

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

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: .....

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Compliance with regulations (Clause 7).

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

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8	<p>Works risk (Clause 8)</p> <p>F: ..... V: ..... T: .....</p>	Item		
	<p>Indemnities (Clause 9).</p> <p>Clause 9.1.1 is deleted and substituted with:</p> <p>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'.</p>			
9	<p>F: ..... V: ..... T: .....</p> <p>Works insurances (Clause 10).</p>	Item		
10	<p>F: ..... V: ..... T: .....</p> <p>Liability insurances (Clause 11).</p>	Item		
11	<p>F: ..... V: ..... T: .....</p> <p>Effecting insurances (Clause 12).</p>	Item		
12	<p>F: ..... V: ..... T: .....</p> <p>State Provisions (Clause 13).</p>	Item		
13	<p>F: ..... V: ..... T: .....</p> <p>Security (Clause 14).</p>	Item		
14	<p>F: ..... V: ..... T: .....</p> <p><b><u>EXECUTION</u></b></p> <p>Preparation for and execution of the works (Clause 15).</p>	Item		
15	<p>F: ..... V: ..... T: .....</p> <p>Access to the works (Clause 16).</p>	Item		
16	<p>F: ..... V: ..... T: .....</p> <p>Contract instructions (Clause 17).</p>	Item		
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17	F: ..... V: ..... T: .....	Item	
	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.		
18	F: ..... V: ..... T: .....	Item	
	Assignment (Clause 19).		
19	F: ..... V: ..... T: .....	Item	
	Nominated subcontractors (Clause 20).		
20	F: ..... V: ..... T: .....	Item	
	Selected subcontractors (Clause 21).		
21	F: ..... V: ..... T: .....	Item	
	Employer's Direct contractors (Clause 22).		
22	F: ..... V: ..... T: .....	Item	
	Contractor's Domestic subcontractors (Clause 23).		
23	F: ..... V: ..... T: .....	Item	
	<b><u>COMPLETION</u></b>		
	Practical completion (Clause 24).		
24	F: ..... V: ..... T: .....	Item	
	Works completion (Clause 25).		
25	F: ..... V: ..... T: .....	Item	
	Final completion (Clause 26).		
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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: .....

Item

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: ..... Item

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**DISPUTE**

Dispute Settlement (Clause 40)

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

Item

**SUBSTITUTE PROVISIONS**

State Clauses (Clause 41)

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

Item

**CONTRACT VARIABLES**

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

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

Item

**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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**CONTRACT DETAILS (Clause 42.2)**

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 R2 000.00 per calendar day.

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 plus 10%

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: .....

Item

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: .....

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

**THE SITE (B3)**

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: .....

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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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	Programme for the Works (B4.2)			
60	F: ..... V: ..... T: .....	Item		
	Progress meetings (B4.3)			
61	F: ..... V: ..... T: .....	Item		
	Technical meetings (B4.4)			
62	F: ..... V: ..... T: .....	Item		
	<b><u>SAMPLES AND SHOP DRAWINGS (B5)</u></b>			
	Samples of materials (B5.1)			
63	F: ..... V: ..... T: .....	Item		
	Workmanship samples (B5.2)			
64	F: ..... V: ..... T: .....	Item		
	Shop drawings (B5.3)			
65	F: ..... V: ..... T: .....	Item		
	<b><u>TEMPORARY WORKS AND PLANT (B6)</u></b>			
	Deposits and fees (B6.1)			
66	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.			
67	F: ..... V: ..... T: .....	Item		
	Advertising (B6.3)			
68	F: ..... V: ..... T: .....	Item		
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69	Plant and equipment (B6.4) F: ..... V: ..... T: .....	Item	
	Main notice board (B6.5) One notice board shall be provided by the Contractor		
70	F: ..... V: ..... T: ..... Subcontractors notice board (B6.6) (N/A)	Item	
71	F: ..... V: ..... T: ..... <b><u>TEMPORARY SERVICES (B7)</u></b>	Item	
	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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	<p>Ablution facilities (B7.5)</p> <p>The contractor shall provide toilet facilities on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p>				
76	<p>F: ..... V: ..... T: .....</p> <p><b><u>PRIME COST AMOUNTS (B8)</u></b></p> <p>Responsibility for prime cost amounts (B8.1)</p>	Item			
77	<p>F: ..... V: ..... T: .....</p> <p><b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b></p> <p>General Attendance (B9.1)</p>	Item			
78	<p>F: ..... V: ..... T: .....</p> <p>Special Attendance (B9.2)</p>	Item			
79	<p>F: ..... V: ..... T: .....</p> <p>Commissioning - fuel, water and power (B9.3)</p>	Item			
80	<p>F: ..... V: ..... T: .....</p> <p><b><u>FINANCIAL ASPECTS (B10)</u></b></p> <p>Statutory taxes, duties and levies (B10.1)</p> <p>Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).</p>	Item			
81	<p>F: ..... V: ..... T: .....</p> <p>Payment of Preliminaries (B10.2)</p>	Item			
82	<p>F: ..... V: ..... T: .....</p> <p>Adjustment of Preliminaries (B10.3)</p>	Item			
83	<p>F: ..... V: ..... T: .....</p> <p>Payment certificate cash flow (B10.4)</p>	Item			
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Contractor information supply (B10.5)

