

Item No	Quantity	Rate	Amount
<b><u>SECTION 1</u></b>			
<b><u>BILL No.1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<p>1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.</p> <p>2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.</p> <p>3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.</p> <p>4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.</p> <p>5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.</p> <p>6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.</p>			
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7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

8. Where any item is not relevant to this specific contract, such item is marked N/A.

9. 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 by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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## **SECTION A: PRINCIPAL BUILDING AGREEMENT**

### **DEFINITIONS**

Definitions and interpretation (Clause 1).

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

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### **OBJECTIVE AND PREPARATION**

Offer, acceptance and performance (Clause 2).

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

Item

Documents (Clause 3).

Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'

Clause 3.3 is deleted and substituted with:

The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.

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

Item

Design responsibility (Clause 4).

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

Item

Employer's agents (Clause 5).

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

Item

Site representative (Clause 6).

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

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Compliance with regulations (Clause 7).

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

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	Works risk (Clause 8)			
8	F: ..... V: ..... T: .....  Indemnities (Clause 9).  Clause 9.1.1 is deleted and substituted with:  Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item		
9	F: ..... V: ..... T: .....  Works insurances (Clause 10).	Item		
10	F: ..... V: ..... T: .....  Liability insurances (Clause 11).	Item		
11	F: ..... V: ..... T: .....  Effecting insurances (Clause 12).	Item		
12	F: ..... V: ..... T: .....  State Provisions (Clause 13).	Item		
13	F: ..... V: ..... T: .....  Security (Clause 14).	Item		
14	F: ..... V: ..... T: .....  <b><u>EXECUTION</u></b>  Preparation for and execution of the works (Clause 15).	Item		
15	F: ..... V: ..... T: .....  Access to the works (Clause 16).	Item		
16	F: ..... V: ..... T: .....  Contract instructions (Clause 17).	Item		
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17	F: ..... V: ..... T: .....  Setting out of the works (Clause 18.3).  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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: ..... V: ..... T: .....  Assignment (Clause 19).	Item		
19	F: ..... V: ..... T: .....  Nominated subcontractors (Clause 20).	Item		
20	F: ..... V: ..... T: .....  Selected subcontractors (Clause 21).	Item		
21	F: ..... V: ..... T: .....  Employer's Direct contractors (Clause 22).	Item		
22	F: ..... V: ..... T: .....  Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: ..... V: ..... T: .....  <b><u>COMPLETION</u></b>  Practical completion (Clause 24).	Item		
24	F: ..... V: ..... T: .....  Works completion (Clause 25).	Item		
25	F: ..... V: ..... T: .....  Final completion (Clause 26).	Item		
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Latent defects liability period (Clause 27).

Clause 27.0 is amended by the addition of the following clauses:

"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".

"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"

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

Item

Sectional completion (Clause 28).

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

Item

Revision of date for practical completion (Clause 29).

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

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Penalty for non-completion (Clause 30).

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

Item

### **PAYMENT**

Interim payment to the contractor (Clause 31).

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.

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Where prices are submitted by the contractor or nominated/selected sub contractor 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.

Adjustment to the contract value (Clause 32).

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

Item

Recovery of expense and loss (Clause 33).

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

Item

Final account and final payment (Clause 34).

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

Item

Payment to other parties (Clause 35).

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

Item

### **CANCELLATION**

Cancellation by Employer - Contractor's default (Clause 36).

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

Item

Cancellation by Employer - Loss and damage (Clause 37).

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

Item

Cancellation by Contractor - Employer's default (Clause 38).

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

Item

Cancellation - Cessation of the works (Clause 39).

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

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**DISPUTE**

Dispute Settlement (Clause 40)

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

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**SUBSTITUTE PROVISIONS**

State Clauses (Clause 41)

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

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**CONTRACT VARIABLES**

The Schedule: Pre-Tender information (Clause 42).

