:.....	Item	R
<b><u>Dispute (A40)</u></b>			
40	Dispute Settlement (clause 40)  F:..... V:..... T:.....	Item	R
<b><u>Substitute Provisions (A41)</u></b>			
41	State clauses (Clause 41)  F:..... V:..... T:.....	Item	R
<b><u>THE SCHEDULE</u></b>			
Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42)  F:..... V:..... T:.....	Item	R
<b><u>42.1 CONTRACTING AND OTHER PARTIES</u></b>			
42.1.1 Employer: The Mvula Trust			
42.1.2 Principal Agent: Nemorango Consulting			
<b><u>42.2 CONTRACT DETAILS</u></b>			
42.2.1 Works Description: Construction of water and sanitation facilities			
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42.2.2 Site Description: As per the information provided in the tender data			
42.2.3 Work or installations by direct contractors:  As per the information provided in the tender data			
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a <b>State</b> organ only	Yes		
42.2.5 Date on which possession of the site is intended to be given:  As per the information provided in the tender data			
42.2.6 Period for the commencement of the works after the contractor takes possession of site:  Seven days			
42.2.7 For the works <b>as a whole</b> . Intended date of practical completion and the penalty per calendar day  Intended Date of Practical Completion: As per the information provided in the tender data  <i>Penalty Amount:</i> <i>The penalty per calendar day shall be: 0.1% of the tendered amount (inclusive of value added tax)</i>			
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42.2.8 For the works in **sections**: Intended date of practical completion and the penalty per calendar day

**Section 1**

N/A..... *Date*

N/A..... *Penalty Amount*

42.2.9 The **law** applicable to this **agreement** shall be that of:

*South Africa (Country)*

**42.3 INSURANCES**

42.3.1 Contract works insurance to be effected by:

*Contractor:*

*For the Sum of R Contract Amount + 10.00 %*

*With a deductible amount the contractor deems appropriate*

42.3.2 Supplementary insurance is required:

*No*

42.3.3 Public liability insurance to be effected by:

*Contractor:*

*For the Sum of R 5 000 000-00*

*With a deductible amount the contractor deems appropriate*

**42.4 DOCUMENTS**

42.4.1 Waivers of **contractors lien** or right of continuing possession is required

*Yes*

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42.4.2 Number of construction document copies to be supplied to the **contractor** free of charge:

3 Number of

42.4.3 **Bills of Quantities/Lump sum document** schedule of rates drawn up in accordance with:  
 "Standard System of Measuring Builders' Work"

42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within:

**5 Working days**

*The priced bills of quantities must be handed in with the tender*

42.4.5 JBCC Engineering General Conditions are to be included in the **contract documents**:

No

42.4.6 The contract value is to be adjusted using escalation adjustment indices

No

Where **JBCC CPAP** is to be used

Base Month N/A

42.4.7 Details of changes made to the provision of JBCC standard documentation:

Part 1 - Contract Data completed by the Employer

## **SECTION B: PRELIMINARIES**

### **Definitions and interpretation (B1)**

43 Definition and interpretation (B1.1 - B1.4.6)

F:..... V:..... T:.....

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	<b><u>Documents (B2)</u></b>		
44	Checking of documents (B2.1)  F:..... V:..... T:.....	Item	
45	Provisional bills of quantities (B2.2)  F:..... V:..... T:.....	N/A	
46	Availability of construction documentation (B2.3)  F:..... V:..... T:.....	Item	
47	Interests of agents (B2.4)  F:..... V:..... T:.....	Item	
48	Priced documents (B2.5)  F:..... V:..... T:.....	Item	
49	Tender submission (B2.6)  F:..... V:..... T:.....	Item	
50	Defined works area (B3.1)  F:..... V:..... T:.....	Item	
	<b><u>The site (B3)</u></b>		
51	Geotechnical investigation (B3.2)  F:..... V:..... T:.....	Item	
52	Inspection of the site (B3.3)  F:..... V:..... T:.....	Item	
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	Existing premises occupied (B3.4)			
	F:..... V:..... T:.....			
	Specific requirements: The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.			
	Previous work - dimensional accuracy (B3.5)			
	F:..... V:..... T:.....			
	Previous work - defects (B3.6)			
	F:..... V:..... T:.....			
53	Services - known (B3.7)		Item	
	F:..... V:..... T:.....		Item	
54	Services - unknown (B3.8)		Item	
	F:..... V:..... T:.....		Item	
55	Protection of trees etc (B3.9)		Item	
	F:..... V:..... T:.....		Item	
56	Articles of value (B3.10)		Item	
	F:..... V:..... T:.....		Item	
	<b><u>Management of contract (B4)</u></b>			
57	Inspection of adjoining properties etc (B3.11)		Item	
	F:..... V:..... T:.....		Item	
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58	Management of the works (B4.1)  F:..... V:..... T:.....	Item	R
59	Programme for the works (B4.2)  F:..... V:..... T:.....	Item	R
60	Progress meetings (B4.3)  F:..... V:..... T:.....	Item	R
61	Technical meetings (B4.4)  F:..... V:..... T:.....	Item	R
62	Labour and Plant records (B4.5)  F:..... V:..... T:.....	Item	R
<b><u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u></b>			
63	Samples of materials (B5.1)  F:..... V:..... T:.....	Item	R
64	Workmanship samples (B5.2)  F:..... V:..... T:.....	Item	R
65	Shop drawings (B5.3)  F:..... V:..... T:.....	Item	R
66	Compliance with Manufacturer's Instructions (B5.4)  F:..... V:..... T:.....	Item	R
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	<b><u>Temporary works and plant (B6)</u></b>			
67	Deposits and fees (B6.1)  F:..... V:..... T:.....		Item	
68	Enclosure of the works (B6.2)  F:..... V:..... T:.....		Item	
69	Advertising (B6.3)  F:..... V:..... T:.....		Item	
70	Plant, equipment, sheds and offices (B6.4)  F:..... V:..... T:.....		Item	
71	Main notice board (B6.5)  F:..... V:..... T:.....		Item	
72	Subcontractors' notice board (B6.6)  F:..... V:..... T:.....		N/A	
	<b><u>Temporary services (B7)</u></b>			
73	Location (B7.1)  F:..... V:..... T:.....		Item	
74	Water (B7.2)  F:..... V:..... T:.....	<b>Option [A] shall apply</b>	Item	
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75	Electricity (B7.3)  <b>Option [A] shall apply</b>  F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4)  F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5)  <b>Option [A] shall apply</b>  F:..... V:..... T:.....	Item		
	<b><u>Prime cost amounts (B8)</u></b>			
78	Responsibility for prime cost amounts (B8.1)  F:..... V:..... T:.....	Item		
	<b><u>Attendance on N/S Subcontractors (B9)</u></b>			
79	General attendance (B9.1)  F:..... V:..... T:.....	Item		
80	Special attendance (B9.2)  F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3)  F:..... V:..... T:.....	Item		
	<b><u>Financial aspects (B10)</u></b>			
	Statutory taxes, duties and levies (B10.1)  F:..... V:..... T:.....	Item		
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89	Disturbance (B11.5)  F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6)  F:..... V:..... T:.....	Item		
91	Works cleaning and clearing (B11.7)  F:..... V:..... T:.....	Item		
92	Vermin (B11.8)  F:..... V:..... T:.....	Item		
93	Overhand work (B11.9)  F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10)  F:..... V:..... T:.....	Item		
95	As built information (B11.11)  F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12)  F:..... V:..... T:.....	Item		
<b><u>Schedule of variables (B12)</u></b>				
97	Pre-tender information (B12.1)  F:..... V:..... T:.....	Item		
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<p>12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:</p> <p style="text-align: right;">No</p> <p>12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete</p> <p style="text-align: right;">No</p> <p>12.1.3 Interest of agents (B2.4)</p> <p>12.1.4 Defined works area (B3.1)</p> <p>12.1.5 Geotechnical investigation (B3.2)</p> <p style="text-align: right;">N/A</p> <p>12.1.6 Existing premises occupied (B3.4)</p> <p>12.1.7 Previous work - dimensional accuracy (B3.4)</p> <p>12.1.8 Previous work - defects (B3.5)</p> <p>12.1.9 Services - known (B3.7)</p> <p>12.1.10 Protection of trees (B3.9)</p> <p>All trees should be protected and only on instruction of the Principal Agent may any trees be removed</p> <p>12.1.12 Enclosure of the works (B6.2)</p> <p>12.1.11 Inspection of adjoining properties (B3.11)</p>	<p><b>Carried to Collection</b></p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES &amp; GENERAL</p>	<p>R</p>
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<p>12.1.22 Protection of the works (B11.1)</p> <p style="text-align: right;">N/A</p> <p>12.1.23 Disturbance (B11.5)</p> <p style="text-align: right;">N/A</p> <p>12.1.24 Environmental Disturbance (B11.6)</p> <p style="text-align: right;">N/A</p>	<p><b>Post tender information (B12.2)</b></p> <p>12.2.1 Payment of preliminaries          Alternative selected: B</p> <p>12.2.2 Adjustment of preliminaries          Alternative selected: A</p> <p>12.2.3 Additional agreed preliminaries items</p> <p style="text-align: right;">N/A</p>	<p><b>SECTION C: SPECIFIC PRELIMINARIES</b></p> <p>Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included</p> <p><b>Site instructions</b></p> <p>Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor</p> <p>F: ..... V: .....          T: .....</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 1          PRELIMINARIES AND GENERAL          Bill No. 1          PRELIMINARIES &amp; GENERAL</p>	<p>Item</p> <p>R</p>
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99	Black economic empowerment and training  F:..... V:..... T:.....	Item	R
100	Proprietary branded products  F:..... V:..... T:.....	Item	R
101	<b>Testing of flat roof waterproofing for watertightness</b>  Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing  F:..... V:..... T:.....	Item	R
102	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative  Contract instructions  F:..... V:..... T:.....	Item	R
103	Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor  Labour record  F:..... V:..... T:.....	Item	R
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104	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>	Item	R
105	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>	Item	R
106	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p>	Item	R
<b>Carried to Collection</b>			

107 Co-operation of contractor for cost management

F:..... V:..... T:.....

