

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: ..... Item

**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: ..... Item

Compliance with regulations (Clause 7).

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

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	Works risk (Clause 8)		
8	F: ..... V: ..... T: .....	Item	
	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'.		
9	F: ..... V: ..... T: .....	Item	
	Works insurances (Clause 10).		
10	F: ..... V: ..... T: .....	Item	
	Liability insurances (Clause 11).		
11	F: ..... V: ..... T: .....	Item	
	Effecting insurances (Clause 12).		
12	F: ..... V: ..... T: .....	Item	
	State Provisions (Clause 13).		
13	F: ..... V: ..... T: .....	Item	
	Security (Clause 14).		
14	F: ..... V: ..... T: .....	Item	
	<b><u>EXECUTION</u></b>		
	Preparation for and execution of the works (Clause 15).		
15	F: ..... V: ..... T: .....	Item	
	Access to the works (Clause 16).		
16	F: ..... V: ..... T: .....	Item	
	Contract instructions (Clause 17).		
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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: .....	Item	
19	F: ..... V: ..... T: .....	Item	
20	F: ..... V: ..... T: .....	Item	
21	F: ..... V: ..... T: .....	Item	
22	F: ..... V: ..... T: .....	Item	
23	F: ..... V: ..... T: .....	Item	
<b><u>COMPLETION</u></b>			
24	Practical completion (Clause 24).  F: ..... V: ..... T: .....	Item	
25	Works completion (Clause 25).  F: ..... V: ..... T: .....	Item	
	Final completion (Clause 26).		
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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	
<b><u>CANCELLATION</u></b>			
	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: .....	Item	
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	<b><u>DISPUTE</u></b>		
38	Dispute Settlement (Clause 40) F: ..... V: ..... T: .....	Item	
39	<b><u>SUBSTITUTE PROVISIONS</u></b> State Clauses (Clause 41) F: ..... V: ..... T: .....	Item	
40	<b><u>CONTRACT VARIABLES</u></b> The Schedule: Pre-Tender information (Clause 42). F: ..... V: ..... T: .....	Item	
	<b><u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u></b> 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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<b><u>CONTRACT DETAILS (Clause 42.2)</u></b>			
Clause 42.2.1			
Works Description: Construction of new ablution facilities.			
Clause 42.2.2			
Site Description: The site is the existing school.			
Clause 42.2.3			
Work or Installations by Others: NIL			
Clause 42.2.4			
This Agreement is for a State Contract :- Yes			
Payment will be made for materials and goods:- Yes			
Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.			
Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A			
Clause 42.2.5			
Date on which possession of the site is intended to be given on :-			
To be advised.			
Clause 42.2.6			
Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.			
Completion in Sections are required : NO			
Clause 42.2.7			
Intended date of practical completion and the penalty per calendar day for the works as a whole :-			
To be advised.			
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Penalty amount will be R2000.00 per calendar day with the total not exceeding 10% of the 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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	<p>Clause 42.4.2 Number of construction document copies to be supplied to the Contractor free of charge :- 1</p> <p>Clause 42.4.3 Bills of Quantities drawn up in accordance with :- Standard System of Measuring Building Work - Seventh Edition including all amendments</p> <p>Clause 42.4.4 Number of days for submission of priced documents : 5 working days from the Letter of Appointment.</p> <p>Clause 42.4.5 JBCC Engineering General Conditions are to be included in the documents :- No</p> <p>Clause 42.4.6 The contract value is to be adjusted using CPAP:- NO</p>		
<b>41</b>	F: ..... V: ..... T: .....	Item	
<b>42</b>	F: ..... V: ..... T: .....	Item	R