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

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**CONTRACTING AND OTHER PARTIES (Clause 42.1)**

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East  
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East  
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East  
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East  
London

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<p><b><u>CONTRACT DETAILS (Clause 42.2)</u></b></p> <p>Clause 42.2.1</p> <p>Works Description: Construction of new ablution facilities.</p> <p>Clause 42.2.2</p> <p>Site Description: The site is the existing school.</p> <p>Clause 42.2.3</p> <p>Work or Installations by Others: NIL</p> <p>Clause 42.2.4</p> <p>This Agreement is for a State Contract :- Yes</p> <p>Payment will be made for materials and goods:- Yes</p> <p>Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.</p> <p>Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A</p> <p>Clause 42.2.5</p> <p>Date on which possession of the site is intended to be given on :-</p> <p>To be advised.</p> <p>Clause 42.2.6</p> <p>Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.</p> <p>Completion in Sections are required : NO</p> <p>Clause 42.2.7</p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole :-</p> <p>To be advised.</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 1 Bill No. 1 Preliminaries</p>			
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Penalty amount will be 5,75c/R100 of Contract Sum.

Clause 42.2.8

Intended dates of practical completion and the penalties per calendar day for the works in sections :

N/A

Clause 42.2.9

The law applicable to this agreement shall be that of - Republic of South Africa.

### **INSURANCES (Clause 42.3)**

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum

With a deductible of : Not exceeding 5% of each and every claim.

Clause 42.3.2

Supplementary insurance is required : Yes

SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

With a deductible of: Not exceeding 5% of each and every claim.

### **DOCUMENTS (Clause 42.4)**

Clause 42.4.1

Waiver of the contractor's lien is required :- YES

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Clause 42.4.2

Number of construction document copies to be supplied to the Contractor free of charge :- 1

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

Standard System of Measuring Building Work - Seventh Edition including all amendments

Clause 42.4.4

Number of days for submission of priced documents : 5 working days from the Letter of Appointment.

Clause 42.4.5

JBCC Engineering General Conditions are to be included in the documents :- No

Clause 42.4.6

The contract value is to be adjusted using CPAP:- NO

## **SECTION B: PRELIMINARIES**

### **DEFINITIONS AND INTERPRETATION (B1)**

Definitions and Interpretation (B1)

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

Item

### **DOCUMENTS (B2)**

Checking of documents (B2.1)

Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.

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

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Provisional Bills of Quantities (B2.2) YES

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	Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
43	F: ..... V: ..... T: .....  Availability of construction documentation (B2.3)	Item		
44	F: ..... V: ..... T: .....  Interests of Agents (B2.4)	Item		
45	F: ..... V: ..... T: .....  Priced documents (B2.5)	Item		
46	F: ..... V: ..... T: .....  Tender submission (B2.6)  Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.	Item		
47	F: ..... V: ..... T: .....  <b><u>THE SITE (B3)</u></b>  Defined works area (B3.1)  The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.  Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.  The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.	Item		
48	F: ..... V: ..... T: .....	Item		
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	Geotechnical investigation (B3.2)			
	A desktop geotechnical report is available upon request.			
49	F: ..... V: ..... T: .....	Item		
	Inspection of the Site (B3.3)			
50	F: ..... V: ..... T: .....	Item		
	Existing premises occupied (B3.4)			
51	F: ..... V: ..... T: .....	Item		
	Previous work - dimensional accuracy (B3.5)			
52	F: ..... V: ..... T: .....	Item		
	Previous work - defects (B3.6)			
53	F: ..... V: ..... T: .....	Item		
	Services - known (B3.7)			
54	F: ..... V: ..... T: .....	Item		
	Services - unknown (B3.8)			
55	F: ..... V: ..... T: .....	Item		
	Protection of trees (B3.9)			
56	F: ..... V: ..... T: .....	Item		
	Articles of value (B3.10)			
57	F: ..... V: ..... T: .....	Item		
	Inspection of adjoining properties (B3.11)			
58	F: ..... V: ..... T: .....	Item		
	<b><u>MANAGEMENT OF CONTRACT (B4)</u></b>			
	Management of the Works (B4.1)			
59	F: ..... V: ..... T: .....	Item		
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[illegible]