It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors

Item

R

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108	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of 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</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained</p> <p>The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines. It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under this clause and the specific related clauses hereafter and no additional claims in this regard shall be entertained</p>	<p>Item</p> <p>Carried to Collection</p> <p>Section No. 1  <b>PRELIMINARIES AND GENERAL</b></p> <p>Bill No. 1  <b>PRELIMINARIES &amp; GENERAL</b></p>	<p>R</p>
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109	Occupational Health and Safety Specification F:..... V:..... T:..... Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines	Item		
110	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
111	Occupational Health and Safety Specification F:..... V:..... T:..... Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc	Item		
112	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of reflective vests	Item		
113	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hard hats	Item		
114	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of protective footwear	Item		
115	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of earplugs	Item		
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116	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of dust masks	Item		
117	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of gloves	Item		
118	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of high visibility overalls to SARTSM Chapter 13 Level 3	Item		
119	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of SANS approved ear defenders	Item		
120	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of face masks (Covid -19)	Item		
121	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of face shields (Covid -19)	Item		
122	Provision of personal protective equipment (PPE) F:..... V:..... T:.....  Provision of gloves (Covid -19)	Item		
<b>Carried to Collection</b>				
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123	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid -19)</p>	Item	R
124	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)</p>	Item	R
125	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)</p>	Item	R
126	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)</p>	Item	R
127	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Provision of signage, including Covid -19 related signage</p>	Item	R
128	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Provision of full time construction health and safety officer (SACPCMP Registered)</p>	Item	R
<b>Carried to Collection</b>		R	R
<p>Section No. 1  <b>PRELIMINARIES AND GENERAL</b>  Bill No. 1  <b>PRELIMINARIES &amp; GENERAL</b></p>			

129	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations</p>	Item		
130	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Medical screenings, examinations, etc in terms of Covid-19 regulations</p>	Item		
131	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Induction training, including Covid-19 training</p>	Item		
132	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Provision of first aid boxes to GSR requirements</p>	Item		
133	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc</p>	Item		
134	<p>Provision of personal protective equipment (PPE)</p> <p>F:..... V:..... T:.....</p> <p>Submission of health and safety file</p>	Item		
<b>Carried to Collection</b>				
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135	<p>HIV/AIDS Awareness</p> <p>F:..... V:..... T:.....</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 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.</p> <p>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 31.0 of 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</p> <p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire". The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained</p>			
		Item		

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO.2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><b><u>REMOVAL OF EXISTING WORK:</u></b></p> <p>NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.</p> <p>DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.</p> <p>PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.</p> <p>PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2  <b>ALTERATIONS</b>      Bill No. 1  <b>ALTERATIONS</b></p>			R

OLD USABLE MATERIALS from the alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work. Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.

MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.

Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.

### **DEMOLITIONS, ETC.**

#### Breaking up and removing mass concrete

1	Concrete aprons, size approximately 1000mm Wide x 125mm thick		m	25
	B : 25      C : 0      J : 0      O : 0 P : 0      R : 0			

2	85mm Thick surface bed		m2	26
	B : 26      C : 0      J : 0      O : 0 P : 0      R : 0			

#### Taking out and removing ironmongery

3	Door stop		No	16
	B : 16      C : 0      J : 0      O : 0 P : 0      R : 0			

#### **Carried to Collection**

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	<u>Taking out and removing doors, windows, etc</u>				
4	Timber single door 813 x 2032mm high  B : 4      C : 0      J : 0      O : 0  P : 0      R : 0	No	4		
5	Single gate size 1000 x 2100mm high  B : 2      C : 0      J : 0      O : 0  P : 0      R : 0	No	2		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
6	Corrugated iron roof covering, rafters and timber purlins  B : 33      C : 0      J : 0      O : 0  P : 0      R : 0	m2	33		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes</u>				
7	Double concrete washtrough including taps, traps, damaged pipes, etc  B : 2      C : 0      J : 0      O : 0  P : 0      R : 0	No	2		
8	Enviro-loo components complete including filling pits with excavated and or imported fill, compaction, soil poisoning, breaking down brickwork where necessary, slab and preparing pits to receive new soil drainage  B : 1      C : 0      J : 0      O : 0  P : 0      R : 0	No	1		
9	Enviro-loo components including excavations, breaking down brickwork, slab and preparing pits to receive new components  B : 5      C : 0      J : 0      O : 0  P : 0      R : 0	No	5		
	<u>Taking out and removing glass and mirrors</u>				
10	Glass from steel windows, including cleaning out rebates and preparing for new glass  B : 7      C : 0      J : 0      O : 0  P : 0      R : 0	m2	7		
	<b>Carried to Collection</b>				
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<b><u>SERVICING OF DOORS AND WINDOWS</u></b>							
11	Replace window stays, handles and pegs (PC Amount R150-00 Vat excl supplied and delivered to site)				No	5	
	B : 5	C : 0	J : 0	O : 0			
	P : 0	R : 0					
12	Remove door striker plate and replace with new (PC Amount R150-00 Vat excl supplied and delivered to site)				No	5	
	B : 5	C : 0	J : 0	O : 0			
	P : 0	R : 0					
13	Replace missing striker plate with new (PC Amount R150-00 Vat excl supplied and delivered to site)				No	6	
	B : 6	C : 0	J : 0	O : 0			
	P : 0	R : 0					
14	Tighten loose door striker plate				No	4	
	B : 4	C : 0	J : 0	O : 0			
	P : 0	R : 0					
<b>Carried to Collection</b>							
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	<p><b><u>SECTION NO.3</u></b></p> <p><b><u>BILL NO.1</u></b></p> <p><b><u>FOUNDATIONS</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Nature of ground</u></b></p> <p>Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes</p> <p><b><u>Nature of ground</u></b></p> <p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><b><u>Filling</u></b></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 3      BUILDING      Bill No. 1      FOUNDATIONS</p>			R

<b><u>Soil poisoning</u></b>					
Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent					
<b><u>SITE CLEARANCE ETC</u></b>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc		m2	339	
	B : 0      C : 58      J : 73      O : 94				
	P : 115      R : 0				
<u>Earthworks</u>					
2	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density		m2	339	
	B : 0      C : 58      J : 73      O : 94				
	P : 115      R : 0				
<b><u>EXCAVATION, FILLING, ETC</u></b>					
<u>Excavation in earth not exceeding 2m deep</u>					
3	Trenches		m3	43	
	B : 0      C : 8      J : 12      O : 12				
	P : 10      R : 0				
4	Pits		m3	32	
	B : 0      C : 0      J : 0      O : 0				
	P : 32      R : 0				
<u>Extra over trench and hole excavations in earth for excavation in</u>					
5	Soft rock		m3	3	
	B : 0      C : 0      J : 1      O : 1				
	P : 1      R : 0				
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6	Hard rock		m3	7		
	B : 0      C : 1      J : 1      O : 1					
	P : 4      R : 0					
<u>Extra over all excavations for carting away</u>						
7	Surplus material from excavations on site to a dumping site to be located by the contractor		m3	52		
	B : 0      C : 8      J : 12      O : 12					
	P : 19      R : 0					
<u>Risk of collapse of excavations</u>						
8	Sides of trench and hole excavations not exceeding 1,5m deep		m2	152		
	B : 0      C : 24      J : 36      O : 36					
	P : 57      R : 0					
<u>Keeping excavations free of water</u>						
9	Keeping excavations free of all water other than subterranean water			Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>					
10	Under floors, steps, paving, etc		m3	16		
	B : 0      C : 3      J : 4      O : 4					
	P : 6      R : 0					
11	Backfilling to trenches, holes, etc		m3	46		
	B : 0      C : 7      J : 11      O : 11					
	P : 17      R : 0					
<u>Compaction of surfaces</u>						
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density		m2	130		
	B : 26      C : 10      J : 24      O : 22					
	P : 48      R : 0					
<b>Carried to Collection</b>						
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13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Ramps)	m2	9		
	B : 0      C : 0      J : 5      O : 5				
	P : 0      R : 0				
	<u>Prescribed density tests on filling</u>				
14	"Modified AASHTO Density"	No	18		
	B : 0      C : 6      J : 6      O : 6				
	P : 0      R : 0				
	<b><u>SOIL POISONING</u></b>				
	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
15	To bottoms and sides of trenches, etc.	m2	234		
	B : 0      C : 36      J : 53      O : 53				
	P : 91      R : 0				
16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	109		
	B : 26      C : 10      J : 24      O : 22				
	P : 27      R : 0				
	<u>Soil insecticide</u>				
17	To bottoms and sides of trenches etc	m2	234		
	B : 0      C : 36      J : 53      O : 53				
	P : 91      R : 0				
18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	109		
	B : 26      C : 10      J : 24      O : 22				
	P : 27      R : 0				
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
		<b>Carried to Collection</b>			
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	<u>15MPa/19mm concrete</u>					
19	Surface blinding under footings and bases			m3	4	
	B : 0      C : 1      J : 1      O : 1					
	P : 1      R : 0					
	<u>25MPa/19mm concrete</u>					
20	Strip footings			m3	14	
	B : 0      C : 3      J : 4      O : 4					
	P : 3      R : 0					
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>					
	<u>30MPa/19mm concrete</u>					
21	Surface beds in pits			m3	1	
	B : 0      C : 0      J : 0      O : 0					
	P : 1      R : 0					
22	Extra over for thickening in bottoms of tanks for thickening size approximately 125mm deep, 500mm at top and tapering to 460mm at bottom, incl. all excavations, cart away, etc.			m	15	
	B : 0      C : 0      J : 0      O : 0					
	P : 15      R : 0					
	<b><u>REINFORCED CONCRETE</u></b>					
	<u>30Mpa/19mm concrete</u>					
23	Slabs including beams and inverted beams			m3	1	
	B : 0      C : 0      J : 0      O : 0					
	P : 1      R : 0					
	<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>					
		<b>Carried to Collection</b>				
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	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
24	Surface beds, slabs, etc  B : 0      C : 0      J : 0      O : 0  P : 12      R : 0	m2	12		
25	Surface beds, slabs, etc (Bottom of tanks)  B : 0      C : 0      J : 0      O : 0  P : 12      R : 0	m2	12		
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>					
<u>Smooth formwork to sides</u>					
26	Edges, risers, ends and reveals not exceeding 300mm high or wide  B : 0      C : 0      J : 0      O : 0  P : 15      R : 0	m	15		
<b><u>PERMANENT FORMWORK TO SOFFITS</u></b>					
<u>Permanent formwork formed of 0.6mm thick corrugated sheeting supported by carbolenium treated gumpoles to the satisfaction of the principal agent to:</u>					
27	Slabs propped up not exceeding 1.5m high  B : 0      C : 0      J : 0      O : 0  P : 12      R : 0	m2	12		
28	Form 500mm radius opening in floor slab  B : 0      C : 0      J : 0      O : 0  P : 5      R : 0	No	5		
<b><u>REINFORCEMENT</u></b>					
<b>Carried to Collection</b>					
Section No. 3 BUILDING Bill No. 1 FOUNDATIONS					

