

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>			
<p>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</p> <p>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</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>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</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>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</p>			
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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:  - monitor and control progress and scheduling  - monitor all contract conditions, and  - coordinate the efforts of the employer's agents, the contractor and subcontractors  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		
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7	Compliance with regulations (clause 7)			
	F:..... V:..... T:.....			
	<p>Sub-clause 7.3 added:</p> <p>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:</p> <p>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		
8	Works risk (clause 8)			
	F:..... V:..... T:.....			
		Item		
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9	Indemnities (clause 9) F:..... V:..... T:.....	Item		
10	Works insurances (clause 10) F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11) F:..... V:..... T:.....	Item		
12	Effecting insurance (clause 12) F:..... V:..... T:.....	Item		
13	NO CLAUSE	N/A		
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		
<b><u>Execution (A15-A23)</u></b>				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
16	Access to the works (clause 16) F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17) F:..... V:..... T:.....	Item		
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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:.....  <b><u>Completion (A24-A30)</u></b>	Item		
24	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	Penalty for non-completion (clause 30)  F:..... V:..... T:.....  <b><u>Payment (A31 - A35)</u></b>	Item		
31	Interim payment to the contractor (clause 31)  F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32)  F:..... V:..... T:.....  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	Item		
33	Recovery of expense and loss (clause 33)  F:..... V:..... T:.....	Item		
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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	
35	<p>Payment to other parties (clause 35)</p> <p>F:..... V:..... T:.....</p> <p><b><u>Cancellation (A36-A39)</u></b></p>	Item	
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		
	<b><u>Dispute (A40)</u></b>			
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item		
	<b><u>Substitute Provisions (A41)</u></b>			
41	State clauses (Clause 41) F:..... V:..... T:.....	Item		
	<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		
	<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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42.2.8 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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**Documents (B2)**

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

**The site (B3)**

51 Geotechnical investigation (B3.2)

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

Item

52 Inspection of the site (B3.3)

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

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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)  F:..... V:..... T:.....	Item	
54	Services - unknown (B3.8)  F:..... V:..... T:.....	Item	
55	Protection of trees etc (B3.9)  F:..... V:..... T:.....	Item	
56	Articles of value (B3.10)  F:..... V:..... T:.....	Item	
	<b><u>Management of contract (B4)</u></b>		
57	Inspection of adjoining properties etc (B3.11)  F:..... V:..... T:.....	Item	
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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) Option [A] shall apply F:..... V:..... T:.....	Item		
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75	Electricity (B7.3) <div style="text-align: right;"><b>Option [A] shall apply</b></div> F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) <div style="text-align: right;"><b>Option [A] shall apply</b></div> 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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82	<p>Payment of preliminaries (B10.2)</p> <p style="text-align: right;"><b>Option [B] shall apply</b></p> <p>F:..... V:..... T:.....</p>	Item		
83	<p>Adjustment of preliminaries (B10.3)</p> <p style="text-align: right;"><b>Option [A] shall apply</b></p> <p>F:..... V:..... T:.....</p>	Item		
84	<p>Payment certificate cash flow (B10.4)</p> <p>F:..... V:..... T:.....</p>	Item		
	<b><u>General (B11)</u></b>			
85	<p>Protection of works (B11.1)</p> <p>F:..... V:..... T:.....</p>	Item		
86	<p>Protection/isolation of existing/sectionally occupied works (B11.2)</p> <p>F:..... V:..... T:.....</p>	Item		
87	<p>Security of the Works (B11.3)</p> <p>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)</p> <p>F:..... V:..... T:.....</p>	Item		
88	<p>Notice before covering work (B11.4)</p> <p>F:..... V:..... T:.....</p>	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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12.1.1	Provisional bills of quantities (B2.2) The quantities are provisional:	No
12.1.2	Availability of construction documentation (B2.3) Construction documentation is not complete	No
12.1.3	Interest of agents (B2.4)	
12.1.4	Defined works area (B3.1)	
12.1.5	Geotechnical investigation (B3.2)	N/A
12.1.6	Existing premises occupied (B3.4)	
12.1.7	Previous work - dimensional accuracy (B3.4)	
12.1.8	Previous work - defects (B3.5)	
12.1.9	Services - known (B3.7)	
12.1.10	Protection of trees (B3.9)  All trees should be protected and only on instruction of the Principal Agent may any trees be removed	
12.1.12	Enclosure of the works (B6.2)	
12.1.11	Inspection of adjoining properties (B3.11)	
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12.1.22 Protection of the works (B11.1)