	Plant and equipment (B6.4)		
69	F: ..... V: ..... T: .....  Main notice board (B6.5)  One notice board shall be provided by the Contractor	Item	
70	F: ..... V: ..... T: .....  Subcontractors notice board (B6.6) (N/A)	Item	
71	F: ..... V: ..... T: .....  <b><u>TEMPORARY SERVICES (B7)</u></b>  Location (B7.1)		
72	F: ..... V: ..... T: .....  Water (B7.2)  The contractor shall provide water for the works in accordance with:  Alternative A (i.e. to be provided for by the Contractor).	Item	
73	F: ..... V: ..... T: .....  Electricity (B7.3)  The contractor shall provide electricity for the works in accordance with:  Alternative A (i.e. to be provided for by the Contractor).	Item	
74	F: ..... V: ..... T: .....  Telecommunication equipment (B7.4)  The contractor shall provide telephones on site for the works in accordance with:  Alternative A (i.e. to be provided for by the Contractor).	Item	
75	F: ..... V: ..... T: .....	Item	
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	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: ..... V: ..... T: .....	Item		
	<b><u>PRIME COST AMOUNTS (B8)</u></b>			
	Responsibility for prime cost amounts (B8.1)			
77	F: ..... V: ..... T: .....	Item		
	<b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b>			
	General Attendance (B9.1)			
78	F: ..... V: ..... T: .....	Item		
	Special Attendance (B9.2)			
79	F: ..... V: ..... T: .....	Item		
	Commissioning - fuel, water and power (B9.3)			
80	F: ..... V: ..... T: .....	Item		
	<b><u>FINANCIAL ASPECTS (B10)</u></b>			
	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).			
81	F: ..... V: ..... T: .....	Item		
	Payment of Preliminaries (B10.2)			
82	F: ..... V: ..... T: .....	Item		
	Adjustment of Preliminaries (B10.3)			
83	F: ..... V: ..... T: .....	Item		
	Payment certificate cash flow (B10.4)			
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84	F: ..... V: ..... T: ..... Contractor information supply (B10.5)	Item		
85	F: ..... V: ..... T: ..... <b><u>GENERAL (B11)</u></b> Protection of the Works (B11.1)	Item		
86	F: ..... V: ..... T: ..... Protection/isolation of existing/sectionally occupied works (B11.2)	Item		
87	F: ..... V: ..... T: ..... Site security (B11.3)	Item		
88	F: ..... V: ..... T: ..... Notice before covering work (B11.4)	Item		
89	F: ..... V: ..... T: ..... Disturbance (B11.5)	Item		
90	F: ..... V: ..... T: ..... Works cleaning and clearing (B11.6)	Item		
91	F: ..... V: ..... T: ..... Vermin (B11.7)	Item		
92	F: ..... V: ..... T: ..... Overhand work (B11.8)	Item		
93	F: ..... V: ..... T: .....	Item		
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## **SECTION C: SPECIFIC PRELIMINARIES**