	<u>Fabric reinforcement</u>				
29	Steedale Mesh standard square fabric mesh, nominal mass 3,95 kg/m <sup>2</sup> with nominal 5,6mm thick wires and 200 x 200mm pitch (code 395), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (Bottom slab of enviroloo toilets)		m2	12	
	B : 0      C : 0      J : 0      O : 0				
	P : 12      R : 0				
30	Steedale Mesh standard square fabric mesh, nominal mass 3,95 kg/m <sup>2</sup> with nominal 5,6mm thick wires and 200 x 200mm pitch (code 395), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long (Slabs of enviroloo toilets)		m2	12	
	B : 0      C : 0      J : 0      O : 0				
	P : 12      R : 0				
31	Steedale Mesh standard square fabric mesh, nominal mass 8,88 kg/m <sup>2</sup> with nominal 12mm thick wires and 200 x 200mm pitch (code 888), complying with SANS 1024/2006 requirements cut to 500mm width and laid loose in concrete strip footings		m	68	
	B : 0      C : 17      J : 25      O : 25				
	P : 0      R : 0				
	<b><u>TEST CUBES</u></b>				
32	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.		Sets	18	
	B : 0      C : 6      J : 6      O : 6				
	P : 0      R : 0				
	<b><u>BRICKWORK</u></b>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
33	One brick walls		m2	51	
	B : 0      C : 10      J : 15      O : 15				
	P : 10      R : 0				
		<b>Carried to Collection</b>			
	Section No. 3 BUILDING Bill No. 1 FOUNDATIONS				R



39	<p><u>Prepare and apply two coats approved black epoxy paint</u></p> <p>On internal plastered walls</p> <p>B : 0      C : 0      J : 0      O : 0</p> <p>P : 23      R : 0</p>	m2	23	
	<p><b>Carried to Collection</b></p> <p>Section No. 3 BUILDING Bill No. 1 FOUNDATIONS</p>		R	

**TMT-LDOE2023/24-LPCL15H**  
**THE MVULA TRUST**  
**LDOE2023/2024 WATER & SANITATION**  
**XIHOKO PRIMARY SCHOOL**

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.3</u></b>			
	<b><u>BILL NO.2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Cost of tests</u></b>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
	Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
	<b><u>"Foamcement" lightweight concrete</u></b>			
	"Foamcement" lightweight concrete is to have a density of 600kg/m <sup>3</sup> for the top 50mm and 400kg/m <sup>3</sup> for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm			
		Carried to Collection		
	Section No. 3 BUILDING Bill No. 2 CONCRETE, FORMWORK & REINFORCEMENT			
			R	

**"Celbeton" lightweight concrete**

"Celbeton" lightweight concrete is to have a density of 1000kg/m<sup>3</sup> for the top 20mm and 480kg/m<sup>3</sup> for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm

**Formwork**

Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

**REINFORCED CONCRETE**

**25MPa/19mm concrete**

1	Ramps	B : 0      C : 0      J : 0      O : 0 P : 0      R : 0	m3	1
2	Surface beds cast in panels on waterproofing.	B : 2      C : 1      J : 2      O : 2 P : 2      R : 0	m3	10

**CONCRETE SUNDRIES**

**Carried to Collection**

Section No. 3  
**BUILDING**  
Bill No. 2  
CONCRETE, FORMWORK & REINFORCEMENT

R

	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>					
3	Ramps to falls			m2	9	
	B : 0      C : 0      J : 5      O : 5					
	P : 0      R : 0					
4	Surface beds, slabs, etc			m2	109	
	B : 26      C : 10      J : 24      O : 22					
	P : 27      R : 0					
	<b><u>TEST CUBES</u></b>					
5	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith			Sets	35	
	B : 0      C : 6      J : 8      O : 6					
	P : 15      R : 0					
	<b><u>DIVIDING STRIPS, ETC.</u></b>					
6	6 x 38mm Angle iron step guard cast into concrete with 3 x 6mm anchors			m	3	
	B : 0      C : 1      J : 1      O : 1					
	P : 1      R : 0					
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>					
	<u>Smooth formwork to sides</u>					
7	Edges, risers, ends and reveals not exceeding 300mm high or wide			m	6	
	B : 0      C : 0      J : 3      O : 3					
	P : 0      R : 0					
	<b><u>REINFORCEMENT</u></b>					
		<b>Carried to Collection</b>				
	Section No. 3 BUILDING Bill No. 2 CONCRETE, FORMWORK & REINFORCEMENT					



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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.3</u></b>			
	<b><u>BILL NO.3</u></b>			
	<b><u>MASONRY</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>BRICKWORK</u></b>			
	<b><u>Sizes in descriptions</u></b>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<b><u>Linings to concrete</u></b>			
	Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
	<b><u>Face bricks</u></b>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<b><u>Pointing</u></b>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	<b><u>SUPERSTRUCTURE</u></b>			
	<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
1	Half brick walls in beamfilling . B : 0      C : 2      J : 4      O : 4 P : 4      R : 0	m <sup>2</sup>	14	
	<b>Carried to Collection</b>			
	Section No. 3 BUILDING Bill No. 3 MASONRY			

2	One brick walls		m2	237		
	B : 0      C : 37      J : 68      O : 68					
	P : 64      R : 0					
<b><u>BRICKWORK SUNDRIES</u></b>						
<u>Brickwork reinforcement</u>						
3	75mm Wide reinforcement built in horizontally		m	543		
	B : 0      C : 48      J : 163      O : 139					
	P : 193      R : 0					
4	150mm Wide reinforcement built in horizontally		m	1 026		
	B : 0      C : 159      J : 295      O : 295					
	P : 277      R : 0					
<u>Galvanised wire ties etc</u>						
5	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork		No	60		
	B : 0      C : 8      J : 17      O : 17					
	P : 19      R : 0					
<u>Turning pieces</u>						
6	115mm Wide turning piece to lintels etc		m	56		
	B : 0      C : 6      J : 14      O : 17					
	P : 19      R : 0					
7	230mm Wide turning pieces to lintels etc		m	5		
	B : 0      C : 1      J : 2      O : 2					
	P : 1      R : 0					
<u>Prestressed fabricated lintels</u>						
8	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 6m (across enviro loo pit for support of one brick wall)		m	2		
	B : 0      C : 0      J : 0      O : 0					
	P : 2      R : 0					
<b>Carried to Collection</b>						
Section No. 3 <b>BUILDING</b> Bill No. 3 <b>MASONRY</b>						

	<u>Holes</u>				
9	Leave or form opening through one brickwall for pipe n.e 100mm diameter  B : 2      C : 3      J : 4      O : 4  P : 0      R : 0	No	13		
10	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter  B : 4      C : 1      J : 6      O : 6  P : 5      R : 0	No	22		
<b><u>FACE BRICKWORK</u></b>					
	<u>Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
11	Extra over brickwork for face brickwork  B : 0      C : 78      J : 144      O : 143  P : 138      R : 0	m2	503		
12	Half brick wall faced on both sides  B : 0      C : 5      J : 22      O : 16  P : 28      R : 0	m2	71		
13	Extra over brickwork for brick-on-edge header course lintel  B : 0      C : 3      J : 7      O : 8  P : 8      R : 0	m	26		
14	Fair cutting and fitting around pipe not exceeding 100mm diameter  B : 2      C : 3      J : 4      O : 4  P : 0      R : 0	No	13		
15	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter  B : 4      C : 1      J : 6      O : 6  P : 0      R : 0	No	17		
	<b>Carried to Collection</b>				
Section No. 3 BUILDING Bill No. 3 MASONRY				R	

	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>			
16	110mm Wide sill set level and slightly projecting  B : 0      C : 3      J : 5      O : 6  P : 7      R : 0	m	21	
17	220mm Wide sill set sloping and slightly protecting outside  B : 0      C : 3      J : 5      O : 6  P : 7      R : 0	m	21	

Carried to Collection

Section No. 3  
 BUILDING  
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 MASONRY

R

Section No. 3 BUILDING Bill No. 3 MASONRY <b><u>COLLECTION</u></b>	Page No	Amount
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Item No		Quantity	Rate	Amount
<b><u>SECTION NO.3</u></b>				
<b><u>BILL NO.4</u></b>				
<b><u>WATERPROOFING</u></b>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<u>One layer of 375 micron Consol Plastic Brikgrip DPC"</u> <u>embossed damp proof course</u>			
1	In walls  B : 0      C : 4      J : 9      O : 9  P : 9      R : 0	m2	31	
	<u>One layer of 250 micron "Consol Plastic USB Green"</u> <u>waterproof sheeting sealed at laps with "Gunplas</u> <u>Pressure Sensitive Tape"</u>			
2	Under surface beds  B : 26      C : 10      J : 24      O : 22  P : 27      R : 0	m2	109	
	<b><u>FLOOR AND WALL SEALERS</u></b>			
	<u>"Secomastic" non setting mastic sealant applied cold</u> <u>with a hand pressure caulking gun and leave perfectly</u> <u>watertight</u>			
3	Around steel windows and door frames  B : 0      C : 40      J : 110      O : 117  P : 117      R : 0	m	384	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3 BUILDING Bill No. 4 WATERPROOFING		R	

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.3</u></b>			
	<b><u>BILL NO.5</u></b>			
	<b><u>ROOF COVERINGS ETC</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
		<b>Carried to Collection</b>		
	Section No. 3 BUILDING Bill No. 5 ROOF COVERINGS, ETC			
			R	

Traffic Green color to be as follows:

**Colour:** Traffic Green  
**Gloss:** 30+/-Gardner 60  
**Film Thickness:** 17 - 22 Microns  
**Primer:** Global Prime 204  
**Pencil Hardness:** H  
**Flexibility:** >8mm  
**Impact Resistance:** >30 INLB on HDG  
**Bending:** 2 Ton HDG  
**Solvent Resistance:** > 100 Double Rubs with MEK  
**Salt Spray Test:** 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe  
**Weather-0-meter:** 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)  
**Florida Exposure Test:** After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

### **PROFILED METAL SHEETING AND ACCESSORIES**

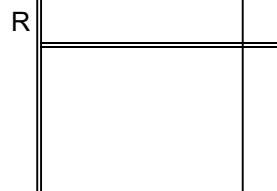
Global Roofing Solutions 0,58mm thick 700mm cover  
Klip-Lok 700™ profile Chromadek Z200 spelter ISQ550  
Traffic Green finish top coat and grey backing coat  
galvanised steel roof sheeting, fixed to timber  
intermediate purlins at 2500mm centres and eaves and  
ridge purlins at 2100mm centres using KL700 clips fixed  
with 10No.11 x 45mm long self drilling wafer head PH2  
screws, type 17 drill point fasteners, all in accordance  
with the manufacturer's specifications.