N/A

12.1.23 Disturbance (B11.5)

N/A

12.1.24 Environmental Disturbance (B11.6)

N/A

**Post tender information (B12.2)**

12.2.1 Payment of preliminaries

Alternative selected: B

12.2.2 Adjustment of preliminaries

Alternative selected: A

12.2.3 Additional agreed preliminaries items

N/A

**SECTION C: SPECIFIC PRELIMINARIES**

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

98 **Site instructions**

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

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

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99	Black economic empowerment and training F:..... V:..... T:.....	Item		
100	Proprietary branded products F:..... V:..... T:.....	Item		
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:.....  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	Item		
102	Contract instructions F:..... V:..... T:.....  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	Item		
103	Labour record F:..... V:..... T:.....  At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
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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		
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		
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		
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107	Co-operation of contractor for cost management	Item	R
F:..... V:..... T:.....	<p>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</p>		
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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>				
		Item			
	<b>Carried to Collection</b>			R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES & GENERAL				

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		
<b>Carried to Collection</b>			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES & GENERAL				

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>			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES & GENERAL				

123	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid -19)	Item		
124	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)	Item		
125	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of digital infrared non-contact body thermometer (Covid -19, minimum of two per site entrance)	Item		
126	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of perspex screens for office staff (Covid -19, minimum size 600 x 500mm)	Item		
127	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of signage, including Covid -19 related signage	Item		
128	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of full time construction health and safety officer (SACPCMP Registered)	Item		
<b>Carried to Collection</b>			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES & GENERAL				

129	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations	Item		
130	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Medical screenings, examinations, etc in terms of Covid-19 regulations	Item		
131	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Induction training, including Covid-19 training	Item		
132	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Provision of first aid boxes to GSR requirements	Item		
133	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc	Item		
134	Provision of personal protective equipment (PPE) F:..... V:..... T:..... Submission of health and safety file	Item		
<b>Carried to Collection</b>			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES & GENERAL				

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.

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.

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

## SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

**Carried to Collection**

Section No. 1  
PRELIMINARIES AND GENERAL  
Bill No. 1  
PRELIMINARIES & GENERAL

Item

R





[illegible]

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>			
	<b>Carried to Collection</b>		R	
	<p>Section No. 2</p> <p>ALTERATIONS</p> <p>Bill No. 1</p> <p>ALTERATIONS</p>			

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	
	<div style="display: flex; justify-content: space-between;"> <span>B : 25</span> <span>C : 0</span> <span>J : 0</span> <span>O : 0</span> </div> <div style="display: flex; justify-content: space-between;"> <span>P : 0</span> <span>R : 0</span> </div>			

2	85mm Thick surface bed	m2	26	
	<div style="display: flex; justify-content: space-between;"> <span>B : 26</span> <span>C : 0</span> <span>J : 0</span> <span>O : 0</span> </div> <div style="display: flex; justify-content: space-between;"> <span>P : 0</span> <span>R : 0</span> </div>			

#### **Taking out and removing ironmongery**

3	Door stop	No	16	
	<div style="display: flex; justify-content: space-between;"> <span>B : 16</span> <span>C : 0</span> <span>J : 0</span> <span>O : 0</span> </div> <div style="display: flex; justify-content: space-between;"> <span>P : 0</span> <span>R : 0</span> </div>			

**Carried to Collection**

Section No. 2  
ALTERATIONS  
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R

	<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>			R	
	Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS				

**SERVICING OF DOORS AND WINDOWS**

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		

**Carried to Collection**

R

Section No. 2  
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Bill No. 1  
ALTERATIONS

Section No. 2  
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**COLLECTION**

Total Brought Forward from Page No.