Item

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

Item

**GENERAL (B11)**

Protection of the Works (B11.1)

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

Item

Protection/isolation of existing/sectionally occupied works (B11.2)

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

Item

Site security (B11.3)

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

Item

Notice before covering work (B11.4)

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

Item

Disturbance (B11.5)

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

Item

Works cleaning and clearing (B11.6)

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

Item

Vermin (B11.7)

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

Item

Overhand work (B11.8)

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

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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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97	<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> <p>F: ..... V: ..... T: .....</p>	Item		
	<p>C5. As built drawings</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	<p>F: ..... V: ..... T: .....</p> <p>C6. Construction Instructions</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>	Item		
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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.

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

Item

**C7. Labour record**

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.

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

Item

**C8. Plant record**

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.

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

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**C9. Encroachment**

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.

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

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**C10. Method Statement**

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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><b>C11. Unauthorised Persons/Workmen on Premises</b></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><b>C12. Mode of Procedure</b></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		
	<p align="center"><b>Carried to Collection</b></p> <p>Section 1 Bill No. 1 Preliminaries</p>		R	

106	<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> <p>F: ..... V: ..... T: .....</p>	Item	
	<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> <p>F: ..... V: ..... T: .....</p>	Item	
	<p><b><u>C15. Storage Facilities</u></b></p> <p>The Contractor shall provide a Container for storage of materials.</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<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> <p>F: ..... V: ..... T: .....</p>	Item	
	<p><b>Carried to Collection</b></p>		R
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111	SUB - TOTAL: FIXED ITEMS	Item	
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item	
113	SUB - TOTAL: TIME - RELATED ITEMS	Item	
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Item No	Quantity	Rate	Amount
<p><b><u>SECTION 1</u></b></p>			
<p><b><u>BILL No. 2</u></b></p>			
<p><b><u>HEALTH AND SAFETY</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" 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>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>			
<p align="right"><b>Carried to Collection</b></p>			
<p>Section 1 Bill No. 2 Health and Safety</p>			
			R

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

**OCCUPATIONAL HEALTH AND SAFETY**

**General:**

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	5
7	Provision of first aid boxes.	No	1
8	Rental of temporary plastic ablutions approximate size 1,2 x 1,2 x 2,3m high for the sole use by the school, for 8 months inclusive of servicing on a regular basis. Ablutions are to be kept clean and in operation for the duration.	No	2
9	Transportation and establishment on site and de-establishment on completion temporary ablutions approximate size 1,2 x 1,2 x 2,3m high.	No	2
10	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	164
11	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1

**Provision for Personal Protective Equipment and Protective Clothing:**

12	Reflective vests.	No	15
13	Hard hats.	No	15

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14	Protective foot wear.	No	15
15	Ear Plugs.	No	15
16	Dust Masks.	No	15
<b><u>Costs of Medical Certificates and Medical Surveillance:</u></b>			
17	Initial (baseline) medical examinations.	No	15
18	Exit Examinations.	No	15

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Item No	Quantity	Rate	Amount
<p><b><u>SECTION 2</u></b></p>			
<p><b><u>BILL No. 1</u></b></p>			
<p><b><u>DEMOLITIONS</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" 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>View site</u></b></p>			
<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>			
<p><b><u>Explosives</u></b></p>			
<p>No explosives whatsoever may be used for demolition purposes unless otherwise stated.</p>			
<p><b><u>General</u></b></p>			
<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>			
<p><b>Carried to Collection</b></p>			
<p>Section 2 Bill No. 1 Demolitions</p>			
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**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 comprising of brick/block work with corrugated roof sheeting, approximate size 6 x 3m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	5
2	Demolish pit latrine structure comprising of brick/block work with asbestos roof sheeting, approximate size 6 x 3m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	1
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	100
5	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	10
6	Provision of a certificate of safe disposal for asbestos.		Item

**SUNDRIES**

**Desludging**

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	6
8	Issue of Certificate of Waste Disposal.		Item

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<p><b><u>BILL No. 1</u></b></p>			
<p><b><u>ALTERATIONS (PROVISIONAL)</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 18 - Girls &amp; Boys Ablutions</p>			
<p>A1 - DWG 03 - Staff Ablutions</p>			
<p>A3 - Existing GR R Alterations</p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" 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>Existing Furniture, Equipment, etc</u></b></p>			
<p>The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done</p>			
<p align="center"><b>Carried to Collection</b></p>			
<p>Section 3 Bill No. 1 Alterations (Provisional)</p>			
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**Damage to existing finishes**

The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account

**Responsibility for site**

The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above

**Explosives**

No explosives whatsoever may be used for demolition purposes unless otherwise stated

**General**

The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent

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Water supply pipes and other piping 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

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

**"Taking out and removing doors, windows, etc"** implies that the door, etc is to be carefully taken down together with the fame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing

**"Forming openings"** for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing

**"Making good"** implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

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The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing

**"Breaking down and removing"** walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for plaster or other finishings as described

Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained

**"Building up openings"** implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described.

**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.

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**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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**REMOVAL OF EXISTING WORK**