- Installation region: exceeding 5km from the coast.

1	Roof covering with pitch not exceeding 25 degrees  B : 69      C : 22      J : 55      O : 44  P : 49      R : 0	m2	238
<b><u>Sundries</u></b>			
2	12" Thermal resistance sisalition laid on purlins  B : 65      C : 19      J : 49      O : 39  P : 43      R : 0	m2	216

### **Carried to Collection**

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**BUILDING**  
Bill No. 5  
ROOF COVERINGS, ETC



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Item No	Quantity	Rate	Amount
<b><u>SECTION NO.3</u></b>			
<b><u>BILL NO.6</u></b>			
<b><u>CARPENTRY AND JOINERY</u></b>			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<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			
<b><u>Joinery:</u></b>			
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<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			
<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			
<b><u>ROOFS, ETC.</u></b>			
<b>Carried to Collection</b>			
Section No. 3			
BUILDING			
Bill No. 6			
CARPENTRY AND JOINERY			

	<u>Sawn softwood</u>					
1	38 x 114mm Wall plates B : 9      C : 7      J : 15      O : 47 P : 17      R : 0	m	95			
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m B : 32      C : 16      J : 35      O : 107 P : 39      R : 0	m	229			
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m B : 0      C : 20      J : 41      O : 41 P : 45      R : 0	m	146			
	<u>Sundries</u>					
4	Two coats creosote on sawn timbers B : 3      C : 2      J : 5      O : 14 P : 5      R : 0	m2	28			
5	MiTek® eCo hurricane clips hurricane clip fixed using Perifix nails or bolts through pre-drilled holes. B : 25      C : 15      J : 20      O : 20 P : 20      R : 0	No	100			
	<b>EAVES, VERGES, ETC</b>					
	<u>"Everite FC77" pressed fibre-cement</u>					
6	Everite medium density plain ungrooved Nutec fascia boards (Code: 040-904), size 225 x 10mm, fixed to timber rafters twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends. B : 38      C : 8      J : 16      O : 16 P : 18      R : 0	m	97			
	<b>Carried to Collection</b>					
	Section No. 3 BUILDING Bill No. 6 CARPENTRY AND JOINERY				R	

7	Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex.	m	54		
<b>DOORS, ETC</b>					
	<u>44mm Wrought meranti framed, ledged, braced and battened door of 44 x 150mm top rails and stiles, 22 x 150mm middle legde and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding</u>				
8	Door size 813 x 2032mm high cut 100mm short at the bottom	No	20		
	B : 4      C : 1      J : 5      O : 5 P : 5      R : 0				
9	Door size 813 x 2032mm high with standard weather bar	No	6		
	B : 2      C : 1      J : 1      O : 1 P : 1      R : 0				
10	Door size 914 x 2032mm high including weatherboard	No	2		
	B : 0      C : 0      J : 1      O : 1 P : 0      R : 0				
<b>Carried to Collection</b>					
Section No. 3 <b>BUILDING</b> Bill No. 6 <b>CARPENTRY AND JOINERY</b>					



Item No		Quantity	Rate	Amount
<b><u>SECTION NO.3</u></b>				
<b><u>BILL NO.7</u></b>				
<b><u>IRONMONGERY</u></b>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Finishes to ironmongery</u></b>			
	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 SD Sanded			
	<b><u>CATCHES,CABIN HOOKS, ETC</u></b>			
	<b><u>"ASSA ABLOY" or similar approved</u></b>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged  B : 2      C : 1      J : 2      O : 2 P : 1      R : 0	No	8	
<b><u>LOCKS</u></b>				
	<b><u>"ASSA ABLOY" or similar approved</u></b>			
2	ASSA ABLOY 50mm Brass padlock (Code: UN335000000000) with 28mm hardened steel shackle.  B : 2      C : 1      J : 2      O : 2 P : 1      R : 0	No	8	
<b><u>Carried to Collection</u></b>				
Section No. 3 BUILDING Bill No. 7 IRONMONGERY				
R				

3	ASSA ABLOY Gower handle on 152 x 41mm backplate with Satin Chrome finish (Code: CZ682-24SC) including 3 lever upright lock (Code: 2252-76SS).  B : 6      C : 1      J : 2      O : 2 P : 1      R : 0	No	12		
4	UNION stainless steel indicator bolts (code: SS8023SS) with Stainless Steel finish.  B : 4      C : 1      J : 5      O : 5 P : 5      R : 0	No	20		
5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.  B : 0.0      C : 0.0      J : 1.0      O : 1.0 P : 0.0      R : 0.0	Pairs	2.0		
<b><u>SUNDRIES</u></b>					
<u>"ASSA ABLOY" or similar approved</u>					
6	UNION aluminium door stop (code: AL8730AS) with Anodised Silver finish.  B : 18      C : 2      J : 7      O : 7 P : 6      R : 0	No	40		
<u>Stainless steel kick/push plates</u>					
7	150 x 300mm High x 1,2mm thick stainless steel push plate  B : 0      C : 0      J : 1      O : 1 P : 0      R : 0	No	2		
8	900 x 300mm High x 1,2mm thick stainless steel kick plate  B : 0      C : 0      J : 1      O : 1 P : 0      R : 0	No	2		
<u>"Vaal Paragon" or similar approved</u>					
9	32mm Type 9 back grab rail 800mm long plugged  B : 0      C : 0      J : 1      O : 1 P : 0      R : 0	No	2		
10	32mm Type 8 side grab rail 900mm girth plugged  B : 0      C : 0      J : 1      O : 1 P : 0      R : 0	No	2		
<b>Carried to Collection</b>					
Section No. 3 BUILDING Bill No. 7 IRONMONGERY					

<b><u>BATHROOM FITTINGS</u></b>				No	22		
<u>"Kimberley-Clark or similar approved"</u>							
11	SQ2 code 405607B white none lockable toilet roll holder plugged to wall	B : 4 P : 5	C : 1 R : 0	J : 6	O : 6	No	
12	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	B : 0 P : 0	C : 0 R : 0	J : 7	O : 5	No	12
<b><u>LETTERS, NAMEPLATES, ETC</u></b>				No	3		
<u>"ASSA ABLOY" or similar approved</u>							
13	ASSA ABLOY Aluminium engraved plate E10, size 152 x 152mm (Code: AL5066-06ASE10). (Male)	B : 1 P : 1	C : 1 R : 0	J : 0	O : 0	No	
14	ASSA ABLOY Aluminium engraved plate E11, size 152 x 152mm (Code: AL5066-06ASE11). (Female)	B : 1 P : 0	C : 0 R : 0	J : 1	O : 1	No	3
15	ASSA ABLOY Aluminium engraved plate E14, size 152 x 152mm (Code: AL5066-06ASE14). (Paraplegic)	B : 0 P : 0	C : 0 R : 0	J : 1	O : 1	No	2
<u><b>Stainless steel:</b></u>							
16	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	B : 2 P : 0	C : 1 R : 0	J : 4	O : 3	No	10
				<b>Carried to Collection</b>			
Section No. 3 BUILDING Bill No. 7 IRONMONGERY				R			

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XIHOKO PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.3</u></b>			
	<b><u>BILL NO.8</u></b>			
	<b><u>METALWORK</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Descriptions</u></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><u>STEEL HANDRAILS, BALUSTRADES, ETC</u></b>			
	<u>Welded handrails to walkways as per drawings attached to these bills of quantities</u>			
1	Raking welded balustrading 1000mm high formed of 50 x 50 x 3mm thick square hollow section top and bottom rails, with uprights formed of 50 x 50 x 3mm thick square hollow section steel at 986mm centres, the balustrading with two diagonal cross members formed of 50 x 25 x 3mm thick hollow section and welded to steel columns (e/m) at 1000mm centres  B : 0      C : 0      J : 6      O : 6 P : 0      R : 0	m	12	
2	100 x 100 x 5mm Thick base plate, four times holed and welded to bottom of posts (e/m)  B : 0      C : 0      J : 6      O : 6 P : 0      R : 0	No	12	
	<b>Carried to Collection</b>			
	Section No. 3 BUILDING Bill No. 8 METALWORK			R

3	Extra over last for closed end to 50 x 50mm rails  B : 0      C : 0      J : 4      O : 4  P : 0      R : 0	No	8		
4	M16 x 100mm expansion bolt  B : 0      C : 0      J : 12      O : 12  P : 0      R : 0	No	24		
<b><u>WELDED SCREENS, GATES, ETC</u></b>					
<u>Gates to external doors</u>					
5	Single gate and frame size 925 x 2082mm high  B : 0      C : 1      J : 2      O : 2  P : 1      R : 0	No	6		
<b><u>PRESSED STEEL DOOR FRAMES</u></b>					
<u>1.2mm Double rebated frames suitable for half brick walls</u>					
6	Frame for door size 813 x 2032mm high  B : 0      C : 1      J : 5      O : 5  P : 5      R : 0	No	16		
<u>1.2mm Double rebated frames suitable for one brick walls</u>					
7	Frame for door size 813 x 2032mm high  B : 0      C : 1      J : 1      O : 1  P : 1      R : 0	No	4		
8	Frame for door size 914 x 2032mm high  B : 0      C : 0      J : 1      O : 1  P : 0      R : 0	No	2		
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>					
<u>"Nty" steel or similar approved school windows with standard burlgar bars formed of 20 x 5mm thick flat bars to all sashes</u>					
9	Window type NE1, size 533 x 654mm high  B : 0      C : 3      J : 6      O : 6  P : 8      R : 0	No	23		
<b>Carried to Collection</b>					
Section No. 3 BUILDING Bill No. 8 METALWORK					

10 Window type NE7, size 1022 x 654mm high  
B : 0 C : 1 J : 2 O : 3  
P : 3 R : 0

No

9

Section No. 3  
BUILDING  
Bill No. 8  
METALWORK

Carried to Collection

R



Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.3</u></b>			
	<b><u>BILL NO.9</u></b>			
	<b><u>PLASTERING</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>CEMENT SCREEDS TO CONCRETE</u></b>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors B : 12      C : 10      J : 25      O : 23 P : 28      R : 0	m2	98	
	<b><u>FLOOR AND WALLS SEALERS</u></b>			
	<u>Minimum two coats approved epoxy coat:</u>			
2	On screed B : 12      C : 10      J : 25      O : 23 P : 28      R : 0	m2	98	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3 BUILDING Bill No. 9 PLASTERING		R	