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No**

**Amount**

35  
36  
37  
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**Carried to Final Summary**

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Section No. 2  
ALTERATIONS  
Bill No. 1  
ALTERATIONS





**Soil poisoning**

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

**SITE CLEARANCE ETC**

Site clearance

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				

Earthworks

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				

**EXCAVATION, FILLING, ETC**

Excavation in earth not exceeding 2m deep

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				

Extra over trench and hole excavations in earth for excavation in

5	Soft rock	m3	3		
	B : 0      C : 0      J : 1      O : 1				
	P : 1      R : 0				

**Carried to Collection**

**R**

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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>					
Section No. 3 BUILDING Bill No. 1 FOUNDATIONS				R	

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		

**CONCRETE, FORMWORK AND REINFORCEMENT**

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

Carried to Collection

R

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BUILDING  
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FOUNDATIONS

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Fabric reinforcement

29	Steeledale 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	Steeledale 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	Steeledale 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		

**TEST CUBES**

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		

**BRICKWORK**

Brickwork of NFP bricks in class II mortar

33	One brick walls	m2	51
	B : 0      C : 10      J : 15      O : 15 P : 10      R : 0		

**Carried to Collection**

R

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



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

**CONCRETE SUNDRIES**

**Carried to Collection**

R

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

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Mesh Reinforcement (measure nett):

8	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	83
	B : 0      C : 10      J : 24      O : 22		
	P : 27      R : 0		

**Carried to Collection**

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

R



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>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls in beamfilling	m2	14	
	<div> <div>B : 0</div> <div>C : 2</div> <div>J : 4</div> <div>O : 4</div> </div> <div> <div>P : 4</div> <div>R : 0</div> </div>			
	<b>Carried to Collection</b>		R	
	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				
Section No. 3 BUILDING Bill No. 3 MASONRY		Carried to Collection		R	



Holes

9	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	13
	B : 2      C : 3      J : 4      O : 4		
	P : 0      R : 0		
10	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	22
	B : 4      C : 1      J : 6      O : 6		
	P : 5      R : 0		
<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	m2	503
	B : 0      C : 78      J : 144      O : 143		
	P : 138      R : 0		
12	Half brick wall faced on both sides	m2	71
	B : 0      C : 5      J : 22      O : 16		
	P : 28      R : 0		
13	Extra over brickwork for brick-on-edge header course lintel	m	26
	B : 0      C : 3      J : 7      O : 8		
	P : 8      R : 0		
14	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	13
	B : 2      C : 3      J : 4      O : 4		
	P : 0      R : 0		
15	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	17
	B : 4      C : 1      J : 6      O : 6		
	P : 0      R : 0		

**Carried to Collection**

R

Section No. 3  
BUILDING  
Bill No. 3  
MASONRY

[illegible]



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" 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" waterproof sheeting sealed at laps with "Gunplas 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 with a hand pressure caulking gun and leave perfectly 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>		R	
	Section No. 3 BUILDING Bill No. 4 WATERPROOFING			

### **SECTION NO.3**

## BILL NO.4

## WATERPROOFING

For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades

## DAMP-PROOFING OF WALLS AND FLOORS

One layer of 375 micron Consol Plastic Brikgrip DPC"  
embossed damp proof course

1	In walls	m2	31
	B : 0	C : 4	J : 9
	P : 9	R : 0	O : 9

One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"

2	Under surface beds	m2	109
	B : 26      C : 10      J : 24      O : 22		
	P : 27      R : 0		

## FLOOR AND WALL SEALERS

"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight

3	Around steel windows and door frames B : 0      C : 40      J : 110      O : 117 P : 117      R : 0	m	384
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**Carried Forward to Summary of Section No. 3**

