

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

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

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

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SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

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

Clause 3.3 is deleted and substituted with:

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

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

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

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

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

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

26 F: V: T:

Item

Sectional completion (Clause 28).

27 F: V: T:

Item

Revision of date for practical completion (Clause 29).

28 F: V: T:

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:

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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 R2000.00 per calendar day with the total not exceeding 10% of the contract sum.

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum 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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<p>Clause 42.4.2</p>	<p>Number of construction document copies to be supplied to the Contractor free of charge :- 1</p>	<p>Item</p>	<p>R</p>
<p>Clause 42.4.3</p>	<p>Bills of Quantities drawn up in accordance with :-</p> <p>Standard System of Measuring Building Work - Seventh Edition including all amendments</p>		
<p>Clause 42.4.4</p>	<p>Number of days for submission of priced documents : 5 working days from the Letter of Appointment.</p>	<p>Item</p>	<p>R</p>
<p>Clause 42.4.5</p>	<p>JBCC Engineering General Conditions are to be included in the documents :- No</p>		
<p>Clause 42.4.6</p>	<p>The contract value is to be adjusted using CPAP:- NO</p>		
<p><u>SECTION B: PRELIMINARIES</u></p>			
<p><u>DEFINITIONS AND INTERPRETATION (B1)</u></p>			
<p>Definitions and Interpretation (B1)</p>	<p>F: V: T:</p>	<p>Item</p>	<p>R</p>
<p><u>DOCUMENTS (B2)</u></p>	<p>Checking of documents (B2.1)</p> <p>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.</p>		
<p>F: V: T:</p>	<p>Provisional Bills of Quantities (B2.2) YES</p>	<p>Item</p>	<p>R</p>
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	Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
43	F: V: T: Availability of construction documentation (B2.3)	Item		
44	F: V: T: Interests of Agents (B2.4)	Item		
45	F: V: T: Priced documents (B2.5)	Item		
46	F: V: T: Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.	Item		
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1) The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.	Item		
48	F: V: T:	Item		
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	Geotechnical investigation (B3.2)			
	A desktop geotechnical report is available upon request.			
49	F: V: T:	Item		
	Inspection of the Site (B3.3)			
50	F: V: T:	Item		
	Existing premises occupied (B3.4)			
51	F: V: T:	Item		
	Previous work - dimensional accuracy (B3.5)			
52	F: V: T:	Item		
	Previous work - defects (B3.6)			
53	F: V: T:	Item		
	Services - known (B3.7)			
54	F: V: T:	Item		
	Services - unknown (B3.8)			
55	F: V: T:	Item		
	Protection of trees (B3.9)			
56	F: V: T:	Item		
	Articles of value (B3.10)			
57	F: V: T:	Item		
	Inspection of adjoining properties (B3.11)			
58	F: V: T:	Item		
	<u>MANAGEMENT OF CONTRACT (B4)</u>			
	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		
	SAMPLES AND SHOP DRAWINGS (B5)			
	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		
	TEMPORARY WORKS AND PLANT (B6)			
	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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	Plant and equipment (B6.4)			
69	F: V: T:	Item		
	Main notice board (B6.5)			
	One notice board shall be provided by the Contractor			
70	F: V: T:	Item		
	Subcontractors notice board (B6.6) (N/A)			
71	F: V: T:	Item		
	<u>TEMPORARY SERVICES (B7)</u>			
	Location (B7.1)			
72	F: V: T:	Item		
	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).			
73	F: V: T:	Item		
	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).			
74	F: V: T:	Item		
	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).			
75	F: V: T:	Item		
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	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: V: T:	Item		
	<u>PRIME COST AMOUNTS (B8)</u>			
	Responsibility for prime cost amounts (B8.1)			
77	F: V: T:	Item		
	<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>			
	General Attendance (B9.1)			
78	F: V: T:	Item		
	Special Attendance (B9.2)			
79	F: V: T:	Item		
	Commissioning - fuel, water and power (B9.3)			
80	F: V: T:	Item		
	<u>FINANCIAL ASPECTS (B10)</u>			
	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).			
81	F: V: T:	Item		
	Payment of Preliminaries (B10.2)			
82	F: V: T:	Item		
	Adjustment of Preliminaries (B10.3)			
83	F: V: T:	Item		
	Payment certificate cash flow (B10.4)			
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84	F: V: T: Contractor information supply (B10.5)	Item		
85	F: V: T: <u>GENERAL (B11)</u> Protection of the Works (B11.1)	Item		
86	F: V: T: Protection/isolation of existing/sectionally occupied works (B11.2)	Item		
87	F: V: T: Site security (B11.3)	Item		
88	F: V: T: Notice before covering work (B11.4)	Item		
89	F: V: T: Disturbance (B11.5)	Item		
90	F: V: T: Works cleaning and clearing (B11.6)	Item		
91	F: V: T: Vermin (B11.7)	Item		
92	F: V: T: Overhand work (B11.8)	Item		
93	F: V: T:	Item		
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SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