1 Allow for watering the works to prevent any nuisance from dust, etc. and supply, erect and remove on completion all temporary dust screens, etc. required. Item

2 Allow for protecting all existing work liable to suffer damage (i.e. Walls, finishes, floors, windows, etc.) from damage during the building operations, alterations, etc., and make good all work damaged with new material to match existing to the approval of the principal agent. Item

**Take out and remove doors, windows, etc from brickwork to remain**

3 Timber single door 813 x 2032mm high including frame. No 3  
                   A0 : 0      A1 : 0      A3 : 3

4 Timber single door 900 x 2032mm high including frame. No 1  
                   A0 : 0      A1 : 0      A3 : 1

**Take down and remove roofs, floors, panelling, ceilings, partitions, etc**

5 Rainwater gutters and fittings m 30  
                   A0 : 0      A1 : 0      A3 : 30

6 Rainwater downpipes and fittings m 10  
                   A0 : 0      A1 : 0      A3 : 10

**Hack up/off and removing grano, screed, plaster & prepare surface to receive new**

7 External plaster to brickwork in patches m2 20  
                   A0 : 0      A1 : 0      A3 : 20

**Breaking up and removing reinforced concrete**

8 200 - 300mm Thick surface beds. m2 4  
                   A0 : 0      A1 : 0      A3 : 4

**Breaking down and removing brickwork etc**

9 One brick walls. m2 2  
                   A0 : 0      A1 : 0      A3 : 2

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<b><u>Prepare existing surfaces for new finish</u></b>					
10	Clean down, etc. existing emulsion painted internal and external plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish. A0 : 0      A1 : 0      A3 : 75	m2	75		
<b><u>Taking out and removing sundry joinery work, fittings, etc.</u></b>					
11	Toilet paper holder from wall. A0 : 0      A1 : 0      A3 : 4	No	4		
12	Hat and coat hook from wall. A0 : 0      A1 : 0      A3 : 1	No	1		
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u></b>					
13	Average 30mm Screed from floors. A0 : 0      A1 : 0      A3 : 16	m2	16		
14	Damaged plaster on soffits. A0 : 0      A1 : 0      A3 : 2	m2	2		
<b><u>Taking out and removing glass and mirrors:</u></b>					
15	Glass from steel windows including cleaning out rebates and preparing for new glass. A0 : 0      A1 : 0      A3 : 2	m2	2		
<b><u>BUILDING UP OPENINGS</u></b>					
<b><u>Brickwork in NFP bricks in class II mortar in building up opening</u></b>					
16	One brick walls. A0 : 0      A1 : 0      A3 : 2	m2	2		
<b><u>MAKING GOOD OF FINISHES ETC</u></b>					
<b><u>Making good internal and external cement plaster</u></b>					
17	Walls in patches. A0 : 0      A1 : 0      A3 : 6	m2	6		
18	25 x 0.9mm galvanised chicken mesh wall plaster in patches. A0 : 0      A1 : 0      A3 : 6	m2	6		
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<b><u>Repairs to structural cracks, etc</u></b>				
19	Rake out existing minor structural crack in brick work, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere).	m	10	
	A0 : 0      A1 : 0      A3 : 10			
<b><u>HOLES ETC</u></b>				
<b><u>Core drilling hole exceeding 250mm and not exceeding 500mm diameter</u></b>				
20	230mm Thick reinforced concrete slab, beam, wall, etc.	No	2	
	A0 : 0      A1 : 0      A3 : 2			
<b><u>Core drilling hole exceeding 500mm and not exceeding 750mm diameter</u></b>				
21	230mm Thick reinforced concrete slab, beam, wall, etc.	No	2	
	A0 : 0      A1 : 0      A3 : 2			
<b><u>SUNDRIES (CPAP Work Group No 102):</u></b>				
22	Inspect existing corrugated iron roof sheeting in continous lengths, and securing any loose sheets, ridges, flashings, counter flashings, barge flashings etc. including replacing if deemed necessary to leave perfectly water tight, including cleaning on completion, all in accordance with the manufacturers instructions.	m2	75	
	A0 : 0      A1 : 0      A3 : 75			
23	Clean down existing facebrick walls by scrubbing with a hard bristled brush and with 'Polycell' sugar soap solution, removing all stains and fungi build up.	m2	120	
	A0 : 0      A1 : 0      A3 : 120			
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Section 3

Bill No. 1

Alterations (Provisional)

Item No	Quantity	Rate	Amount
<p><b><u>SECTION 3</u></b></p>			
<p><b><u>BILL No. 5</u></b></p>			
<p><b><u>WATERPROOFING</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 18 - Girls &amp; Boys Ablutions A1 - DWG 03 - Staff Ablutions A3 - Existing GR R Alterations</p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" 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>Proprietary products in descriptions:</u></b></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>			
<p><b><u>Waterproofing</u></b></p>			
<p>Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc</p>			
<p>Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).</p>			
<p align="right"><b>Carried to Collection</b></p>			
<p>Section 3 Bill No. 2 Waterproofing</p>			
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The product and its methodology for application must be approved by Principal Agent before it is used.

It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.

Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.

Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.