Section No. 3  
BUILDING  
Bill No. 4  
WATERPROOFING

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			

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	
2	12" Thermal resistance sisalation laid on purlins B : 65      C : 19      J : 49      O : 39 P : 43      R : 0	m2	216	

### **Sundries**

**Carried to Collection**

**R**

Section No. 3  
BUILDING  
Bill No. 5  
ROOF COVERINGS, ETC







<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 Permfix nails or bolts through pre-drilled holes. B : 25 C : 15 J : 20 O : 20 P : 20 R : 0	No	100		
<b><u>EAVES, VERGES, ETC</u></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>				R	
Section No. 3 BUILDING Bill No. 6 CARPENTRY AND JOINERY					

7	<p>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.</p> <p style="text-align: center;">B : 13      C : 10      J : 12      O : 10 P : 10      R : 0</p> <p><b><u>DOORS, ETC</u></b></p> <p><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></p>	m	54		
8	<p>Door size 813 x 2032mm high cut 100mm short at the bottom</p> <p style="text-align: center;">B : 4      C : 1      J : 5      O : 5 P : 5      R : 0</p>	No	20		
9	<p>Door size 813 x 2032mm high with standard weather bar</p> <p style="text-align: center;">B : 2      C : 1      J : 1      O : 1 P : 1      R : 0</p>	No	6		
10	<p>Door size 914 x 2032mm high including weatherboard</p> <p style="text-align: center;">B : 0      C : 0      J : 1      O : 1 P : 0      R : 0</p>	No	2		
<b>Carried to Collection</b>				R	
<p>Section No. 3 BUILDING Bill No. 6 CARPENTRY AND JOINERY</p>					

**Carried Forward to Summary of Section No. 3**  
Section No. 3  
BUILDING  
Bill No. 6  
CARPENTRY AND JOINERY

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>Carried to Collection</b>			R
	Section No. 3 BUILDING Bill No. 7 IRONMONGERY			

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>				R	
Section No. 3 BUILDING Bill No. 7 IRONMONGERY					

### **BATHROOM FITTINGS**

"Kimberley-Clark or similar approved"

11	SQ2 code 405607B white none lockable toilet roll holder plugged to wall	No	22
	B : 4      C : 1      J : 6      O : 6		
	P : 5      R : 0		

12	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc	No	12
	B : 0      C : 0      J : 7      O : 5		
	P : 0      R : 0		

### **LETTERS, NAMEPLATES, ETC**

"ASSA ABLOY" or similar approved

13	ASSA ABLOY Aluminium engraved plate E10, size 152 x 152mm (Code: AL5066-06ASE10). (Male)	No	3
	B : 1      C : 1      J : 0      O : 0		
	P : 1      R : 0		

14	ASSA ABLOY Aluminium engraved plate E11, size 152 x 152mm (Code: AL5066-06ASE11). (Female)	No	3
	B : 1      C : 0      J : 1      O : 1		
	P : 0      R : 0		

15	ASSA ABLOY Aluminium engraved plate E14, size 152 x 152mm (Code: AL5066-06ASE14). (Paraplegic)	No	2
	B : 0      C : 0      J : 1      O : 1		
	P : 0      R : 0		

Stainless steel:

16	Stainless steel mirror size 350 x 400m plugged to wall with chrome plated screws.	No	10
	B : 2      C : 1      J : 4      O : 3		
	P : 0      R : 0		

**Carried to Collection**

Section No. 3  
BUILDING  
Bill No. 7  
IRONMONGERY

R



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>			R
	Section No. 3 BUILDING Bill No. 8 METALWORK			



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 burglar 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

Carried to Collection

R

Section No. 3  
BUILDING  
Bill No. 8  
METALWORK

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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	m2	98
	B : 12      C : 10      J : 25      O : 23		
	P : 28      R : 0		
<b><u>FLOOR AND WALLS SEALERS</u></b>			
<u>Minimum two coats approved epoxy coat:</u>			
2	On screed	m2	98
	B : 12      C : 10      J : 25      O : 23		
	P : 28      R : 0		
Carried Forward to Summary of Section No. 3			R
Section No. 3			
BUILDING			
Bill No. 9			
PLASTERING			