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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: .....	Item	
	Availability of construction documentation (B2.3)		
44	F: ..... V: ..... T: .....	Item	
	Interests of Agents (B2.4)		
45	F: ..... V: ..... T: .....	Item	
	Priced documents (B2.5)		
46	F: ..... V: ..... T: .....	Item	
	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.		
47	F: ..... V: ..... T: .....	Item	
	<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.		
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	
50	Inspection of the Site (B3.3)  F: ..... V: ..... T: .....	Item	
51	Existing premises occupied (B3.4)  F: ..... V: ..... T: .....	Item	
52	Previous work - dimensional accuracy (B3.5)  F: ..... V: ..... T: .....	Item	
53	Previous work - defects (B3.6)  F: ..... V: ..... T: .....	Item	
54	Services - known (B3.7)  F: ..... V: ..... T: .....	Item	
55	Services - unknown (B3.8)  F: ..... V: ..... T: .....	Item	
56	Protection of trees (B3.9)  F: ..... V: ..... T: .....	Item	
57	Articles of value (B3.10)  F: ..... V: ..... T: .....	Item	
58	Inspection of adjoining properties (B3.11)  F: ..... V: ..... T: .....	Item	
	<b><u>MANAGEMENT OF CONTRACT (B4)</u></b>		
59	Management of the Works (B4.1)  F: ..... 10% ..... V: ..... 15% ..... T: ..... 75% .....	Item	
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	Programme for the Works (B4.2)		
0	F: ..... V: ..... T: .....	Item	
	Progress meetings (B4.3)		
1	F: ..... V: ..... T: .....	Item	
	Technical meetings (B4.4)		
2	F: ..... V: ..... T: .....	Item	
	<b><u>SAMPLES AND SHOP DRAWINGS (B5)</u></b>		
	Samples of materials (B5.1)		
3	F: ..... V: ..... T: .....	Item	
	Workmanship samples (B5.2)		
4	F: ..... V: ..... T: .....	Item	
	Shop drawings (B5.3)		
5	F: ..... V: ..... T: .....	Item	
	<b><u>TEMPORARY WORKS AND PLANT (B6)</u></b>		
	Deposits and fees (B6.1)		
6	F: ..... V: ..... T: .....	Item	
	Enclosure of the works (B6.2)		
	The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.		
7	F: ..... V: ..... T: .....	Item	
	Advertising (B6.3)		
8	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: .....	Item	
85	F: ..... V: ..... T: .....	Item	
	<b><u>GENERAL (B11)</u></b>		
86	Protection of the Works (B11.1)	Item	
87	F: ..... V: ..... T: .....	Item	
88	Protection/isolation of existing/sectionally occupied works (B11.2)	Item	
89	F: ..... V: ..... T: .....	Item	
90	Site security (B11.3)	Item	
91	F: ..... V: ..... T: .....	Item	
92	Notice before covering work (B11.4)	Item	
93	F: ..... V: ..... T: .....	Item	
	Disturbance (B11.5)	Item	
	Works cleaning and clearing (B11.6)	Item	
	Vermin (B11.7)	Item	
	Overhand work (B11.8)	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: ..... Iter

## 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 E: ..... V: ..... T: ..... Iter

### 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: ..... Iter

#### C4. Overtime

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<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 the execution thereof, that costs for such overtime are to be borne by the employer.</p>		
97	F: ..... V: ..... T: .....	Item
<p><b>C5. As built drawings</b></p> <p>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.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p>		
98	F: ..... V: ..... T: .....	Item
<p><b>C6. Construction Instructions</b></p> <p>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:</p>		
<p>a) Construction Instruction Book:</p> <p>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.</p>		
<p>Only instructions issued in such book shall be recognised.</p>		
<p>b) Daily Record Book:</p>		
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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>		
<p>F: ..... V: ..... T: .....</p>		Item
<p><b>C7. Labour record</b></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>		
<p>F: ..... V: ..... T: .....</p>		Item
<p><b>C8. Plant record</b></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>		
<p>F: ..... V: ..... T: .....</p>		Item
<p><b>C9. Encroachment</b></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>		
<p>F: ..... V: ..... T: .....</p>		Item
<p><b>C10. Method Statement</b></p>		

<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> <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> <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> <p>F: ..... V: ..... T: .....</p>	<p>Item</p> <p>Item</p> <p>Item</p>	
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	C13. Location of Temporary Buildings and Temporary Services		
	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.		
	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.		
106	F: ..... V: ..... T: .....	Item	
	<b><u>C14. Office accommodation</u></b>		
	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]		
107	F: ..... V: ..... T: .....	Item	
	<b><u>C15. Storage Facilities</u></b>		
108	The Contractor shall provide a Container for storage of materials.	Item	
109	F: ..... V: ..... T: .....	Item	
	<b><u>C16. Removal and Making Good of Temporary Works, etc, on Completion</u></b>		
	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.		
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# LUKHANYISO JUNIOR SECONDARY SCHOOL - COMPLETION THE MVULA TRUST SAFE PROGRAMME