**Carried to Collection**

Section 3  
Bill No. 2  
Waterproofing

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**JOINT SEALANTS ETC**

**Clear Neutral silicone sealant:**

1	In joint sealing and pointing all round external window and door frames.	m	67	
	A0 : 45      A1 : 22      A3 : 0			

**Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc**

2	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	158	
	A0 : 90      A1 : 68      A3 : 0			

**WATERPROOFING TO PIT WALLS**

**Waterproofing product to plastered walls, subject to approval by the Principal Agent prior to application.**

3	On plastered wall surfaces including 100mm overlap at the base slab	m2	71	
	A0 : 37      A1 : 34      A3 : 0			

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Waterproofing

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Section 3

Bill No. 2

Waterproofing

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Waterproofing

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Item No	Quantity	Rate	Amount
<b><u>SECTION 3</u></b>			
<b><u>BILL No. 7</u></b>			
<b><u>CARPENTRY &amp; JOINERY</u></b>			
<b><u>Quantity Split:</u></b>			
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
A0 - DWG 18 - Girls & Boys Ablutions			
A1 - DWG 03 - Staff Ablutions			
A3 - Existing GR R Alterations			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "General Preambles for Trades 2017" 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>FIXING</u></b>			
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.			
<b>Carried to Collection</b>			
Section 3 Bill No. 3 Carpentry and Joinery			
			R

**CARPENTRY**

**Sawn softwood:**

1	38 x 152mm Rafters.	m	71	
	A0 : 44      A1 : 27      A3 : 0			

**Sundries:**

2	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	90	
	A0 : 45      A1 : 45      A3 : 0			

**EAVES, VERGES, ETC**

**"Everite Nutec" or equal approved fibre cement**

3	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	29	
	A0 : 18      A1 : 11      A3 : 0			

4	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.	m	18	
	A0 : 9      A1 : 9      A3 : 0			

**DOORS ETC**

**SANS Approved meranti:**

5	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1).	No	4	
	A0 : 2      A1 : 2      A3 : 0			

6	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	1	
	A0 : 0      A1 : 1      A3 : 0			

7	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4).	No	2	
	A0 : 2      A1 : 0      A3 : 0			

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Section 3  
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Carpentry and Joinery

**FRAMED FRAMES, ETC**

**Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:**

8	70 x 108mm rebated meranti frame .	m	28
	A0 : 19      A1 : 10      A3 : 0		

**Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:**

9	70 x 108mm rebated meranti frame .	m	5
	A0 : 0      A1 : 5      A3 : 0		

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Item No	Quantity	Rate	Amount
<b><u>SECTION 3</u></b>			
<b><u>BILL No. 8</u></b>			
<b><u>IRONMONGERY</u></b>			
<b><u>Quantity Split:</u></b>			
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
A0 - DWG 18 - Girls & Boys Ablutions			
A1 - DWG 03 - Staff Ablutions			
A3 - Existing GR R Alterations			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "General Preambles for Trades 2017" 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>Keys/Locks</u></b>			
Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys			
<b><u>Trade Names</u></b>			
Where trade names are specified other ironmongery approved by the Principal Agent may be used			
<b><u>Fixing</u></b>			
Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
<b>Carried to Collection</b>			
Section 3 Bill No. 4 Ironmongery			
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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**HINGES:**

1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	11.0	
	A0 : 4.0    A1 : 3.0    A3 : 4.0			

**LOCKS**

2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	5	
	A0 : 2    A1 : 3    A3 : 0			

3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	2	
	A0 : 2    A1 : 0    A3 : 0			

**HANDLES**

4	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	7	
	A0 : 4    A1 : 3    A3 : 0			

**Sundries:**

5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	2	
	A0 : 2    A1 : 0    A3 : 0			

6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	7	
	A0 : 4    A1 : 3    A3 : 0			

**SIGN PLATES:**

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

7	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	7	
	A0 : 2    A1 : 3    A3 : 2			

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Section 3  
Bill No. 4  
Ironmongery

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**SUNDRIES**

**Halcast or equal approved"**

8	Thiefproof toilet roll holder plugged.	No	11	
	A0 : 4      A1 : 3      A3 : 4			

**Grade 304 stainless steel ware:**

9	32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.	No	2	
	A0 : 0      A1 : 1      A3 : 1			

10	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.	No	2	
	A0 : 0      A1 : 1      A3 : 1			

**Satin Grey Plastics or equal approved**

11	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.	No	4	
	A0 : 2      A1 : 2      A3 : 0			

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Ironmongery

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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Ironmongery

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Bill No. 4

Ironmongery

Item No	Quantity	Rate	Amount
<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 9</u></b></p> <p><b><u>METALWORK</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 18 - Girls &amp; Boys Ablutions A1 - DWG 03 - Staff Ablutions A3 - Existing GR R Alterations</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" 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>The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent</p> <p><b><u>ALUMINIUM WINDOWS</u></b></p> <p>All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA.</p> <p>All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction.</p> <p>All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.</p>			
<b>Carried to Collection</b>			R
Section 3 Bill No. 5 Metalwork			

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**Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:**

1	Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01.	No	14
	A0 : 11      A1 : 3      A3 : 0		

**HOT DIP GALVANIZED STEEL GATES**

Note: The contractor is to check on site measurements before placing of order.

**Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:**

2	Security gate size 900 x 2050mm high (G1).	No	3
	A0 : 2      A1 : 1      A3 : 0		
3	Security double gate size 1800 x 2050mm high.	No	1
	A0 : 0      A1 : 1      A3 : 0		

**LOCKABLE MANHOLE COVERS**

4	600mm diameter lockable circular type M4A product or similar approved manhole SANS 1882 medium duty Dough Moulding compound 4A hinged lid and frame cast into concrete upstand.	No	4
	A0 : 2      A1 : 2      A3 : 0		

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Metalwork

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Metalwork

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 10</u></b></p> <p><b><u>PLASTERING</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 18 - Girls &amp; Boys Ablutions A1 - DWG 03 - Staff Ablutions A3 - Existing GR R Alterations</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" 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>SCREEDS</u></b></p> <p><b><u>Untinted granolithic, on concrete:</u></b></p>			
1	<p>30mm Thick on floors and landings. A0 : 29      A1 : 17      A3 : 16</p>	m2	62	
	<p><b>Carried Forward to Summary of Section No. 3</b></p> <p>Section 3 Bill No. 6 Plastering</p>			R

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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Item No		Quantity	Rate	Amount
	<b><u>SECTION 3</u></b>			
	<b><u>BILL No. 11</u></b>			
	<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>Quantity Split:</u></b>			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A0 - DWG 18 - Girls & Boys Ablutions			
	A1 - DWG 03 - Staff Ablutions			
	A3 - Existing GR R Alterations			
	<b><u>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	<b><u>RAINWATER DISPOSAL:</u></b>			
	<b><u>Watertite or equal approved Aluminium Gutters and Downpipes:</u></b>			
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres. A0 : 9      A1 : 6      A3 : 26	m	41	
2	Extra over eaves gutter for stopped end. A0 : 2      A1 : 2      A3 : 0	No	4	
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe. A0 : 2      A1 : 2      A3 : 0	No	4	
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured). A0 : 8      A1 : 8      A3 : 6	m	22	
5	Extra over rainwater downpipe for bends. A0 : 4      A1 : 4      A3 : 2	No	10	
	<b>Carried to Collection</b>			R
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	Plumbing and Drainage (Provisional)			

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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**TAPS, VALVES, ETC**

**Solid Cast brass taps, valves, etc:**

6	"Cobra KM2-200" or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	13
	A0 : 6      A1 : 6      A3 : 1		
7	15mm Ball-o-stop valve.	No	6
	A0 : 3      A1 : 3      A3 : 0		
8	22mm Non Return valve.	No	7
	A0 : 2      A1 : 4      A3 : 1		

**WASTE UNIONS ETC**

**Outlets, traps, etc:**

9	40mm Code 316 chrome plated unslotted waste outlet.	No	6
	A0 : 3      A1 : 3      A3 : 0		
10	40mm Rubber "P" or "S" trap	No	6
	A0 : 3      A1 : 3      A3 : 0		

**SANITARY FITTINGS**

**Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:**

11	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	4
	A0 : 0      A1 : 3      A3 : 1		
12	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	7
	A0 : 4      A1 : 0      A3 : 3		

**Vaal or equal approved:**

13	Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification.	No	7
	A0 : 3      A1 : 3      A3 : 1		

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Section 3  
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Plumbing and Drainage (Provisional)

**Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:**

14	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	1
	A0 : 1      A1 : 0      A3 : 0		

**SANITARY PLUMBING**

**PVC waste or vent pipes and fittings:**

15	50mm Waste pipe.	m	65
	A0 : 25      A1 : 30      A3 : 10		
16	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	34
	A0 : 12      A1 : 22      A3 : 0		
17	110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres.	m	28
	A0 : 16      A1 : 12      A3 : 0		

**uPVC gulleys**

18	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gully (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar.	No	2
	A0 : 1      A1 : 1      A3 : 0		

**Extra for:**

19	50mm Bend.	No	19
	A0 : 8      A1 : 9      A3 : 2		
20	50mm Access bend.	No	6
	A0 : 3      A1 : 3      A3 : 0		

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Section 3  
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Plumbing and Drainage (Provisional)

21	Envirosan or equal approved fly screens to top of 110 diameter vent pipe. A0 : 4      A1 : 3      A3 : 3	No	10		
<b><u>WATER SUPPLIES</u></b>					
<b><u>Polycop pipes:</u></b>					
Pipes shall be class 10.					
<b><u>Fixing of pipes</u></b>					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level					
<b><u>Polycop pipes chased in walls:</u></b>					
Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.					
<b><u>Reducing fittings:</u></b>					
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.					
<b><u>Class 10 Polycop pipes:</u></b>					
22	15mm Pipe chased into brick walls. A0 : 25      A1 : 35      A3 : 0	m	60		
23	22mm Pipe chased into brick walls. A0 : 14      A1 : 26      A3 : 0	m	40		
<b><u>Extra over polycop pipes for compression fittings:</u></b>					
24	15mm Fittings. A0 : 18      A1 : 22      A3 : 0	No	40		
25	22mm Fittings. A0 : 10      A1 : 15      A3 : 0	No	25		
<b>Carried to Collection</b>					
Section 3 Bill No. 7 Plumbing and Drainage (Provisional)				R	