Item No		Quantity	Rate	Amount
<b><u>SECTION NO.3</u></b>				
<b><u>BILL NO.10</u></b>				
<b><u>PLUMBING AND DRAINAGE</u></b>				
<b><u>RAINWATER DISPOSAL</u></b>				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
<u>0.6mm Galvanised sheet iron with "Chromadek" finish on one side</u>				
1	100 x 100mm Eaves gutters with beaded front edge  B : 5      C : 4      J : 8      O : 8 P : 9      R : 0	m	34	
2	Extra over eaves gutter for outlet for 75 x 100mm down pipe  B : 2      C : 2      J : 2      O : 2 P : 2      R : 0	No	10	
3	Extra over eaves gutter for stopped end  B : 2      C : 2      J : 2      O : 2 P : 2      R : 0	No	10	
4	75 x 100mm Diameter rainwater pipes  B : 4      C : 4      J : 4      O : 4 P : 4      R : 0	m	20	
5	Extra over 75 X 100mm rainwater pipe for shoe  B : 2      C : 2      J : 2      O : 2 P : 2      R : 0	No	10	
6	Extra over 75 x 100mm rainwater pipe for eaves or plinth offset 600mm projection  B : 2      C : 2      J : 2      O : 2 P : 2      R : 0	No	10	
<b><u>SOIL DRAINAGE</u></b>				
Carried to Collection				
Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE				
R				

	<u>uPVC pipes</u>				
7	110mm Pipes laid in and including trenches not exceeding 1m deep  B : 71      C : 20      J : 18      O : 15  P : 0      R : 280	m	404		
	<u>Extra over "Corflo" double walled radial ribbed uPVC pipes with integral moulded cuff joints and rubber seal rings for uPVC fittings</u>				
8	110mm Bend  B : 3      C : 4      J : 4      O : 6  P : 0      R : 25	No	42		
9	110mm Junction  B : 3      C : 4      J : 3      O : 3  P : 0      R : 8	No	21		
	<u>uPVC gulleys:</u>				
10	110mm Gully not exceeding 500mm deep  B : 1      C : 1      J : 2      O : 2  P : 1      R : 0	No	7		
	<b><u>SUNDRIES</u></b>				
11	110mm "ABC" cleaning eye end of pipe  B : 1      C : 0      J : 0      O : 0  P : 0      R : 4	No	5		
	<b><u>SANITARY FITTINGS</u></b>				
	<u>"Old World"</u>				
12	Old World Concretes twin laundry tub, size 1080 x 705mm wide with reinforcing to extend from below supports, mortared into position and onto trough.  B : 0      C : 0      J : 0      O : 0  P : 1      R : 0	No	1		
	<b>Carried to Collection</b>				
	Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE			R	

	<u>Vaal or similar approved:</u>				
13	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with two tapholes supported on and incl. two bolts (code 84467Z0)	B : 2  P : 0	C : 1  R : 0	J : 4  O : 0	No 7
14	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246) comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern (Code: 710631), including lid, fitments and purpose-made chromium plated side flush lever and B2 economy double flap thermoset seat.	B : 0  P : 0	C : 0  R : 0	J : 1  O : 0	No 1
15	WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	B : 4  P : 0	C : 1  R : 0	J : 5  O : 0	No 10
16	Junior wash hand basin bolted to wall including all fittings and necessary pipework	B : 0  P : 0	C : 0  R : 0	J : 0  O : 8	No 8
17	Junior WC suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern	B : 0  P : 0	C : 0  R : 0	J : 0  O : 12	No 12
18	Vaal Sanitaryware 600 x 385 x 380mm Lavatera top inlet white vitreous china wall mounted urinal (Code: 705426WH) including 38mm chromium plated domical grating and chromium plated top inlet spreader (Code: 8542Z000), flush valve (by others - Recommended: Cobra FJ6000), fixed on and including two hanger brackets (Code: 8127Z000).	B : 0  P : 0	C : 2  R : 0	J : 0  O : 0	No 2
<b><u>WASTE UNIONS ETC</u></b>					
Carried to Collection					
Section No. 3 <b>BUILDING</b> Bill No. 10 <b>PLUMBING AND DRAINAGE</b>					
R					

19	<p><u>"Cobra Watertech"</u></p> <p>Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.</p> <p>B : 2      C : 1      J : 4      O : 4  P : 0      R : 0</p>	No	11		
20	<p><b><u>TRAPS ETC</u></b></p> <p><u>"Cobra Watertech"</u></p> <p>"Cobra Ref. 365/40" CP bottle trap</p> <p>B : 2      C : 1      J : 4      O : 4  P : 0      R : 0</p>	No	11		
21	<p>"Cobra Ref. 365/50" CP bottle trap</p> <p>B : 0      C : 2      J : 0      O : 0  P : 0      R : 0</p>	No	2		
22	<p><u>"Marley"</u></p> <p>40 x 300mm Sink combination for double bowl with deepseal "P" trap</p> <p>B : 0      C : 0      J : 0      O : 0  P : 1      R : 0</p>	No	1		
23	<p><b><u>TAPS, VALVES, ETC</u></b></p> <p>Cobra Watertech 15mm MI x FI x 75mm long extension piece with sliding wall flange (Code: 059-15).</p> <p>B : 0      C : 0      J : 0      O : 0  P : 2      R : 0</p>	No	2		
24	<p>Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).</p> <p>B : 6      C : 2      J : 10      O : 10  P : 2      R : 0</p>	No	30		
25	<p>Cobra Watertech chrome plated 15mm outlet x 215mm long with 27mm offset urinal flush pipe (Code: FJT5.5).</p> <p>B : 0      C : 2      J : 0      O : 0  P : 0      R : 0</p>	No	2		
	<b>Carried to Collection</b>				
	Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE			R	

26	Cobra Watertech 32mm cast brass gate valve (Code: 1001/125-32) parallel F x F threaded inlets, non-rising spindle and guided wedge.  B : 0      C : 0      J : 0      O : 0  P : 0      R : 2	No	2		
27	Cobra Watertech 15mm chrome plated demand bibtap (Code: KM2-202-15), manufactured in accordance to SANS 1808-66:2005.  B : 2      C : 1      J : 3      O : 3  P : 2      R : 0	No	11		
28	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).  B : 0      C : 0      J : 1      O : 1  P : 0      R : 0	No	2		
29	Cobra Watertech exposed urinal chrome plated Junior Flushmaster flushvalve (code: FJ6.000) with non-hold open feature, wall flange and 20mm "Ball-o-Stop" control inlet.  B : 0      C : 2      J : 0      O : 0  P : 0      R : 0	No	2		
<b><u>SANITARY PLUMBING</u></b>					
	<u>uPVC pipes</u>				
30	50mm Pipes  B : 2      C : 18      J : 24      O : 22  P : 1      R : 0	m	67		
31	110mm Pipes  B : 0      C : 10      J : 10      O : 15  P : 0      R : 0	m	35		
32	50mm Pipes laid in and including trenches not exceeding 1m deep  B : 0      C : 25      J : 20      O : 25  P : 0      R : 0	m	70		
<b>Carried to Collection</b>					
Section No. 3 <b>BUILDING</b> Bill No. 10 <b>PLUMBING AND DRAINAGE</b>					

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	<u>Extra over uPVC pipes for fittings</u>						
33	50mm BSP adaptor B : 0      C : 4      J : 2      O : 4 P : 0      R : 0		No	10			
34	50mm Bend B : 2      C : 5      J : 7      O : 12 P : 1      R : 0		No	27			
35	50mm Access bend B : 2      C : 4      J : 2      O : 4 P : 0      R : 0		No	12			
36	50mm Access junction B : 2      C : 0      J : 1      O : 3 P : 0      R : 0		No	6			
37	50mm Junction B : 2      C : 4      J : 7      O : 7 P : 1      R : 0		No	21			
38	110mm Bend B : 4      C : 3      J : 8      O : 12 P : 0      R : 0		No	27			
39	110mm Junction B : 4      C : 1      J : 6      O : 6 P : 0      R : 0		No	17			
40	110mm Pan connector B : 4      C : 1      J : 6      O : 6 P : 0      R : 0		No	17			
41	110mm Access bend B : 0      C : 0      J : 1      O : 3 P : 0      R : 0		No	4			
42	110mm Double junction B : 0      C : 0      J : 1      O : 0 P : 0      R : 0		No	1			
43	110mm Acess junction B : 0      C : 0      J : 0      O : 3 P : 0      R : 0		No	3			
		<b>Carried to Collection</b>					
	Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE					R	

44	110mm "GI Two-way" vent valve  B : 0      C : 0      J : 1      O : 0  P : 0      R : 0	No	1		
<b><u>WATER SUPPLIES</u></b>					
<u>The following in trenches for pipes (pipes e/m)</u>					
45	Excavation not exceeding 2m deep  B : 34      C : 28      J : 19      O : 28  P : 0      R : 90	m3	199		
46	<b><u>Extra over trench and hole excavations in earth for excavation in soft rock</u></b>  B : 5      C : 4      J : 3      O : 4  P : 0      R : 14	m3	30		
47	Extra over trench and hole excavations in earth for excavation in hard rock  B : 10      C : 8      J : 6      O : 8  P : 0      R : 27	m3	60		
48	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep  B : 114      C : 92      J : 64      O : 92  P : 0      R : 300	m2	662		
49	Backfilling to trenches, holes, with materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density  B : 34      C : 28      J : 19      O : 28  P : 0      R : 90	m3	199		
<u>Class 12 uPVC pipes with solvent welded joints</u>					
50	22mm Pipes laid in and including trenches not exceeding 1m deep icnl. all excavations, backfilling, etc.  B : 57      C : 46      J : 32      O : 46  P : 0      R : 150	m	331		
<b>Carried to Collection</b>					
Section No. 3 <b>BUILDING</b> Bill No. 10 <b>PLUMBING AND DRAINAGE</b>					