### **Section C: Specific Preliminaries:**

#### C1. Proprietary branded products

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

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

Item

#### C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

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

Item

#### C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

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

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#### C4. Overtime

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	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 the execution thereof, that costs for such overtime are to be borne by the employer.			
97	F: ..... V: ..... T: .....  C5. As built drawings  The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.  Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.	Item		
98	F: ..... V: ..... T: .....  C6. Construction Instructions  Contract 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. The Contractor shall supply and have available at the site of the works at all times, the following site books:  a) Construction Instruction Book:  Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.  Only instructions issued in such book shall be recognised.  b) Daily Record Book:	Item		
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	<p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p>				
99	<p>F: ..... V: ..... T: .....</p> <p>C7. Labour record</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 and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>	Item			
100	<p>F: ..... V: ..... T: .....</p> <p>C8. Plant record</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, currently used on the works.</p>	Item			
101	<p>F: ..... V: ..... T: .....</p> <p>C9. Encroachment</p> <p>During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p>	Item			
102	<p>F: ..... V: ..... T: .....</p> <p>C10. Method Statement</p>	Item			
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	<p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p>			
103	<p>F: ..... V: ..... T: .....</p> <p>C11. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p>	Item		
104	<p>F: ..... V: ..... T: .....</p> <p>C12. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p>	Item		
105	<p>F: ..... V: ..... T: .....</p>	Item		
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	<p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p>				
106	<p>F: ..... V: ..... T: .....</p> <p><b><u>C14. Office accommodation</u></b></p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p>	Item			
107	<p>F: ..... V: ..... T: .....</p> <p><b><u>C15. Storage Facilities</u></b></p>	Item			
108	<p>The Contractor shall provide a Container for storage of materials.</p>	Item			
109	<p>F: ..... V: ..... T: .....</p> <p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>	Item			
110	<p>F: ..... V: ..... T: .....</p>	Item			
<b>Carried to Collection</b>				R	
<p>Section 1 Bill No. 1 Preliminaries</p>					

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Section 1

Bill No. 1

Preliminaries

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Section 1

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Preliminaries

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Item No	Quantity	Rate	Amount
<b><u>SECTION 1</u></b>			
<b><u>BILL No. 2</u></b>			
<b><u>HEALTH AND SAFETY</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.</p>			
<p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.</p>			
<p>Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health &amp; Safety specifications.</p>			
<p>The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health &amp; Safety Specifications.</p>			
<p>The costs included herein must incorporate Community Liaison Officer (CLO).</p>			
<b>Carried to Collection</b>			
Section 1 Bill No. 2 Health and Safety			R

<b><u>OCCUPATIONAL HEALTH AND SAFETY</u></b>					
<b><u>General:</u></b>					
1	Preparation of Contractor's site specific Health and Safety Plan.		Item		
2	Submission of the Health and Safety File.		Item		
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	No	1		
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	No	1		
5	Provision of full time Health and Safety Officer for the entire construction period.	No	3		
6	Induction training of personnel.	No	1		
7	Provision of first aid boxes.	No	1		
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150		
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1		
<b><u>Provision for Personal Protective Equipment and Protective Clothing:</u></b>					
10	Reflective vests.	No	20		
11	Hard hats.	No	20		
12	Protective foot wear.	No	20		
13	Ear Plugs.	No	100		
14	Dust Masks.	No	100		
<b><u>Costs of Medical Certificates and Medical Surveillance:</u></b>					
15	Initial (baseline) medical examinations.	No	15		
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Health and Safety					

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Section 1

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Health and Safety

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**SECTION SUMMARY - PRELIMINARIES**

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<b><u>SECTION 2</u></b>			
<b><u>BILL No. 1</u></b>			
<b><u>DEMOLITIONS</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>View site</u></b>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<b><u>Explosives</u></b>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated.			
<b><u>General</u></b>			
Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.			
Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.			
<b>Carried to Collection</b>			R
Section 2			
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Demolitions			

**Removal of asbestos material**

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

**The following shall apply in respect of asbestos removal**

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

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**DEMOLISHING AND REMOVING**

1	Demolish pit latrine structure on ground, approximate size 4m x 2m wide and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	4
2	Cart away rubble from demolitions and dispose off site.		Item
3	Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density.	m3	64
4	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	10

**SUNDRIES**

**Desludging**

5	Clean out pit latrine by desludging including removal of all debris and waste including solid waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat	No	1
6	Issue of Certificate of Waste Disposal.		Item

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<b><u>BILL No. 1</u></b>			
<b><u>ALTERATIONS</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>View site</u></b>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<b><u>Explosives</u></b>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated.			
<b><u>General</u></b>			
Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.			
Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.			
<b>Carried to Collection</b>			
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Alterations			