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	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 12</u></b></p> <p><b><u>GLAZING</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 18 - Girls &amp; Boys Ablutions A1 - DWG 03 - Staff Ablutions A3 - Existing GR R Alterations</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p><b><u>Trade Preambles:</u></b></p> <p>For Trade Preambles refer to 'Specification of Materials and Methods' (PW371) for the full descriptions of material to be used and work to be done in this Bill</p> <p><b><u>GLAZING TO STEEL WITH PUTTY:</u></b></p> <p><b><u>4mm Clear float glass:</u></b></p>			
1	<p>Panes exceeding 0,1m2 and not exceeding 0,5m2. (Provisional). A0 : 0      A1 : 0      A3 : 2</p>	m2	2	
	<p align="right"><b>Carried Forward to Summary of Section No. 3</b></p> <p>Section 3 Bill No. 8 Glazing</p>			R

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Item No	Quantity	Rate	Amount
<p><b><u>SECTION 3</u></b></p>			
<p><b><u>BILL No. 13</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 18 - Girls &amp; Boys Ablutions</p>			
<p>A1 - DWG 03 - Staff Ablutions</p>			
<p>A3 - Existing GR R Alterations</p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" 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 align="center"><b>Carried to Collection</b></p>			
<p>Section 3 Bill No. 9 Paintwork</p>			
		R	

**PAINTWORK ETC TO NEW WORK**

**ON WOOD**

**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:**

1	On doors	m2	25	
	A0 : 13      A1 : 11      A3 : 0			

2	On door frames	m2	8	
	A0 : 4      A1 : 3      A3 : 0			

**Prepare and apply two coats carbolenium on:**

3	On exposed timbers.	m2	12	
	A0 : 7      A1 : 5      A3 : 0			

**ON FIBRE-CEMENT**

**Prepare and apply two coats pure acrylic roof paint on:**

4	On fascias and barge boards.	m2	16	
	A0 : 9      A1 : 7      A3 : 0			

**ON PVC VENT PIPE**

**Prepare and apply two coats black PVA paint:**

5	Vent Pipes.	m2	26	
	A0 : 15      A1 : 11      A3 : 0			

**PREPARATORY WORK TO PREVIOUSLY PAINTED SURFACES**

**Generally:**

All work are to be executed in strict accordance with the manufacturers paint specifications of Coating Systems for the preparation of previously painted surfaces.

All surfaces must be sound, clean and have a moisture content of less than 12%.

**Carried to Collection**

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**Previously painted plastered surfaces:**

Surfaces shall be thoroughly washed down to remove dirt and other contaminants and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler, and sanded smooth.

**Previously painted plastered surfaces:**

- |   |   |   |
|---|---|---|
| 6 | Surfaces shall be thoroughly washed down to remove dirt and other contaminants and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with 'Polycell Mendall 90' or Polycell Polyfilla Exterior' filler, and sanded smooth. In the case of previously limewashed surfaces, completely remove all limewash if possible or at least wire brush and scrape down to achieve a 'grey state' exposure of the substrate and apply filler as indicated above. | m |
|   | A0 : 0.0    A1 : 0.0    A3 : 0.0  |   |

**Previously painted wood surfaces:**

- |   |   |    |
|---|---|----|
| 7 | Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a filler as described and sanded smooth. | m2 |
|   | A0 : 0.0    A1 : 0.0    A3 : 0.0  |    |

**ON FLOATED PLASTER:**

**Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good with Polyfilla Exterior filler sanded smooth apply one coat Universal Undercoat' and two coats 'Low Sheen Non Drip Enamel' paint:' paint on existing enamel based paint surfaces:**

- |   |                                  |    |
|---|----------------------------------|----|
| 8 | On interior walls.               | m2 |
|   | A0 : 0.0    A1 : 0.0    A3 : 0.0 |    |

**ON PLASTER BOARD:**

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**Remove any loose and flaking residue by means of wire brushing, wash with 'Polycell Sugar Soap' or weak spirits of salts, open up cracks and make good with "polyfilla Exterior' filler sanded smooth, apply one coat 'Plaster Primer' and two coats 'Professional Copolymer Acrylic' paint on existing water based paint surfaces:**

9 On ceilings and cornices. m2 16  
A0 : 0 A1 : 0 A3 : 16

10 On fascias and barge boards. m2 12  
A0 : 0 A1 : 0 A3 : 12

**ON METAL:**

**Remove any loose and flaking residue by means of wire brushing, sand down, wash, rinse, apply 'Plascon Iron Cleaner' to bare metal areas, spot prime with 'Plascon Galvogrip Metal Primer' and apply two coats 'Plascon Nuroof Matt Acrylic' roof paint on existing galvanised steel:**

11 On corrugated iron roof sheeting (measured on flat). m2 75  
A0 : 0 A1 : 0 A3 : 75

**Remove all putty, remove all loose, defective paint and rust, sand down, clean with solvent wash, apply Rust Remover to rusted areas and scrub with hard bristle brush to remove, spot priming bare patches with Multisurface Primer, apply new putty and apply two coats 'Non Drip Enamel' paint on existing alkyd-based paint steel surfaces:**