	<u>Extra over class 12 uPVC pipes for fittings with solvent welded joints</u>					
51	22mm Bend B : 5      C : 4      J : 3      O : 6 P : 0      R : 15	No	33			
52	22mm Junction B : 3      C : 2      J : 1      O : 6 P : 0      R : 8	No	20			
	<u>"Polylink" polypropylene pipes</u>					
53	15mm Pipes B : 12      C : 10      J : 28      O : 10 P : 0      R : 0	m	60			
	<u>Extra over "Polylink" polypropylene pipes for fittings</u>					
54	15mm Fittings B : 0      C : 4      J : 4      O : 9 P : 0      R : 0	No	17			
	<u>Class 16 uPVC pressure pipes with solvent welded joints</u>					
55	32mm Pipes laid in and including trenches not exceeding 1m deep B : 0      C : 0      J : 0      O : 0 P : 0      R : 81	m	81			
	<u>Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints</u>					
56	32mm Bend B : 0      C : 0      J : 0      O : 0 P : 0      R : 4	No	4			
57	32mm Tee B : 0      C : 0      J : 0      O : 0 P : 0      R : 3	No	3			
	<u>Class 0 copper pipes</u>					
58	15mm Pipes B : 9      C : 13      J : 27      O : 27 P : 0      R : 0	m	76			
	<b>Carried to Collection</b>					
	Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE				R	

59	22mm Pipes B : 4      C : 8      J : 12      O : 8 P : 0      R : 0	m	32		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
60	15mm Fittings B : 22      C : 13      J : 32      O : 30 P : 0      R : 0	No	97		
61	22mm Fittings B : 3      C : 4      J : 5      O : 4 P : 0      R : 0	No	16		
	<u>Galvanised steel pipes:</u>				
62	20mm Pipes chased into brick walls B : 3      C : 0      J : 0      O : 0 P : 1      R : 0	m	4		
	<u>Extra over galvanised steel pipes for steel fittings:</u>				
63	20mm Fittings B : 6      C : 0      J : 0      O : 0 P : 3      R : 0	No	9		
	<b><u>DRIP TRAYS, TANKS, ETC</u></b>				
	<u>"JoJo" or equally approved</u>				
64	10000 Litre polyethylene Water Tank B : 0      C : 0      J : 0      O : 0 P : 0      R : 4	No	4		
	<b><u>"ENVIRO LOO" or equally approved</u></b>				
65	Standard enviro-loo system type 1040 industrial CER/ABS-V1 (code FG-1040 STDCA/A) (Supply and install) B : 5      C : 0      J : 0      O : 0 P : 5      R : 0	No	10		
66	Enviro-loo urinal with 5 pans type FG-862B (Supply and install) B : 0      C : 0      J : 0      O : 0 P : 1      R : 0	No	1		
	<b>Carried to Collection</b>				
	Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE			R	



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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.3</u></b>			
	<b><u>BILL NO.11</u></b>			
	<b><u>GLAZING</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>GLAZING TO STEEL WITH PUTTY</u></b>			
	<u>6.38mm Obscure safety glass</u>			
1	Panes not exceeding 0,1 m <sup>2</sup>  B : 6      C : 2      J : 3      O : 4 P : 5      R : 0	m <sup>2</sup>	20	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3 BUILDING Bill No. 11 GLAZING		R	

Item No	Quantity	Rate	Amount
<b><u>SECTION NO.3</u></b>			
<b><u>BILL NO.12</u></b>			
<b><u>PAINTWORK</u></b>			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<b><u>Previously painted plastered surfaces</u></b>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<b><u>Previously painted metal surfaces</u></b>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<b><u>Previously painted wood surfaces</u></b>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>ON FIBRE-CEMENT</u></b>			
Carried to Collection			
Section No. 3 BUILDING Bill No. 12 PAINTWORK			
R			

<u>Plascon Sure Coat Gloss Enamel to exterior new fibre cement.</u> Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.						
1	On fascias and barge boards			m2	62	
B : 26      C : 6      J : 10      O : 9 P : 10      R : 0						
<b><u>ON METAL</u></b>						
<u>Plascon Velvaglo Satin to interior new mild steel.</u> Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Metalcare Mild Steel Primer (UC 501) with an overcoating time of 16 hours and finish with two coats Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.						
2	On door frames			m2	24	
B : 0      C : 2      J : 8      O : 8 P : 6      R : 0						
3	On windows with burglar bars			m2	28	
B : 0      C : 3      J : 7      O : 8 P : 9      R : 0						
4	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )			m2	45	
B : 0      C : 3      J : 19      O : 19 P : 3      R : 0						
<b><u>ON WOOD</u></b>						
Carried to Collection						
Section No. 3 BUILDING Bill No. 12 PAINTWORK						
R						

## Carried to Collection

Section No. 3  
BUILDING  
Bill No. 12  
PAINTWORK

<p><u>Plascon Velvaglo Satin to existing solvent based coated exterior mild steel (RD 683). Remove all paint and rust completely. Apply Plascon Rust Remover (RR 1) to rusted areas and scrub with hard bristle brush to remove rust. Rinse thoroughly with tap water. Repeat process if rust is not removed. Dry surface rapidly to prevent flash rust formation. In areas where rust cannot be removed completely, remove all loose rust by scraping and wire brushing, then apply Plascon Rusist Rust Converter (EMS 21) copiously, but only to areas where tightly adherent rust remains. Allow coating to turn black (minimum 4 hours) before overcoating. Remove Rust Converter with water where it has not reacted and turned black. Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1) or Professional Undercoat (PU 800) to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>						
7	On door frames	B : 0.0	C : 0.0	J : 0.0	O : 0.0	m2
		P : 0.0	R : 0.0			
8	On windows with burglar bars	B : 11	C : 0	J : 0	O : 0	m2
		P : 0	R : 0			11
9	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )	B : 15	C : 0	J : 0	O : 0	m2
		P : 0	R : 0			15
Carried to Collection						
Section No. 3 BUILDING Bill No. 12 PAINTWORK				R		

Plascon Sure Coat Gloss Enamel to existing water based coated exterior fibre cement. Remove loose and peeling paint back to a firm edge by scraping, sanding or other suitable means. Feather the edges with 100 grit sandpaper and ensure surface is dust free. Remove surface contaminants using Polycell Sugar Soap solution - 500 g Polycell Sugar Soap Powder (501703) dissolved in 5 litres water, or Polycell Sugar Soap Liquid (5018010). For stubborn contaminants use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry. Ensure surfaces are clean, dry and sound. Moisture content not more than 8% measured on a Doser Hygrometer BD2 scale (or equivalent) before painting. Apply Plascon Plaster Primer (UC 56) or Professional Plaster Primer (PP 700) to bare and repaired areas. Allow 16 hours to dry. Finish with two coats Sure Coat Gloss Enamel (EPL) with 1 hour drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.

10 On fascias and barge boards

B : 0.0      C : 0.0      J : 0.0      O : 0.0  
 P : 0.0      R : 0.0

m<sup>2</sup>

**Carried to Collection**

Section No. 3  
 BUILDING  
 Bill No. 12  
 PAINTWORK

R

TMT-LDOE2023/24-LPCL15H  
 THE MVULA TRUST  
 LDOE2023/2024 WATER & SANITATION  
 XIHOKO PRIMARY SCHOOL

Section No. 3 BUILDING Bill No. 12 PAINTWORK <b><u>COLLECTION</u></b>	Page No	Amount
Total Brought Forward from Page No.	89	-----
	90	-----
	91	-----
	92	-----
	93	-----
<b>Carried Forward to Summary of Section No. 3</b>		
Section No. 3 BUILDING Bill No. 12 PAINTWORK		R

Bill No	Section No. 3 BUILDING <b><u>SECTION SUMMARY - BUILDING</u></b>	Page No	Amount
1	FOUNDATIONS	49	
2	CONCRETE, FORMWORK & REINFORCEMENT	54	
3	MASONRY	59	
4	WATERPROOFING	60	
5	ROOF COVERINGS, ETC	63	
6	CARPENTRY AND JOINERY	67	
7	IRONMONGERY	71	
8	METALWORK	75	
9	PLASTERING	76	
10	PLUMBING AND DRAINAGE	87	
11	GLAZING	88	
12	PAINTWORK	94	
Carried to Final Summary			
Section No. 3 BUILDING			R

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.4</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>CONCRETE APRONS.</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>APRONS AROUND BUILDINGS</u></b>			
	<u>Compaction of surfaces</u>			
1	Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	173	
	B : 67      C : 19      J : 30      O : 27			
	P : 31      R : 0			
	<u>Weedkiller mixed in accordance to supplier's specifications</u>			
2	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	143	
	B : 37      C : 19      J : 30      O : 27			
	P : 31      R : 0			
	<u>Soil insecticide</u>			
3	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	143	
	B : 37      C : 19      J : 30      O : 27			
	P : 31      R : 0			
	<u>15 MPa/19mm concrete</u>			
4	Aprons cast in panels to falls	m3	19	
	B : 5      C : 2      J : 4      O : 3			
	P : 4      R : 0			
	<b>Carried to Collection</b>			
	Section No. 4 EXTERNAL WORKS Bill No. 1 CONCRETE APRONS			R

5	Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.	m	131	
	B : 25      C : 19      J : 30      O : 27			
	P : 31      R : 0			
<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	143	
	B : 37      C : 19      J : 30      O : 27			
	P : 31      R : 0			
<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	156	
	B : 50      C : 19      J : 30      O : 27			
	P : 31      R : 0			
<b><u>REINFORCEMENT</u></b>				
<u>Fabric reinforcement</u>				
8	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m <sup>2</sup> with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	143	
	B : 37      C : 19      J : 30      O : 27			
	P : 31      R : 0			
<b>Carried to Collection</b>				
Section No. 4				
EXTERNAL WORKS				
Bill No. 1				
CONCRETE APRONS				
R				



Item No		Quantity	Rate	Amount
	<b><u>SECTION NO 4</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>PAVED WALKWAYS, ETC,</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Materials and workmanship must be in accordance to the following SABS 1200 specifications:			
	C - Site clearance			
	D - Earthworks			
	DM - Earthworks (Roads, subgrade)			
	M - Roads (General)			
	ME - Sub-base			
	MF - Base			
	MK - Kerb and Channeling			
	MM - Ancillary Roadworks			
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	886	
	<u>Open face excavation in earth over sloping site</u>			
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m3	51	
3	Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	51	
	<b>Carried to Collection</b>			R
	Section No. 4			
	EXTERNAL WORKS			
	Bill No. 2			
	PAVED WALKWAYS			

4	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	76		
5	Rip and scarify ground level to a depth of 150mm and consolidate to 100% mod. AASHTO density (minimum CBR 3)	m2	505		
<b><u>Paving layers</u></b>					
The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.					
	Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit				
6	150mm Selected filling previously set aside compacted to 93% mod. AASHTO density	m3	76		
7	150mm Imported G5 material compacted to 93% mod. AASHTO density	m3	51		
<b><u>Prescribed density tests on filling</u></b>					
8	"Mod. AASHTO Density" test	No	30		
<b><u>PAVING</u></b>					
<b><u>Interlocking paving</u></b>					
9	Bosun concrete Medium Urban paver colour Autumn-blend, size 200 x 150 x 60mm thick manufactured in accordance with SANS 1058:2012, laid in stretcher bond in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m2	505		
10	Weed-killing treatment of surface under paving	m2	505		
<b>Carried to Collection</b>					
Section No. 4 <b>EXTERNAL WORKS</b> Bill No. 2 PAVED WALKWAYS					