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<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.	Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item
5	Provision of full time Health and Safety Officer for the entire construction period.	Item
6	Induction training of personnel.	No 20
7	Provision of first aid boxes.	No 1
8	Allow for <b>maintaining approximately 475m long existing temporary barricading for the duration of the contract</b> , keeping it in compliance with 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	Item
<b><u>Provision for Personal Protective Equipment and Protective Clothing:</u></b>		
9	Reflective vests.	No 20
10	Hard hats.	No 20
11	Protective foot wear.	No 20
12	Ear Plugs.	No 20
13	Dust Masks.	No 20
<b>Carried to Collection</b>		
Section 1 Bill No. 2 Health and Safety		R



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Section 1 Bill No. 2 Health and Safety <b><u>COLLECTION</u></b>	Page No	Amount
Total Brought Forward from Page No.	26	
	27	
	28	
<b>Carried Forward to Summary of Section No. 1</b>	R	
Section 1 Bill No. 2 Health and Safety		

Bill No	Section 1	Page No	Amount
<b><u>SECTION SUMMARY - PRELIMINARIES</u></b>			
	Preliminaries	25	
	Health and Safety	29	
<b>Carried to Final Summary</b>			
Section 1		R	

Item No	Quantity	Rate	Amount
<b><u>SECTION 2</u></b>			
<b><u>BILL No. 1</u></b>			
<b><u>DEMOLITIONS</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>			
<b><u>View site</u></b>			
<p>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</p>			
<b><u>Explosives</u></b>			
<p>No explosives whatsoever may be used for demolition purposes unless otherwise stated.</p>			
<b><u>General</u></b>			
<p>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.</p>			
<p>Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.</p>			
<b>Carried to Collection</b>			
Section 2 Bill No. 1 Demolitions			
R			

**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**

Section 2  
Bill No. 1  
Demolitions

R

<b><u>DEMOLISHING AND REMOVING</u></b>			
1	Demolish pit latrine structure comprising of brick/block work with corrugated roof sheeting, approximate size 3 x 3m wide with 2.8m high top structure and 2.0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	3
2	Demolish pit latrine structure comprising of asbestos structures, approximate size 19 x 1.66m wide with 2.5m high top structure and 2.0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	2
3	Cart away rubble from demolitions and dispose off site.		Item
4	Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density.	m3	186
5	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	5
6	Provision of a certificate of safe disposal for asbestos.		Item
<b><u>SUNDRIES</u></b>			
	<b><u>Desludging</u></b>		
7	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	24
8	Issue of Certificate of Waste Disposal.		Item
<b><u>THE FOLLOWING IN WALKWAYS</u></b>			
	<b><u>Earthworks</u></b>		
9	<b><u>Excavate in pickable material in confined spaces not exceeding 2m deep below natural.</u></b>	m3	126
	<b><u>Extra over excavated material</u></b>		
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	126
<b><u>Carried to Collection</u></b>			
Section 2			
Bill No. 1			
Demolitions			

<b><u>Concrete Paving Blocks</u></b>				
<u>Carefully remove existing paving blocks and set aside for reuse.</u>				
11	Paving to walkway areas, etc laid to falls.	m2	310	
<b><u>GARDEN WALL</u></b>				
<u>Concrete</u>				
12	Strip footings.	m3	16	
<b><u>BRICKWORK IN FOUNDATIONS.</u></b>				
13	One brick walls.	m2	137	
<b><u>FACE BRICK IN SUPERSTRUCTURE</u></b>				
14	One brickwall faced on both sides.	m2	137	
<u>Brick-on-edge header course copings, sills, etc</u>				
15	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	137	
<b>Carried to Collection</b>				
Section 2				
Bill No. 1				
Demolitions				
				R

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Item No		Quantity	Rate	Amount
<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 6</u></b></p> <p><b><u>CARPENTRY &amp; JOINERY</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - DWG 10 - Male Ablutions  A1 - DWG 04 - Staff Ablutions  A6 - DWG 07 - Grade R Ablutions  AD - DWG 17 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <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> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>FIXING</u></b></p> <p>All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.</p> <p>Carried to Collection</p> <p>Section 3  Bill No. 1  Carpentry and Joinery</p>				