12 On exterior windows (both sides measured). m2 4  
A0 : 0 A1 : 0 A3 : 4

**ON WOOD, WOOD BOARD:**

**Prepare and in the case of previously varnished surfaces, all existing varnish must be thoroughly sanded off before new coats are applied. Apply three coats 'Polyurethane' high gloss clear varnish:**

13 On interior doors. m2 29  
A0 : 0 A1 : 0 A3 : 29

14 On door frames. m 20  
A0 : 0 A1 : 0 A3 : 20

Carried to Collection

R

Section 3  
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

**Remove any loose and flaking residue by means of wire brushing, sand down, wash with 'Polycell Sugar Soap' or weak spirits of salts, rinse and apply one coat 'Oil Wood Primer', one coat 'Universal Undercoat' and two coats 'Non Drip Enamel' paint on existing enamel surfaces:**

15	On exterior roof timbers.	m2	32
	A0 : 0      A1 : 0      A3 : 32		

**Carried to Collection**

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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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Paintwork

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

**Amount**

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Paintwork



**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

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>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "General Preambles for Trades 2017" 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 WALKWAYS</u></b>			
	<u>Excavation not exceeding 2m deep</u>			
1	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	91	
	<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	91	
	<u>Filling supplied by the contractor under walkways</u>			
3	G7 Base course material compacted to 98% Mod AASHTO density	m3	31	
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	31	
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>			
5	Under floors,etc.	m2	209	
	<u>Prescribed density tests on filling:</u>			
6	In-situ dry density test.	No	25	
	<b>Carried to Collection</b>			R
	Section 4			
	Bill No. 1			
	External Works			

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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	<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	209		
	<b><u>Concrete Paving Blocks</u></b>				
	<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.	m2	116		
9	Extra over ordinary paving for 200mm wide block-on-flat header course edging on 100mm thick mortar bed including unreinforced concrete haunching along outside edge.	m	125		
10	Ditto but circular on plan.	m	6		
	<b><u>Kerbing</u></b>				
	<u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.</u>				
11	Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	125		
12	Ditto but circular on plan.	m	6		
13	Fig. 12 kerb size 75 x 150mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	19		
14	Ditto but circular on plan.	m	6		
	<b>Carried to Collection</b>				
	Section 4				
	Bill No. 1				
	External Works				
				R	

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

<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	9		
	<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	9		
	<u>Filling supplied by the contractor under channels</u>				
17	G7 Base course material compacted to 98% Mod AASHTO density	m3	3		
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	3		
	<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	30		
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>				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

	<u>Sundries:</u>				
22	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	15		
23	Construct shaped earth V-drain 2m wide with grass runners	m	15		
	<b><u>THE FOLLOWING IN DISABLED ACCESS</u></b>				
	<b><u>300MMM HIGH SCREEN WALL</u></b>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
24	Trenches.	m3	22		
	<u>Extra over all excavations for carting away:</u>				
25	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	15		
	<u>Risk of collapse of excavations:</u>				
26	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	86		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
27	Backfilling to trenches, holes, etc.	m3	8		
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
28	Under footings.	m3	5		
	<u>Compaction of surfaces</u>				
29	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	36		
	<b>Carried to Collection</b>				
	Section 4				
	Bill No. 1				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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	<u>25 Mpa/19mm Concrete</u>				
30	Strip footings.	m3	7		
	<u>Test blocks:</u>				
31	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	10		
	<u>Reinforcement (Provisional)</u>				
32	High tensile steel reinforcement bars to structural concrete work.	t	2.00		
	<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>				
33	One brick walls.	m2	22		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
34	One brick walls.	m2	25		
	<u>Brickwork reinforcement:</u>				
35	230mm Wide reinforcement built in horizontally.	m	254		
36	Ditto but in foundations.	m	254		
	<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>				
37	One brickwall faced on both sides.	m2	22		
	<b>Carried to Collection</b>				
	Section 4				
	Bill No. 1				
	External Works				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

	<u>Brick-on-edge header course copings, sills, etc. of "Rustgold FBS/Quinu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>				
38	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	72		
	<b><u>ACCESS RAMPS</u></b>				
	<u>Excavation not exceeding 2m deep</u>				
39	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	16		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
40	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>				
41	G7 Base course material compacted to 98% Mod AASHTO density	m3	8		
42	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>				
43	Under floors etc.	m3	3		
	<u>Compaction of surfaces:</u>				
44	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	54		
	<u>Prescribed density tests on filling:</u>				
45	In-situ dry density test.	No	15		
	<b>Carried to Collection</b>				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