11	Precast concrete figure 12 kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs (PC Amount R150-00/m VAT excl.)	m	761		
12	Straight cutting units to fit edge restraints	m	761		
<u>Sundries</u>					
13	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	761		

**Carried to Collection**

Section No. 4  
 EXTERNAL WORKS  
 Bill No. 2  
 PAVED WALKWAYS

Section No. 4 EXTERNAL WORKS Bill No. 2 PAVED WALKWAYS <b><u>COLLECTION</u></b>	Page No	Amount
Total Brought Forward from Page No.	99	
	100	
	101	
<b>Carried Forward to Summary of Section No. 4</b>	R	
Section No. 4 EXTERNAL WORKS Bill No. 2 PAVED WALKWAYS		

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.4</u></b>			
	<b><u>BILL NO.3</u></b>			
	<b><u>FENCING AROUND WATER TANK, ETC.</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<b><u>EXCAVATIONS</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m <sup>2</sup>	72	
	<b><u>FENCING</u></b>			
	<u>Steel palisade fence</u>			
2	Palisade fence 1800mm high comprising the 35 x 35 x 3mm wall thickness profile vertical pales at 152mm centres with top of pale shaped to form a spearhead including 50 x 50 x 5mm angle section continuous top and bottom rail bolted to 75 x 75 x 3mm galvanised poles at 1500mm centres including concrete bases	m	24	
	<b><u>ACCESS GATES</u></b>			
3	Pedestrian gate size 1500 x 1800mm high including rectangular tubes, flat bars, steel angles, etc, (PC Amount R2 000-00 each VAT excl. supplied and delivered to site)	No	1	
	<b>Carried to Collection</b>			
	Section No. 4 EXTERNAL WORKS Bill No. 3 FENCING AROUND WATER TANK		R	

4	600mm Locking chain with 50mm links including 65mm padlock	No	1		
<b><u>PAINTING</u></b>					
	<p><u>Plascon Super Universal Enamel to exterior new mild steel. Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Metalcare Mild Steel Primer (UC 501) with an overcoating time of 16 hours and finish with two coats Super Universal Enamel (NY 1/G) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>				
5	On rails, bars, pipes	m2	86		

**Carried to Collection**

Section No. 4  
**EXTERNAL WORKS**  
Bill No. 3  
**FENCING AROUND WATER TANK**



Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.4</u></b>			
	<b><u>BILL NO.4</u></b>			
	<b><u>FENCING AROUND GRADE R TOILETS</u></b>			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m <sup>2</sup>	160	
	<b><u>FENCING</u></b>			
	<u>Hot dipped galvanised steel palisade fencing:</u>			
2	Palisade fence 1800mm high comprising the 35 x 35 x 3mm wall thickness profile vertical pales at 152mm centres with top of pale shaped to form a spearhead including 50 x 50 x 5mm angle section continuous top and bottom rail bolted to 75 x 75 x 3mm galvanised poles at 1500mm centres including concrete bases	m	80	
	<b><u>ACCESS GATES</u></b>			
3	Pedestrian gate size 1500 x 1800mm high including rectangular tubes, flat bars, steel angles, etc, (PC Amount R2 000-00 each VAT excl. supplied and delivered to site)	No	1	
4	600mm Locking chain with 50mm links including 65mm padlock	No	1	
	<b><u>PAINTING</u></b>			
		<b>Carried to Collection</b>		
	Section No. 4 EXTERNAL WORKS Bill No. 4 FENCING AROUND GRADE R TOILETS, ETC			R

<p><u>Plascon Super Universal Enamel to exterior new mild steel. Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Metalcare Mild Steel Primer (UC 501) with an overcoating time of 16 hours and finish with two coats Super Universal Enamel (NY 1/G) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>			
5	On rails, bars, pipes	m2	288
<b>Carried to Collection</b>		R	

Section No. 4  
**EXTERNAL WORKS**  
Bill No. 4  
**FENCING AROUND GRADE R TOILETS, ETC**

Section No. 4 EXTERNAL WORKS Bill No. 4 FENCING AROUND GRADE R TOILETS, ETC	Page No	Amount
Total Brought Forward from Page No.	106	
	107	
<b>Carried Forward to Summary of Section No. 4</b>		
Section No. 4 EXTERNAL WORKS Bill No. 4 FENCING AROUND GRADE R TOILETS, ETC	R	

Item No		Quantity	Rate	Amount
<b><u>SECTION NO.4</u></b>				
<b><u>BILL NO.5</u></b>				
<b><u>SEPTIC TANKS, ETC.</u></b>				
<b><u>SITE CLEARANCE ETC</u></b>				
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	31	
<b><u>EXCAVATION, FILLING, ETC</u></b>				
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	49	
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
3	Holes	m3	13	
	<u>Extra over all excavations for carting away</u>			
4	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	44	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	48	
6	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding not exceeding 3m deep	m2	14	
<b>Carried to Collection</b>				
Section No. 4 EXTERNAL WORKS Bill No. 5 SEPTIC TANK				
R				

<b><u>REINFORCED CONCRETE</u></b>			
<u>15MPa/19mm concrete</u>			
10	Surface blinding under surface beds	m3	1
<u>30MPa/19mm concrete</u>			
11	Bottom slab of septic tanks	m3	4
12	Slab over septic tank	m3	3
<b><u>CONCRETE SUNDRIES</u></b>			
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
13	Surface beds, slabs, etc	m2	18
14	Surface beds, slabs, etc to falls	m2	18
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
<b>Carried to Collection</b>			
Section No. 4 EXTERNAL WORKS Bill No. 5 SEPTIC TANK			

	<u>Permanent formwork to soffits</u>				
15	Slab over septic tank	m2	13		
	<u>Boxing in rough formwork to form</u>				
16	Opening size 600 x 600mm through 170mm slab	No	2		
	<u>Smooth formwork to sides</u>				
17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	62		
	<b><u>REINFORCEMENT</u></b>				
	<u>Fabric reinforcement</u>				
18	Steedale Mesh standard square fabric mesh, nominal mass 3,95 kg/m <sup>2</sup> with nominal 12mm thick wires and 200 x 200mm pitch (code 888), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	35		
	<b><u>MASONRY</u></b>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
19	One brick walls	m2	58		
	<u>Brickwork reinforcement</u>				
20	150mm Wide reinforcement built in horizontally	m	688		
	<b><u>BRICKWORK SUNDRIES</u></b>				
21	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	5		
	<b><u>PLASTERING</u></b>				
	<u>Watertight cement plaster on brickwork</u>				
22	On walls	m2	57		
	<b>Carried to Collection</b>				
	Section No. 4				
	EXTERNAL WORKS				
	Bill No. 5				
	SEPTIC TANK				

<b>SCREEDS</b>			
<u>Screeds on concrete</u>			
30mm Thick around distribution chambers etc.	m2		4
<b>PLUMBING AND DRAINAGE</b>			
<u>uPVC pipes</u>			
110mm Pipes	m		1
<u>Extra over uPVC pipes for fittings</u>			
110mm Tee	No		2
<u>Cover, etc</u>			
600 x 600mm Type 2A cast iron single seal manhole cover and frame	No		4
Lifting key for manhole cover	No		2
<b>PAINTWORK</b>			
<u>Prepare surfaces and apply one layer "sikaguard 720" and three coats "sikaguard 63N" polyurethane finish</u>			
On walls	m2		60
<b>Carried to Collection</b>			
Section No. 4			
EXTERNAL WORKS			
Bill No. 5			
SEPTIC TANK			

Section No. 4 EXTERNAL WORKS Bill No. 5 SEPTIC TANK <b><u>COLLECTION</u></b>	Page No	Amount
Total Brought Forward from Page No.	109	
	110	
	111	
	112	
<b>Carried Forward to Summary of Section No. 4</b>		
Section No. 4 EXTERNAL WORKS Bill No. 5 SEPTIC TANK		R

Item No		Quantity	Rate	Amount
<b><u>SECTION NO.4</u></b>				
<b><u>BILL NO.6</u></b>				
<b><u>FRENCH DRAINS</u></b>				
<b><u>EXCAVATION, FILLING, ETC</u></b>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Holes	m3	15	
<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>				
2	Holes	m3	8	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
3	Soft rock	m3	1	
4	Hard rock	m3	1	
<u>Extra over all excavations for carting away</u>				
5	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	15	
<u>Risk of collapse of excavations</u>				
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	20	
7	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding not exceeding 3m deep	m2	20	
<b>Carried to Collection</b>				
Section No. 4 EXTERNAL WORKS Bill No. 6 FRENCH DRAIN				
R				

Keeping excavations free of water			
8	Keeping excavations free of all water other than subterranean water		Item
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site (not compacted)</u>			
9	On top of french drain as soil cover	m3	8
<b><u>FILTER FABRIC</u></b>			
<u>"Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions</u>			
0	"Kaymat U14" around stone filling in sub-soil drain trenches	m2	34
<u>20mm Graded stone filling or similar approved</u>			
1	In holes	m3	6
<u>200 - 300mm Diameter clean washed stone filling or similar approved by engineer</u>			
2	In holes	m3	9
<b><u>WATERPROOFING</u></b>			
<u>One layer of 250 micron "Tarkon USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
3	On top of pipes as protection of joints	m2	4
<u>uPVC pipes</u>			
4	110mm Perforated pipes	m	5
<b>Carried to Collection</b>			
Section No. 4			
EXTERNAL WORKS			
Bill No. 6			
FRENCH DRAIN			



Item No		Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>				
<b><u>BILL NO. 7</u></b>				
<b><u>DRINKING FOUNTAIN, ETC.</u></b>				
<b><u>EXCAVATIONS</u></b>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Holes	m3	1	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
2	Soft rock	m3	0.026	
3	Hard rock	m3	0.051	
<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	0.4	
<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	3	
<u>Keeping excavations free of water</u>				
6	Keeping excavations free of water		Item	
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<u>15MPa/19mm concrete</u>				
7	Surface blinding under footings and bases	m3	0.07	
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
Carried to Collection				
Section No. 4 EXTERNAL WORKS Bill No. 7 DRINKING FOUNTAIN ETC.				