<b><u>CARPENTRY</u></b>				
<b><u>Sawn softwood:</u></b>				
<b><u>FRAMED FRAMES, ETC</u></b>				
1 76 x 228mm Treated Timber beamfilling.	m	134		
A0 : 38      A1 : 31      A6 : 28      AD : 38				
<b><u>QUADRANTS, ETC</u></b>				
<b><u>Meranti quadrants nailed to wall - four per style:</u></b>				
2 50mm treated timber quadrants	m	87		
A0 : 23      A1 : 18      A6 : 14      AD : 32				
Carried to Collection				
Section 3 Bill No. 1 Carpentry and Joinery			R	

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Section 3			
Bill No. 1			
Carpentry and Joinery			
<b><u>COLLECTION</u></b>			
	Page No		Amount
Total Brought Forward from Page No.	36		
	37		
<b>Carried Forward to Summary of Section No. 3</b>			
Section 3			
Bill No. 1			
Carpentry and Joinery			
	R		



## **SIGN PLATES:**

**All sign plates are to be with engraved blue perspex**  
**all in accordance with the standard sign plates for**  
**Schools.**

1 Sign plate plugged and screwed to walls with chromium plated dome headed screws.

A0 : 1      A1 : 3      A6 : 2      AD : 1

No

7

## Carried to Collection

Section 3  
Bill No. 2  
Ironmongery

R

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Section 3 Bill No. 2 Ironmongery	Carried to Collection	R
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Section 3 Bill No. 2 Ironmongery <b><u>COLLECTION</u></b>	Page No	Amount
Total Brought Forward from Page No.	39	
	40	
	41	
<b>Carried Forward to Summary of Section No. 3</b>	R	
Section 3 Bill No. 2 Ironmongery		

Item No		Quantity	Rate	Amount
<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 11</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - DWG 10 - Male Ablutions  A1 - DWG 04 - Staff Ablutions  A6 - DWG 07 - Grade R Ablutions  AD - DWG 17 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <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> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Trade Names</u></b></p> <p>Where trade names are specified it will read "or equal approved"</p> <p><b><u>Epoxy paint</u></b></p> <p>The product and its methodology for application must be approved by Principal Agent before it is used.</p> <p>Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.</p> <p>Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 3  Bill No. 3  Paintwork</p>				R

<b><u>PAINTWORK ETC TO NEW WORK</u></b>						
<b><u>ON WOOD</u></b>						
<b><u>Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:</u></b>						
1	On doors			m2	94	
	A0 : 16	A1 : 21	A6 : 28	AD : 29		
2	On door frames			m2	29	
	A0 : 5	A1 : 6	A6 : 8	AD : 9		
Carried to Collection						
Section 3						
Bill No. 3						
Paintwork						
					R	

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Section 3			
Bill No. 3			
Paintwork			
<b><u>COLLECTION</u></b>			
	Page No		Amount
Total Brought Forward from Page No.	43		
	44		
<b>Carried Forward to Summary of Section No. 3</b>			
Section 3			
Bill No. 3			
Paintwork			
	R		

Bill No	Section 3	Page No	Amount
<b><u>SECTION SUMMARY - BUILDING WORKS</u></b>			
	Carpentry and Joinery	38	
	Ironmongery	42	
	Paintwork	45	
Section 3		Carried to Final Summary	R

Item No		Quantity	Rate	Amount
	<b><u>SECTION No. 4</u></b>			
	<b><u>BILL No. 1</u></b>			
	<b><u>EXTERNAL WORKS (PROVISIONAL)</u></b>			
	<b><u>THE FOLLOWING IN WALKWAYS</u></b>			
	<u>Excavation not exceeding 2m deep</u>			
1	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	144	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
2	Off site to a dumping site to be found by the Contractor.	m3	120	
	<u>Filling supplied by the contractor under walkways</u>			
3	G7 Base course material compacted to 98% Mod AASHTO density	m3	99	
4	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	33	
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>			
5	Under floors,etc.	m2	744	
	<u>Prescribed density tests on filling:</u>			
6	In-situ dry density test.	No	10	
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>			
7	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	744	
	<b><u>Concrete Paving Blocks</u></b>			
		<b>Carried to Collection</b>		
	Section 4			
	Bill No. 1			
	External Works			
			R	