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

94 F: V: T:

Item

C2. Trade Names, etc.

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

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

95 F: V: T:

Item

C3. Contractors responsibility

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

96 F: V: T:

Item

C4. Overtime

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Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

97 F: V: T:

Item

C5. As built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

98 F: V: T:

Item

C6. Construction Instructions

Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:

a) Construction Instruction Book:

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.

Only instructions issued in such book shall be recognised.

b) Daily Record Book:

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

Section 1

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**TOM'S PLACE PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME**

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<u>HEALTH AND SAFETY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>SUPPLEMENTARY PREAMBLES</u>			
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.			
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.			
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 & Safety specifications.			
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 & Safety Specifications.			
The costs included herein must incorporate Community Liaison Officer (CLO).			
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Section 1			
Bill No. 2			
Health and Safety			

<u>OCCUPATIONAL HEALTH AND SAFETY</u>			
<u>General:</u>			
1	Preparation of Contractor's site specific Health and Safety Plan.	Item	
2	Submission of the Health and Safety File.	Item	
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item	
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item	
5	Provision of full time Health and Safety Officer for the entire construction period.	Item	
6	Induction training of personnel.	No	20
7	Provision of first aid boxes.	No	1
8	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	110
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>			
10	Reflective vests.	No	20
11	Hard hats.	No	20
12	Protective foot wear.	No	20
13	Ear Plugs.	No	20
14	Dust Masks.	No	20
<u>Costs of Medical Certificates and Medical Surveillance:</u>			
15	Initial (baseline) medical examinations.	No	20
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Section 1 Bill No. 2 Health and Safety			

**TOM'S PLACE PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME**

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**TOM'S PLACE PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME**

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Health and Safety

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SECTION SUMMARY - PRELIMINARIES

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<u>BILL No. 1</u>			
<u>DECANTING PROVISION</u>			
<u>MODEL PREAMBLES</u>			
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.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View site</u>			
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. 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			
<u>TEMPORARY ABLUTIONS</u>			
1	Rental of temporary plastic ablutions approximate size 1,2 x 1,2 x 2,3m high for the sole use by the school, for 6 months inclusive of servicing on a regular basis and maintaining clean for the duration on site.	No	10
2	Transportation of temporary ablutions approximate size 1,2 x 1,2 x 2,3m high to site including establishment on site, transportation back to supplier and de-establishment on completion.	No	10
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Decanting			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL No. 2</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>Quantity Split:</u></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>A5 - DWG 18 - Male & Female Ablutions A6 - DWG 08 - Grade R Ablutions A7 - DWG 04 - Staff Ablutions</p> <p><u>MODEL PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></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><u>Nature of material to be excavated:</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".</p> <p><u>Carting away of excavated material:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p>			
	Carried to Collection		R	
	<p>Section 3</p> <p>Bill No. 1</p> <p>Earthworks (Provisional)</p>			

Dewatering of excavations:

The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Imported fill:

"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"

Classification of excavated material

"Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.