8	<u>30MPa/19mm concrete</u> Bases		m3	0.3	
9	<b>REINFORCED CONCRETE</b> <u>30MPa/19mm concrete</u> Drinking fountains		m3	0.2	
10	<b>CONCRETE SUNDRIES</b> <u>Finishing top surfaces of concrete smooth with a steel trowel</u> On top of bollards to form a 25mm high rounded concrete cap 300mm diameter		No	3	
11	<b>SMOOTH FORMWORK</b> <u>Special formwork to circular columns</u> 300mm Diameter circular PVC columns 1000mm high buried 150mm deep as formwork to concrete drinking fountains (concrete e/m)		No	3	
12	<b>REINFORCEMENT</b> <u>Mild steel reinforcement to structural concrete work</u> 8mm Diameter bars	t		0.02	
	<b>PLUMBING AND DRAINAGE</b>				
	<b>WATER SUPPLIES</b>				
13	<u>Class 0 copper pipes</u> 15mm Pipes		m	4.05	
14	<u>Extra over class 0 copper pipes for capillary fittings</u> 15mm Fittings		No	3	
	<b>Carried to Collection</b>				
	Section No. 4 EXTERNAL WORKS Bill No. 7 DRINKING FOUNTAIN ETC.				R

<b><u>TAPS, VALVES, ETC</u></b>			
15	Cobra Watertech 15mm chrome plated metered bibtap (Code: KM2-200) with flow straightner and non-hold open feature, manufactured in accordance with SANS 1808-9:2001.	No	3
16	Cobra Watertech 15mm cast brass gate valve (Code: 1001-125-15) parrallel F x F threaded inlets, non-rising spindle and guided wedge.	No	3
<b>Carried to Collection</b>			R
Section No. 4 EXTERNAL WORKS Bill No. 7 DRINKING FOUNTAIN ETC.			

Section No. 4			
EXTERNAL WORKS			
Bill No. 7			
DRINKING FOUNTAIN ETC.			
<b><u>COLLECTION</u></b>			
		<b>Page No</b>	<b>Amount</b>
Total Brought Forward from Page No.		117	
		118	
		119	
<b>Carried Forward to Summary of Section No. 4</b>			
Section No. 4			
EXTERNAL WORKS			
Bill No. 7			
DRINKING FOUNTAIN ETC.			
R			

Item No		Quantity	Rate	Amount
<b><u>SECTION NO 4</u></b>				
<b><u>BILL NO 8</u></b>				
<b><u>STORM WATER CONTROL</u></b>				
<b><u>SITE CLEARANCE ETC</u></b>				
<u>Site clearance</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	300	
<b><u>BULK EXCAVATION, FILLING, ETC</u></b>				
<u>Excavation in earth</u>				
2	Excavate in earth below natural, reduced or made up ground level , not exceeding 2m deep, to reduced levels under aprons, etc	m3	60	
<u>Extra over bulk excavation in earth for excavation in</u>				
3	Soft rock	m3	5	
4	Hard rock	m3	2	
<u>Extra over all excavations for carting away</u>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	30	
<u>Keeping excavations free of water</u>				
6	Keeping excavations free of all water other than subterranean water	Item		
<b>Carried to Collection</b>				
Section No. 4 EXTERNAL WORKS Bill No. 8 STORMWATER CONTROL				
R				

	<u>Compaction of surfaces</u>			
7	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO densityy	m2	300	
8	<u>Soil poisoning</u>  Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1m2	m2	300	
	<b><u>Unreinforced Concrete</u></b>			
	<u>25Mpa/19mm concrete</u>			
9	25Mpa/19mm Mass concrete in V-shaped channel 1200mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with 2: 1 cement mortar, with and including one layer of ref.395 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated sailboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	300	
10	Extra for fair open end	No	10	
11	Extra for fair stopped end	No	10	
12	Extra for angle intersection	No	7	
13	Extra over for forming 100mm thick spreader fanning out to 1200mm width at furthest end with seven (7No) concrete bricks cast in as brick-on-end diffusers in three rows including working off concrete to a smooth finish	No	1	
	<b>Carried to Collection</b>			R
Section No. 4 EXTERNAL WORKS Bill No. 8 STORMWATER CONTROL				





	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
8	Backfilling to trenches, holes, etc	m3	8	
<b><u>SOIL POISONING</u></b>				
	<u>Soil poisoning mixed in accordance to supplier specifications</u>			
9	To bottoms and sides of trenches etc	m2	61	
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<u>25MPa/19mm concrete</u>			
10	Strip footings	m3	4	
11	Platform surface beds cast in panels	m3	1	
<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>				
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
12	Surface beds, slabs, etc (rainwater tanks)	m2	12	
<b><u>REINFORCEMENT</u></b>				
Carried to Collection				
Section No. 4 EXTERNAL WORKS Bill No. 9 RAINWATER TANKS				

	<u>Fabric reinforcement</u>				
13	Steeddale Mesh standard square fabric mesh, nominal mass 3,95 kg/m <sup>2</sup> with nominal 5,6mm thick wires and 200 x 200mm pitch (code 395), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (Bottom slab of enviroloo toilets)	m2	12		
14	<b>TEST CUBES</b>  Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	6		
	<b>BRICKWORK</b>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
15	One brick walls	m2	16		
	<b>BRICKWORK SUNDRIES</b>				
	<u>Brickwork reinforcement</u>				
16	150mm Wide reinforcement built in horizontally	m	81		
	<b>FACE BRICKWORK</b>				
	<u>Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
17	Extra over brickwork for face brickwork	m2	6		
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R5 000-00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>				
18	Coping on top of one brick wall	m	24		
	<b>WATERPROOFING</b>				
		<b>Carried to Collection</b>			
	Section No. 4 EXTERNAL WORKS Bill No. 9 RAINWATER TANKS			R	

<u>One layer of 375 micron Consol Plastic Brikgrip DPC embossed damp proof course</u>			
In walls	m2	6	
<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
Under surface beds	m2	12	
<b><u>DRIP TRAYS, TANKS, ETC</u></b>			
<u>"JoJo" or equally approved</u>			
2500 Litre polyethylene Water Tank	No	4	
Hole Through top of tank lid for 100m diameter pipe	No	4	
<b>Carried to Collection</b>			
Section No. 4			R
EXTERNAL WORKS			
Bill No. 9			
RAINWATER TANKS			

Section No. 4	EXTERNAL WORKS	Bill No. 9	RAINWATER TANKS	<b><u>COLLECTION</u></b>	Page No	Amount
				Total Brought Forward from Page No.	124	-----
					125	-----
					126	-----
					127	-----
<b>Carried Forward to Summary of Section No. 4</b>						
Section No. 4	EXTERNAL WORKS	Bill No. 9	RAINWATER TANKS		R	

Bill No	Section No. 4  EXTERNAL WORKS  <b><u>SECTION SUMMARY - EXTERNAL WORKS</u></b>	Page No	Amount
1	CONCRETE APRONS	98	
2	PAVED WALKWAYS	102	
3	FENCING AROUND WATER TANK	105	
4	FENCING AROUND GRADE R TOILETS, ETC	108	
5	SEPTIC TANK	113	
6	FRENCH DRAIN	116	
7	DRINKING FOUNTAIN ETC.	120	
8	STORMWATER CONTROL	123	
9	RAINWATER TANKS	128	
<b>Carried to Final Summary</b>			
Section No. 4  EXTERNAL WORKS			R

Item No		Quantity	Rate	Amount
<b><u>SECTION NO 5</u></b>				
<b><u>BILL NO 1</u></b>				
<b><u>PROVISIONAL AMOUNTS ETC</u></b>				
<b><u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<u>Reverse Osmosis Treatment Plant</u>				
1	Provide the sum of R350 000-00 (three hundred and fifty thousand five hundred rands) for reverse osmosis treatment plant	Item		350 000.00
2	Allow for profit		%	
3	Allow for Attendance		%	
<u>Refurbishment and equipping of existing borehole</u>				
4	Provide the sum of R120 000-00 (One hundred and twenty thousand rands) for the refurbishing and equipping of existing borehole	Item		120 000.00
5	Allow for profit		%	
6	Allow for Attendance		%	
<u>New Borehole Development</u>				
7	Provide the sum of R 500 000,00 (Five hundred thousand rands) for the drilling of a new borehole, Installation of pumps, pressure pump cage, piping and Installation of 4 x 10000 Tanks with steel elevated tank stands	Item		500 000.00
8	Allow for profit		%	
<b>Carried to Collection</b>				
Section No. 5 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS				

**TMT-LDOE2023/24-LPCL15H**  
**THE MVULA TRUST**  
**LDOE2023/2024 WATER & SANITATION**  
**XIHOKO PRIMARY SCHOOL**

Item	%	%	%	70 000.00
9 Allow for Attendance				
<b><u>Mobile Toilets Hire</u></b>				
10 Provide the sum of R 70,000,00 (Seventy thousand rands) for the hire of Four (4) Mobile chemical toilets including maintenance twice in a month for a period of two months				
11 Allow for profit				
12 Allow for Attendance				
<b>Carried to Collection</b>				
Section No. 5 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS				R



Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	34	
2	ALTERATIONS	39	
3	BUILDING	95	
4	EXTERNAL WORKS	129	
5	PROVISIONAL SUMS	132	
	Sub-Total (Excluding Contingencies & VAT)		R
	<b><u>CONTINGENCY SUM</u></b>		
	<b>ALLOW 10% OF THE TENDER AMOUNT</b> to be used as Contingencies for building work, to be used as directed by the Principal Agent and deducted in whole or in part if not required		
	Sub Total (Excluding VAT)		R
	Value Added Tax		R
	<b>TOTAL (VAT INCL.) CARRIED TO TENDER FORM</b>		R
	<b>Carried to Form of Tender</b>		R

**Location List Print**

XIH-BOQ : XIHOKO PRIMARY SCHOOL

Date: 2023/07/04

Page: 1

Location Code	Description	Multiplier	Measurable?
	Total Project Area		
4	DRINKING FOUNTAINS	1	Yes
6	WATER TANK FENCE	1	Yes
9	FENCE AROUND GRADE R	1	Yes
A	PRELIMINARIES AND GENERAL	1	Yes
B	RENOVATIONS	1	Yes
C	SM1	1	Yes
J	SFD5	1	Yes
O	GRD5	1	Yes
P	M5	1	Yes
Q	PROVISIONAL SUMS	1	Yes
R	EXTERNAL WORKS	1	Yes
S	PERIMETER FENCE	1	Yes
V	PAVING AND PATHWAYS	1	Yes
Y	FINAL SUMMARY	1	Yes

\*\*\* End of Report\*\*\*