**Removal of asbestos material**

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

**The following shall apply in respect of asbestos removal**

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

**Carried to Collection**

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**DEMOLISHING AND REMOVING**

**Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)**

1	50mm PVC Waste pipe	m	10
2	Remove VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere).	No	4
3	Remove wall mounted urinals and cart away	No	4

**ROOF COVERINGS**

Sealing of existing roof

4	Carefully examine existing entire roof area, locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes, solder, replace defective screws using longer screws where necessary.	m2	50
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**ROOF AND WALL INSULATION**

**"Sisalation Grade FR430" or equal approved heavy industrial insulation**

5	Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires	m2	20
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**EAVES, VERGES, ETC.**

Pressed fibre-cement

6	15 x 230mm barge boards including galvanised steel H-profile jointing strips	m	12
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**IRONMONGERY**

**BATHROOM ACCESSORIES**

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	<b><u>Halcast or equal approved"</u></b>				
7	Thiefproof toilet roll holder plugged.	No	11		
	<b><u>Stainless Steel</u></b>				
8	Brushed stainless steel She bin approximately 330 x 280 x 180mm plugged	No	8		
	<b><u>PLASTERING</u></b>				
	<b><u>SCREEDS</u></b>				
	<u>Cement plaster screeds steel trowelled on concrete</u>				
9	25mm Thick on floors and landings	m2	40		
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	<b><u>SANITARY FITTINGS</u></b>				
	<b><u>Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:</u></b>				
10	SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet.	No	2		
	<u>Rust and corrosion resistant ,UV-resistant polyethylene pedestals,urinals,basins,etc.Product and colour to Principal Agent'approval</u>				
11	VIP 450 Pit pedestal complete with intergral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	4		
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<b><u>Vent Pipes</u></b>					
12	Allow for fixing of existing vent pipe including supplying and installing brackets with screws fixed to brick walls and leave in good working order.	No	12		
<b><u>SANITARY PLUMBING</u></b>					
<u>PVC waste or vent pipes and fittings</u>					
13	50mm Waste pipe	m	8		
<u>Extra over for :</u>					
14	50mm Bend	No	6		
15	50mm Access bend	No	6		
<u>Prepare and apply one coat "Plascon Merit Plaster Primer" and two coats "Plascon Super Acrylic PVA " paint</u>					
16	On internal walls	m2	60		
<b><u>WATER SUPPLIES</u></b>					
<u>Galvanised pipes including excavation, cart away, etc</u>					
17	15mm Pipes	m	26		
<u>Extra over galvanised pipes for fittings</u>					
18	15mm fittings	No	4		
<u>Cobra Watertech</u>					
19	15mm brass tap	No	4		
<u>Upvc Pipes</u>					
20	110mm Blue Water Pipe	No	4		
<u>Stand pipe</u>					
21	Stand pipe connected to water supply line	No	4		
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<b><u>SECTION No. 3</u></b>			
<b><u>BILL No. 1</u></b>			
<b><u>EXTERNAL WORKS (PROVISIONAL)</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u></b>			
<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches. m3	44	
<u>Extra over all excavations for carting away:</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor. m3	30	
<u>Risk of collapse of excavations:</u>			
3	Sides of trench and hole excavations not exceeding 1,5m deep. m2	122	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
4	Backfilling to trenches, holes, etc. m3	22	
<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>			
5	Under footings. m3	6	
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	<u>Compaction of surfaces</u>				
6	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 90% Mod AASHTO density.	m2	62		
	<u>25 Mpa/19mm Concrete</u>				
7	Strip footings.	m3	16		
	<u>Test blocks:</u>				
8	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	<u>Fabric reinforcement:</u>				
9	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	62		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
10	One brick walls.	m2	50		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork reinforcement:</u>				
11	230mm Wide reinforcement built in horizontally.	m	202		
12	Ditto but in foundations.	m	168		
	<u>FACE BRICK</u>				
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
13	One brickwall faced on both sides.	m2	62		
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14	<p>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</p> <p>230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.</p>	m	122	
				R