	<u>Reinforced 25Mpa/19mm Concrete:</u>				
46	Ramps, Landings, etc.	m3	8		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
47	Surface beds, slabs, etc to falls and currents.	m2	54		
	<u>Test blocks:</u>				
48	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	8		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
49	12mm Joints not exceeding 300mm high.	m	72		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
50	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	72		
	<u>Fabric reinforcement:</u>				
51	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	54		
	<u>Waterproofing under Surface beds</u>				
52	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	54		
	<b>Carried to Collection</b>				
	Section 4				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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<b><u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u></b>					
	<u>Excavation not exceeding 2m deep</u>				
53	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	108		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
54	Off site to a dumping site to be found by the Contractor.	m3	108		
	<u>Filling supplied by the contractor under driveways</u>				
55	G7 Base course material compacted to 98% Mod AASHTO density	m3	36		
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	108		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
57	Under floors,etc.	m2	240		
	<u>Prescribed density tests on filling:</u>				
58	In-situ dry density test.	No	15		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
59	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	240		
	<u>150-175mm diameter bollards</u>				
60	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	12		
	<b>Carried to Collection</b>				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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**THE FOLLOWING IN RETAINING WALLS, ETC.**

<u>Excavation in earth not exceeding 2m deep</u>			
61	Trenches.	m3	11
<u>Risk of collapse of excavations:</u>			
62	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	37
<u>Keeping excavations free of water:</u>			
63	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>			
64	Off site to a dumping site to be found by the Contractor.	m3	5
<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>			
65	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	8
<u>Compaction of surfaces</u>			
66	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	20
<u>15Mpa/19mm Concrete</u>			
67	Surface blinding under footings and bases.	m3	1
<u>30Mpa/19mm Concrete</u>			
68	Strip footings.	m3	5
69	Cavity walls.	m3	1

**Carried to Collection**

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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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	<u>Test blocks:</u>				
70	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Fabric reinforcement:</u>				
71	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	18		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
72	One brickwalls in foundations	m2	45		
73	One brick walls	m2	10		
	<u>Brickwork reinforcement:</u>				
74	230mm Wide reinforcement built in horizontally.	m	316		
	<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>				
75	Extra over brickwork for face brickwork externally.	m2	17		
	<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>				
76	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	34		
	<u>Openings in Walls etc.</u>				
77	Leave or form 32mm weepole through one brick wall	No	10		
	<u>Membranes</u>				
78	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	10		
	<b>Carried to Collection</b>				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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	<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>			
79	19mm Stone.	m3	4	
	<b><u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u></b>			
	<b><u>STORMWATER APRONS</u></b>			
	<u>Excavation not exceeding 2m deep</u>			
80	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	12	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
81	Off site to a dumping site to be found by the Contractor.	m3	12	
	<u>Filling supplied by the contractor under floors, aprons, etc</u>			
82	G7 Base course material compacted to 98% Mod AASHTO density	m3	6	
83	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	6	
	<u>Coarse river sand filling supplied by the contractor:</u>			
84	Under floors etc.	m3	2	
	<u>Compaction of surfaces:</u>			
85	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	41	
	<u>Prescribed density tests on filling:</u>			
86	In-situ dry density test.	No	15	
	<b>Carried to Collection</b>			R
	Section 4			
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

	<u>Reinforced 25Mpa/19mm Concrete:</u>				
87	Surface beds cast in panels on waterproofing.	m3	6		
88	Edge thickening	m3	2		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
89	Surface beds, slabs, etc to falls and currents.	m2	41		
	<u>Test blocks:</u>				
90	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	10		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
91	12mm Joints not exceeding 300mm high.	m	27		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
92	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	27		
	<u>Fabric reinforcement:</u>				
93	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	41		
	<u>Waterproofing under Surface beds</u>				
94	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	41		
	<b>Carried to Collection</b>				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

**THE FOLLOWING IN RAINWATER TANKS AND STANDS**

Excavation in earth not exceeding 2m deep:

95	Trenches.	m3	6
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Extra over all excavations for carting away:

96	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	3
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Risk of collapse of excavations:

97	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	16
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Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:

98	Backfilling to trenches, holes, etc.	m3	3
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Filling supplied by the contractor under strip footing, floors etc.

99	G7 Base course material compacted to 98% Mod AASHTO density	m3	1
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100	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
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Compaction of surfaces

101	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	4
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25 Mpa/19mm Concrete

102	Strip footings.	m3	1
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**Carried to Collection**

R

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External Works

**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
THE MVULA TRUST SAFE PROGRAMME**

	<u>25 MPa/19mm Concrete:</u>				
103	Tank concrete slab.	m3	0.5		
	<u>Test blocks:</u>				
104	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>				
105	Surface beds, slabs, etc.	m2	4		
	<u>Rough Formwork to Sides:</u>				
106	Edges, risers, ends and reveals not exceeding 300mm high.	m	8		
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
107	Type 617 fabric reinforcement in concrete slabs.	m2	4		
	<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>				
108	One brick walls.	m2	6		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
109	One brick walls.	m2	6		
	<u>Brickwork reinforcement:</u>				
110	230mm Wide reinforcement built in horizontally.	m	64		
111	Ditto but in foundations.	m	56		
	<b>Carried to Collection</b>				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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<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>				
112	Extra over brickwork for face brickwork externally.	m2	5		
	<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>				
113	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	8		
	<u>Plastic water tanks etc:</u>				
114	5000 Litre roto molded or equal approved plastic tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	3		
115	Hole top of tank for 100mm pipe.	No	3		
	<b>Carried to Collection</b>				
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**COMPLETION OF KUBUSIE JUNIOR SECONDARY SCHOOL  
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**Carried to Final Summary**

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