	<u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u>			
8	Paving to walkway areas, etc laid to falls.  <u>Reinstall previously removed pavers in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u>	m2	46	
9	Paving to walkway areas, etc laid to falls.	m2	310	
<b><u>STORMWATER CHANNELS</u></b>				
	<u>Excavation not exceeding 2m deep</u>			
10	Reducing levels and depositing excavated material in prescribed stock piles on site.  <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>	m3	34	
11	Off site to a dumping site to be found by the Contractor.  <u>Filling supplied by the contractor under channels</u>	m3	34	
12	G7 Base course material compacted to 98% Mod AASHTO density	m3	13	
13	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	11	
<b>Carried to Collection</b>				
Section 4 Bill No. 1 External Works				R

<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>			
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	121	
Extra for 700mm angle	No	25	
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 into gabion mattress using double twisted hexagonal mesh type 80 with 3.4mm OD frame wire and 2.7mm OD mesh wire to SANS 1480:2005: 1m wide x 1,96m long x 0,15m thick.	No	4	
<u>Sundries:</u>			
Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	15	
Construct shaped earth V-drain 2m wide with grass runners	m	15	
<b><u>THE FOLLOWING IN GARDEN WALLS</u></b>			
<b><u>SCREEN / GARDEN WALL</u></b>			
<u>Excavation in earth not exceeding 2m deep:</u>			
Trenches.	m3	45	
<u>Extra over all excavations for carting away:</u>			
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	45	
<b>Carried to Collection</b>			R
Section 4			
Bill No. 1			
External Works			

	<u>Risk of collapse of excavations:</u>			
21	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	180	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
22	Backfilling to trenches, holes, etc.	m3	14	
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>			
23	Under footings.	m3	50	
	<u>Compaction of surfaces</u>			
24	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	63	
	<u>25 Mpa/19mm Concrete</u>			
25	Strip footings.	m3	41	
	<u>Test blocks:</u>			
26	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	7	
	<u>Reinforcement (Provisional)</u>			
27	High tensile steel reinforcement bars to structural concrete work.	t	1.50	
	<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>			
28	One brick walls.	m2	360	
	<u>Carried to Collection</u>			
	Section 4			
	Bill No. 1			
	External Works			

<b><u>BRICKWORK IN SUPERSTRUCTURE</u></b>			
<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>			
29	One brick walls.	m2	90
<u>Brickwork reinforcement:</u>			
30	230mm Wide reinforcement built in horizontally.	m	720
31	Ditto but in foundations.	m	360
<b><u>FACE BRICK</u></b>			
<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>			
32	One brickwall faced on both sides.	m2	360
<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>			
33	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	360
<b><u>ACCESS RAMPS</u></b>			
<u>Excavation not exceeding 2m deep</u>			
34	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	1
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
35	Off site to a dumping site to be found by the Contractor.	m3	1
<b>Carried to Collection</b>			
Section 4 Bill No. 1 External Works			

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	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
36	G7 Base course material compacted to 98% Mod AASHTO density	m3	5		
37	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	1		
	<u>Coarse river sand filling supplied by the contractor:</u>				
38	Under floors etc.	m3	0.5		
	<u>Compaction of surfaces:</u>				
39	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	9		
	<u>Prescribed density tests on filling:</u>				
40	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
41	Ramps, Landings, etc.	m3	1		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
42	Surface beds, slabs, etc to falls and currents.	m2	9		
	<u>Test blocks:</u>				
43	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
44	12mm Joints not exceeding 300mm high.	m	6		
	<b>Carried to Collection</b>				
Section 4 Bill No. 1 External Works				R	

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<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>			
<u>Excavation not exceeding 2m deep</u>			
Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	56	
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
Off site to a dumping site to be found by the Contractor.	m3	56	
<u>Filling supplied by the contractor under driveways</u>			
G7 Base course material compacted to 98% Mod AASHTO density	m3	56	
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	56	
<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>			
Under floors,etc.	m2	332	
<u>Prescribed density tests on filling:</u>			
In-situ dry density test.	No	4	
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>			
Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	372	
<u>150-175mm diameter bollards</u>			
2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	10	
<b>Carried to Collection</b>			R
Section 4			
Bill No. 1			
External Works			