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<b><u>STORMWATER CHANNELS</u></b>					
<u>Excavation not exceeding 2m deep</u>					
15	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	55		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
16	Off site to a dumping site to be found by the Contractor.	m3	55		
<u>Filling supplied by the contractor under channels</u>					
17	G7 Base course material compacted to 98% Mod AASHTO density	m3	22		
18	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	22		
<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>					
19	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	135		
20	Extra for 700mm angle	No	10		
21	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	2		
<b>Carried to Collection</b>				R	
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	<u>Sundries:</u>				
22	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	60		
	<b><u>THE FOLLOWING IN DISABLED ACCESS</u></b>				
	<b><u>ACCESS RAMPS</u></b>				
	<u>Demolish and remove</u>				
23	Ramps	m3	2		
24	80mm thick ramps and walkways	m2	11		
25	230mm Brick ramp walls not more than 1m high	m	15		
26	Extra over for removal foundations (Provisional)	m	15		
	<u>Extra over bulk excavations in earth for breaking up and removing</u>				
27	Brickwork	m3	2		
28	Unreinforced concrete	m3	2		
29	Reinforced concrete	m3	2		
	<u>Excavation not exceeding 2m deep</u>				
30	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	3		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
31	Off site to a dumping site to be found by the Contractor.	m3	3		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
32	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
33	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2		
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	<u>Coarse river sand filling supplied by the contractor:</u>				
34	Under floors etc.	m3	1		
	<u>Compaction of surfaces:</u>				
35	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 90% Mod AASHTO density.	m2	17		
	<u>Prescribed density tests on filling:</u>				
36	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
37	Ramps, Landings, etc.	m3	2		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
38	Surface beds, slabs, etc to falls and currents.	m2	16		
	<u>Test blocks:</u>				
39	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
40	12mm Joints not exceeding 300mm high.	m	15		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
41	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	15		
	<u>Fabric reinforcement:</u>				
42	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	15		
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	<u>Waterproofing under Surface beds</u>				
43	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	15		
	<u>FACE BRICK</u>				
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
44	One brickwall faced on both sides.	m2	13		
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces. 220mm wide sill set sloping and slightly projecting:</u>				
45	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	26		
	<u>Brickwork reinforcement:</u>				
46	230mm Wide reinforcement built in horizontally.	m	39		
<b>Carried to Collection</b>					
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External Works					

**THE FOLLOWING IN STORMWATER  
DRAINAGE, APRONS ETC.**

**STORMWATER APRONS**

Excavation not exceeding 2m deep

47	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	12	
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

48	Off site to a dumping site to be found by the Contractor.	m3	4	
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Filling supplied by the contractor under floors, aprons, etc

49	G7 Base course material compacted to 98% Mod AASHTO density	m3	4	
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50	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	4	
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Coarse river sand filling supplied by the contractor:

51	Under floors etc.	m3	1	
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Compaction of surfaces:

52	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 90% Mod AASHTO density.	m2	40	
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Prescribed density tests on filling:

53	In-situ dry density test.	No	4	
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Reinforced 25Mpa/19mm Concrete:

54	Surface beds cast in panels on waterproofing.	m3	4	
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55	Edge thickening	m3	2	
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	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
56	Surface beds, slabs, etc to falls and currents.	m2	40		
	<u>Test blocks:</u>				
57	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
58	12mm Joints not exceeding 300mm high.	m	30		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
59	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	30		
	<u>Fabric reinforcement:</u>				
60	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	40		
	<u>Waterproofing under Surface beds</u>				
61	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	40		
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<b><u>STORMWATER CHANNELS</u></b>					
<u>Excavation not exceeding 2m deep</u>					
62	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	3		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
63	Off site to a dumping site to be found by the Contractor.	m3	3		
<u>Filling supplied by the contractor under channels</u>					
64	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
65	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2		
<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>					
66	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	29		
67	Extra for 700mm angle	No	4		
68	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	1		
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	<u>Sundries:</u>				
69	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	25		
70	Construct shaped earth V-drain 2m wide with grass runners	m	25		
	<b><u>THE FOLLOWING IN SOAKAWAY</u></b>				
	<u>Site Clearance, Etc</u>				
71	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	6		
	<u>Excavation in earth not exceeding 2m deep:</u>				
72	Holes	m3	6		
	<u>Extra over all excavations for carting away</u>				
73	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	6		
	<u>Risk of collapse of excavations</u>				
74	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	12		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
75	Backfilling to holes	m3	6		
	<u>Earth filling with stone material supplied by the contractor:</u>				
76	Stone (>53mm).	m2	6		
	<u>Membranes</u>				
77	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	36		
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<b><u>THE FOLLOWING IN RETAINING WALLS, ETC.</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>		
92	Trenches.	m3	10
	<u>Risk of collapse of excavations:</u>		
93	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	34
	<u>Keeping excavations free of water:</u>		
94	Keeping excavations free of all water other than subterranean water.		Item
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
95	Off site to a dumping site to be found by the Contractor.	m3	4
	<u>Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>		
96	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	6
	<u>Compaction of surfaces</u>		
97	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 90% Mod AASHTO density.	m2	17
	<u>15Mpa/19mm Concrete</u>		
98	Surface blinding under footings and bases.	m3	1
	<u>30Mpa/19mm Concrete</u>		
99	Strip footings.	m3	4
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	<u>Test blocks:</u>				
100	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Fabric reinforcement:</u>				
101	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	17		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
102	One brick wall	m2	12		
	<u>Brickwork reinforcement:</u>				
103	230mm Wide reinforcement built in horizontally.	m	40		
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
104	Extra over brickwork for face brickwork both sides	m2	18		
	<u>Brick-on-edge header course copings, sills, etc. of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>				
105	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	24		
	<u>Openings in Walls etc.</u>				
106	Leave or form 32mm weephole through one brick wall	No	10		
	<u>Membranes</u>				
107	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	18		
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108	<p>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</p> <p>19mm Stone.</p>	m3	6		
	<p>Section 4 Bill No. 1 External Works</p>			R	

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**THE FOLLOWING IN SECURITY FENCING, ETC**

**ALTERATIONS**

Site clearance

109	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2			
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**DEMOLISHING AND REMOVING**

110	Take out and remove fence poles including concrete bases.	No	30		
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Straining wires, fencing and razor wire:

111	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	384		
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112	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m			
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113	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	96		
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Posts for 1 800mm high security fence:

114	60mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	20		
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115	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	20		
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116	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	15		
117	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	20		
118	Form 12mm diameter hole through fence post.	No	20		
	<u>Gates:</u>				
119	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
	<u>PADLOCKS</u>				
120	Supply 50 mm "Viro" Padlocks and Keys (or equal approved )	No	1		
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Section 4

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External Works

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Section 4

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External Works

Item No	Quantity	Rate	Amount
<b><u>SECTION 4</u></b>			
<b><u>BILL No. 1</u></b>			
<b><u>PROVISIONAL SUMS</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
<b><u>BUDGETARY ALLOWANCES</u></b>			
<b><u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u></b>			
1	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration ( months)	Item	22 500.00
2	Add: Mark-up	%	
3	Provide the sum of R105 000.00 for the hire,maintenance and servicing of temporary toilets for educators and leaners during the entire construction period.	Item	105 000.00
4	Add: Mark-up	%	
5	Provide the sum of R50 000.00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required	Item	50 000.00
<b>Carried to Collection</b>			R
Section 5			
Bill No. 1			
Provisional Sums			

**ROZA PRIMARY SCHOOL**  
**THE MVULA TRUST SAFE PROGRAMME**

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Section 5

Bill No. 1

Provisional Sums

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Section 5  
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Provisional Sums

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