### SECTION NO.3

## BILL NO.9

## PLASTERING

For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades

## CEMENT SCREEDS TO CONCRETE

Screeds to steel trowelled, on concrete:

1	30mm thick on floors	m2	98
	B : 12      C : 10      J : 25      O : 23		
	P : 28      R : 0		

## FLOOR AND WALLS SEALERS

Minimum two coats approved epoxy coat:

2	On screed				m2	98
	B : 12	C : 10	J : 25	O : 23		
	P : 28	R : 0				

**Carried Forward to Summary of Section No. 3**

Section No. 3  
BUILDING  
Bill No. 9  
PLASTERING

## BUILDING

Bill No. 9

## PLASTERING

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>			
	<b>Carried to Collection</b>		R	
	Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE			

	<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  <u>Extra over "Corflo" double walled radial ribbed uPVC pipes with integral moulded cuff joints and rubber seal rings for uPVC fittings</u>	m	404		
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 Gulley 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>			R	
	Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE				

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



26	Cobra Watertech 32mm cast brass gate valve (Code: 1001/125-32) parrallel 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>				R	
Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE					

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

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 incl. all excavations, backfilling, etc. B : 57      C : 46      J : 32      O : 46 P : 0      R : 150	m	331	
<b>Carried to Collection</b>				R
Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE				

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

59	22mm Pipes B : 4      C : 8      J : 12      O : 8 P : 0      R : 0 <u>Extra over class 0 copper pipes for capillary fittings</u>	m	32		
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 <u>Galvanised steel pipes:</u>	No	16		
62	20mm Pipes chased into brick walls B : 3      C : 0      J : 0      O : 0 P : 1      R : 0 <u>Extra over galvanised steel pipes for steel fittings:</u>	m	4		
63	20mm Fittings B : 6      C : 0      J : 0      O : 0 P : 3      R : 0 <b><u>DRIP TRAYS, TANKS, ETC</u></b> <u>"JoJo" or equally approved</u>	No	9		
64	10000 Litre polyethylene Water Tank B : 0      C : 0      J : 0      O : 0 P : 0      R : 4 <b><u>"ENVIRO LOO" or equally approved</u></b>	No	4		
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>				R	
Section No. 3 BUILDING Bill No. 10 PLUMBING AND DRAINAGE					

**INSPECTION BY ENVIRO-LOO / SUPPLIER**

67 Allow for two site visits to be made by the "enviro loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between end-user department and enviro loo supplier

68 Profit

B : 0.00      C : 0.00      J : 0.00      O : 0.00  
P : 0.01      R : 0.00

69 Allow for general attendance

Item

%

Item

**Carried to Collection**

R

Section No. 3  
BUILDING  
Bill No. 10  
PLUMBING AND DRAINAGE

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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>			
<b>Carried to Collection</b>			R
Section No. 3 BUILDING Bill No. 12 PAINTWORK			

	<u>Plascon Sure Coat Gloss Enamel to exterior new fibre cement. 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.</u>				
1	<p>On fascias and barge boards</p> <p>B : 26      C : 6      J : 10      O : 9</p> <p>P : 10      R : 0</p> <p><b><u>ON METAL</u></b></p> <p><u>Plascon Velvagio Satin to interior 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 Velvagio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p>	m2	62		
2	<p>On door frames</p> <p>B : 0      C : 2      J : 8      O : 8</p> <p>P : 6      R : 0</p>	m2	24		
3	<p>On windows with burglar bars</p> <p>B : 0      C : 3      J : 7      O : 8</p> <p>P : 9      R : 0</p>	m2	28		
4	<p>On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )</p> <p>B : 0      C : 3      J : 19      O : 19</p> <p>P : 3      R : 0</p> <p><b><u>ON WOOD</u></b></p>	m2	45		
<b>Carried to Collection</b>					
Section No. 3 BUILDING Bill No. 12 PAINTWORK					R