<b>THE FOLLOWING IN RETAINING WALLS, ETC.</b>			
<u>Excavation in earth not exceeding 2m deep</u>			
Trenches.	m3	11	
<u>Risk of collapse of excavations:</u>			
Sides of trench and hole excavations not exceeding 1,5m deep.	m2	24	
<u>Keeping excavations free of water:</u>			
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>			
Off site to a dumping site to be found by the Contractor.	m3	11	
<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>			
Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	18	
<u>Compaction of surfaces</u>			
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	12	
<u>15Mpa/19mm Concrete</u>			
Surface blinding under footings and bases.	m3	1	
<u>30Mpa/19mm Concrete</u>			
Strip footings.	m3	5	
Cavity walls.	m3	17	
<b>Carried to Collection</b>			
Section 4			
Bill No. 1			
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	<u>Test blocks:</u>				
65	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1		
	<u>Fabric reinforcement:</u>				
66	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	188		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
67	330mm thick cavity brick Walls made of two leafs of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured).	m2	161		
	<u>Brickwork reinforcement:</u>				
68	230mm Wide reinforcement built in horizontally.	m	295		
69	75mm Wide reinforcement built in horizontally.	m	520		
	<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>				
70	Extra over brickwork for face brickwork externally.	m2	161		
	<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>				
71	220mm 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	77		
	<u>Openings in Walls etc.</u>				
72	Leave or form 32mm weep hole through one brick wall	No	23		
	<u>Membranes</u>				
73	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	46		
	<b>Carried to Collection</b>				
	Section 4 Bill No. 1 External Works			R	

	<u>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:</u>			
74	19mm Stone.	m3	7	
<b><u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u></b>				
<u>Site Clearance, ETC</u>				
75	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	100	
<u>Excavation in earth not exceeding 2m deep:</u>				
76	Trenches.	m3	264	
<u>Extra over all excavations for carting away:</u>				
77	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	106	
<u>Risk of collapse of excavations:</u>				
78	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	90	
79	Ditto, but from ground level to exceeding 1,5m.	m2	308	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
80	Backfilling to trenches, holes, etc.	m3	185	
<u>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:</u>				
81	19mm Stone.	m3	13	
<u>Membrane</u>				
82	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	168	
<b>Carried to Collection</b>				
Section 4 Bill No. 1 External Works				

<u>Keeping excavations free of water:</u>			
3	Keeping excavations free from mud and all water including subterranean sources.	Item	
<u>Compaction of surfaces</u>			
4	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	120
<b><u>SOIL DRAINAGE</u></b>			
<u>110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>			
5	110mm uPVC pipe.	m	100
<u>Extra for:</u>			
6	110mm Tee.	No	5
7	110mm Y junction.	No	3
<b><u>THE FOLLOWING IN SOAKAWAY</u></b>			
<u>Site Clearance, Etc</u>			
8	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	13
<u>Excavation in earth not exceeding 2m deep:</u>			
9	Holes	m3	3
<u>Extra over all excavations for carting away</u>			
0	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	1
<b>Carried to Collection</b>			
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**LUKHANYISO JUNIOR SECONDARY SCHOOL - COMPLETION  
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105	One brick wall of 14 MPa NFX bricks.	m2	5			
106	230mm Wide reinforcement built in horizontally.	m	20			
107	Plaster on brick walls.	m2	5			
108	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	3			
<b>Carried to Collection</b>						
Section 4 Bill No. 1 External Works				R		

LUKHANYISO JUNIOR SECONDARY SCHOOL - COMPLETION  
THE MVULA TRUST SAFE PROGRAMME

Section 4 Bill No. 1 External Works <b><u>COLLECTION</u></b>	Page No	Amount
Total Brought Forward from Page No.	47	
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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	30	
2	DEMOLITIONS (PROVISIONAL)	35	
3	BUILDING WORKS	46	
4	EXTERNAL WORKS (PROVISIONAL)	61	
5	PROVISIONAL SUMS	62	
	SUB-TOTAL	R	
	<b><u>CONTINGENCIES</u></b>	Item	100 000.00
	Allow the amount of R100 000.00 (One Hundred Thousand Rand Only) for contingencies, to be used at the discretion of the Architect and to be omitted in whole or in part		
	SUB-TOTAL	R	
	<b>Add Value Added Tax at the rate of 15%</b>	R	
	<b>Carried to Form of Offer and Acceptance</b>	R	