	<p><u>Plascon Woodcare Clear Varnish to exterior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) &lt; 14% or less. Prime with one coat Woodcare Clear Varnish (CVE 5) with an overcoating time of 16 hours and finish with two coats Woodcare Clear Varnish (CVE 5) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u></p>				
5	<p>On doors</p> <p>B : 21      C : 4      J : 7      O : 7</p> <p>P : 4      R : 0</p> <p><u>Plascon Professional Eggshell Enamel to interior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) &lt; 14% or less. Prime with one coat Professional Wood Primer (PP 800) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u></p>	m2	43		
6	<p>On doors</p> <p>B : 0      C : 4      J : 18      O : 18</p> <p>P : 18      R : 0</p> <p><b><u>PAINT TO PREVIOUSLY PAINTED SURFACES</u></b></p> <p><b><u>ON METAL</u></b></p>	m2	56		
Carried to Collection					
<p>Section No. 3  BUILDING  Bill No. 12  PAINTWORK</p>					
					R

Plascon Velvagio 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 Velvagio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.

7	On door frames	m2		
	B : 0.0      C : 0.0      J : 0.0      O : 0.0			
	P : 0.0      R : 0.0			
8	On windows with burglar bars	m2	11	
	B : 11      C : 0      J : 0      O : 0			
	P : 0      R : 0			
9	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area )	m2	15	
	B : 15      C : 0      J : 0      O : 0			
	P : 0      R : 0			

**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	m2								
	<table border="0" style="width: 100%;"> <tr> <td style="width: 25%;">B : 0.0</td> <td style="width: 25%;">C : 0.0</td> <td style="width: 25%;">J : 0.0</td> <td style="width: 25%;">O : 0.0</td> </tr> <tr> <td>P : 0.0</td> <td>R : 0.0</td> <td></td> <td></td> </tr> </table>	B : 0.0	C : 0.0	J : 0.0	O : 0.0	P : 0.0	R : 0.0			
B : 0.0	C : 0.0	J : 0.0	O : 0.0							
P : 0.0	R : 0.0									

**Carried to Collection**

Section No. 3  
BUILDING  
Bill No. 12  
PAINTWORK

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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 B : 67      C : 19      J : 30      O : 27 P : 31      R : 0	m2	173	
	<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 B : 37      C : 19      J : 30      O : 27 P : 31      R : 0	m2	143	
	<u>Soil insecticide</u>			
3	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming B : 37      C : 19      J : 30      O : 27 P : 31      R : 0	m2	143	
	<u>15 MPa/19mm concrete</u>			
4	Aprons cast in panels to falls B : 5      C : 2      J : 4      O : 3 P : 4      R : 0	m3	19	
	<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				

**Carried to Collection**

R

Section No. 4  
EXTERNAL WORKS  
Bill No. 1  
CONCRETE APRONS



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>			
	<u>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</u>			
	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>			
	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		
	<u>Paving layers</u>				
	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		
	<u>Prescribed density tests on filling</u>				
8	"Mod. AASHTO Density" test	No	30		
	<b><u>PAVING</u></b>				
	<u>Interlocking paving</u>				
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>			R	
	Section No. 4				
	EXTERNAL WORKS				
	Bill No. 2				
	PAVED WALKWAYS				

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Section No. 4

EXTERNAL WORKS

Bill No. 2

PAVED WALKWAYS

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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	m2	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>			R
	Section No. 4			
	EXTERNAL WORKS			
	Bill No. 3			
	FENCING AROUND WATER TANK			

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Section No. 4

EXTERNAL WORKS

Bill No. 3

FENCING AROUND WATER TANK

**COLLECTION**

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**Amount**

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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	m2	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>				R
Section No. 4 EXTERNAL WORKS Bill No. 4 FENCING AROUND GRADE R TOILETS, ETC				

## SECTION NO.4

## **BILL NO.4**

## FENCING AROUND GRADE R TOILETS

## SITE CLEARANCE ETC

### Site clearance

- |   |  |    |     |
|---|--|----|-----|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 160 |
|---|--|----|-----|

## FENCING

Hot dipped galvanised steel palisade fencing:

- |   |   |   |    |
|---|---|---|----|
| 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 |
|---|---|---|----|

## ACCESS GATES

- |   |  |    |   |
|---|--|----|---|
| 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 |
|---|--|----|---|

## PAINTING

**Carried to Collection**

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Section No. 4  
EXTERNAL WORKS  
Bill No. 4  
FENCING AROUND

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.

5 On rails, bars, pipes m2 288

Carried to Collection

R

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



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			

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### **SCREEDS**

#### Screeds on concrete

23	30mm Thick around distribution chambers etc.	m2	4		
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### **PLUMBING AND DRAINAGE**

#### uPVC pipes

24	110mm Pipes	m	1		
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#### Extra over uPVC pipes for fittings

25	110mm Tee	No	2		
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#### Cover, etc

26	600 x 600mm Type 2A cast iron single seal manhole cover and frame	No	4		
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27	Lifting key for manhole cover	No	2		
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### **PAINTWORK**

#### Prepare surfaces and apply one layer "sikaguard 720" and three coats "sikaguard 63N" polyurethane finish

28	On walls	m2	60		
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**Carried to Collection**

R

Section No. 4  
EXTERNAL WORKS  
Bill No. 5  
SEPTIC TANK





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	
Carried to Collection				R
Section No. 4 EXTERNAL WORKS Bill No. 6 FRENCH DRAIN				

	<u>Keeping excavations free of water</u>				
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>				
10	"Kaymat U14" around stone filling in sub-soil drain trenches	m2	34		
	<u>20mm Graded stone filling or similar approved</u>				
11	In holes	m3	6		
	<u>200 - 300mm Diameter clean washed stone filling or similar approved by engineer</u>				
12	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>				
13	On top of pipes as protection of joints	m2	4		
	<u>uPVC pipes</u>				
14	110mm Perforated pipes	m	5		
<b>Carried to Collection</b>				R	
Section No. 4 EXTERNAL WORKS Bill No. 6 FRENCH DRAIN					

Section No. 4

EXTERNAL WORKS

Bill No. 6

FRENCH DRAIN

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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			R
Section No. 4			
EXTERNAL WORKS			
Bill No. 7			
DRINKING FOUNTAIN ETC.			

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

**TAPS, VALVES, ETC**

- |    |  |
|----|--|
| 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. |
| 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

No

3

**Carried to Collection**

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Section No. 4  
EXTERNAL WORKS  
Bill No. 7  
DRINKING FOUNTAIN ETC.

Section No. 4

EXTERNAL WORKS

Bill No. 7

DRINKING FOUNTAIN ETC.

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EXTERNAL WORKS

Bill No. 7

DRINKING FOUNTAIN ETC.



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			

<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 density	m2	300		
<u>Soil poisoning</u>					
8	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					

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO 4</u></b>			
	<b><u>BILL NO 9</u></b>			
	<b><u>RAIN WATER TANKS</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	37	
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches	m3	15	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	3	
4	Hard rock	m3	3	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	4	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	24	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item		
	<b>Carried to Collection</b>		R	
	Section No. 4			
	EXTERNAL WORKS			
	Bill No. 9			
	RAINWATER TANKS			

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Section No. 4

EXTERNAL WORKS

Bill No. 9

RAINWATER TANKS

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Section No. 4

EXTERNAL WORKS

Bill No. 9

RAINWATER TANKS



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Section No	FINAL SUMMARY	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>		
	ALLOW 10% OF THE TENDER AMOUNT 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		R
	Sub Total (Excluding VAT)		R
	Value Added Tax		R
	TOTAL (VAT INCL.) CARRIED TO TENDER FORM		R
	Carried to Form of Tender		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\*\*\*