"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness.

"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0,03m³ in volume.

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Earthworks (Provisional)

EXCAVATION OTHER THAN BULK

Excavation in earth not exceeding 2m deep:

1	Trenches.	m3	19
	2B : 0 A5 : 6 A6 : 6 A7 : 6		
2	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	36
	2B : 0 A5 : 11 A6 : 13 A7 : 12		

Extra over trench and hole excavations in earth for excavation in:

3	Soft rock.	m3	15
	2B : 15 A5 : 0 A6 : 0 A7 : 0		
4	Hard rock.	m3	5
	2B : 5 A5 : 0 A6 : 0 A7 : 0		

Extra over all excavations for carting away:

5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	55
	2B : 0 A5 : 17 A6 : 19 A7 : 19		

Risk of collapse of excavations:

6	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	88
	2B : 0 A5 : 28 A6 : 30 A7 : 30		

Keeping excavations free of water:

7	Keeping excavations free from mud and all water including subterranean sources.	Item	
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EARTH FILLING, ETC.

Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:

8	Under floors, etc.	m3	14	
	2B : 0 A5 : 4 A6 : 5 A7 : 5			

Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to trenches, holes, etc.

9	Under floors, etc.	m3	14	
	2B : 0 A5 : 4 A6 : 5 A7 : 5			

Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to holes, trenches etc.

10	Under floors, etc.	m3	41	
	2B : 0 A5 : 13 A6 : 14 A7 : 14			

Coarse river sand filling supplied by the contractor:

11	Under floors etc.	m3	5	
	2B : 0 A5 : 1 A6 : 2 A7 : 2			

Compaction of surfaces:

12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	91	
	2B : 0 A5 : 29 A6 : 31 A7 : 31			

Prescribed density tests on filling:

13	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	24	
	2B : 0 A5 : 8 A6 : 8 A7 : 8			

SOIL POISONING

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14	<p><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u></p> <p>Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.</p> <p>2B : 0 A5 : 29 A6 : 31 A7 : 31</p>	m2	91		
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Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL No. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>Quantity Split:</u></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>A5 - DWG 18 - Male & Female Ablutions A6 - DWG 08 - Grade R Ablutions A7 - DWG 04 - Staff Ablutions</p> <p><u>MODEL PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></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><u>Cost of tests:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p>			
	Carried to Collection		R	
	<p>Section 3</p> <p>Bill No. 2</p> <p>Concrete, Formwork and Reinforcement</p>			

Formwork:

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

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

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

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

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Bill No. 2
Concrete, Formwork and Reinforcement

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**UNREINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

15Mpa/19mm Concrete

- | | | | | |
|---|--|----|---|--|
| 1 | Surface blinding under footings and bases. | m3 | 5 | |
| | 2B : 0 A5 : 1 A6 : 2 A7 : 2 | | | |

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/20mm concrete:

- | | | | | |
|---|--|----|----|--|
| 2 | Concrete raft slab on waterproofing. | m3 | 25 | |
| | 2B : 0 A5 : 8 A6 : 8 A7 : 8 | | | |

TEST BLOCKS

Test blocks:

- | | | | | |
|---|---|----|----|--|
| 3 | Making and testing of 150x150x150mm concrete strength test cubes (Provisional). | No | 18 | |
| | 2B : 0 A5 : 6 A6 : 6 A7 : 6 | | | |

FINISHING TOP SURFACE OF CONCRETE

Finishing top surfaces of concrete smooth with a wood float:

- | | | | | |
|---|---|----|----|--|
| 4 | Surface beds, suspended slabs, ground slabs, etc. | m2 | 91 | |
| | 2B : 0 A5 : 29 A6 : 31 A7 : 31 | | | |

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough Formwork to Sides:

- | | | | | |
|---|---|---|----|--|
| 5 | Edges, risers, ends and reveals not exceeding 300mm high or wide. | m | 73 | |
| | 2B : 0 A5 : 23 A6 : 25 A7 : 25 | | | |

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Concrete, Formwork and Reinforcement

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SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth Formwork to Sides:

6	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m2	37			
	2B : 0 A5 : 12 A6 : 13 A7 : 12					

MOVEMENT JOINTS ETC

Two layers of 375 micron damp proof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed (Provisional)

7	Not exceeding 300mm wide.	m	115			
	2B : 0 A5 : 36 A6 : 39 A7 : 40					

Saw cut joints:

8	6 x 40mm Saw cut joints in top of concrete (Provisional).	m	61			
	2B : 0 A5 : 20 A6 : 20 A7 : 20					

REINFORCEMENT (PROVISIONAL)

9	High tensile steel reinforcement bars to structural concrete work.	t	2.40			
	2B : 0.00 A5 : 0.77 A6 : 0.82 A7 : 0.81					

Fabric reinforcement:

10	REF. 617 fabric reinforcement in concrete surface beds, raft slabs etc.	m2	91			
	2B : 0 A5 : 29 A6 : 31 A7 : 31					

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Masonry

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Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

Samples

Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site

Trade names

Where trade names are specified it will read "or equal approved"

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Section 3
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Masonry

BRICKWORK AND BLOCKWORK SUNDRIES

Galvanized brickwork reinforcement

1	115mm Wide reinforcement built in horizontally 2B : 0 A5 : 53 A6 : 88 A7 : 35	m	177
2	230mm Wide reinforcement built in horizontally. 2B : 0 A5 : 318 A6 : 305 A7 : 368	m	991

Cramps, ties, etc:

3	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. 2B : 0 A5 : 26 A6 : 26 A7 : 26	No	78
---	--	----	----

Air bricks etc:

4	229 x 152mm terracotta clay vermin proof air brick 2B : 0 A5 : 12 A6 : 12 A7 : 12	No	36
---	---	----	----

Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixeal" bitumen emulsion waterproofing coating:

5	To walls (Provisional). 2B : 0 A5 : 75 A6 : 80 A7 : 77	m2	233
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Samples

6	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same area (1000x1000mm) to be paved as per given specifications.	Item	
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Turning pieces to lintels etc

7	230mm Wide turning pieces 2B : 0 A5 : 13 A6 : 13 A7 : 13	m	40
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FACE BRICK

"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):

8	Half brick wall in beam filling pointed one side including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar.	m2	19
	2B : 0 A5 : 6 A6 : 7 A7 : 6		
9	One brickwall pointed on both sides.	m2	304
	2B : 0 A5 : 97 A6 : 94 A7 : 113		
10	Half brickwall pointed on both sides.	m2	54
	2B : 0 A5 : 16 A6 : 27 A7 : 11		
11	Fair raking cutting.	m	27
	2B : 0 A5 : 9 A6 : 9 A7 : 9		
	<u>Face brick copings, lintels, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces:</u>		
12	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.	m	20
	2B : 0 A5 : 7 A6 : 7 A7 : 7		
13	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	24
	2B : 0 A5 : 8 A6 : 7 A7 : 8		

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**TOM'S PLACE PRIMARY SCHOOL
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	<p><u>SECTION 3</u></p> <p><u>BILL No. 5</u></p> <p><u>WATERPROOFING</u></p> <p><u>Quantity Split:</u></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>A5 - DWG 18 - Male & Female Ablutions A6 - DWG 08 - Grade R Ablutions A7 - DWG 04 - Staff Ablutions</p> <p><u>MODEL PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></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><u>Waterproofing</u></p> <p>The product and its methodology for application must be approved by Principal Agent before it is used.</p> <p>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.</p> <p>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.</p> <p>Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.</p>			
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	<p>Section 3</p> <p>Bill No. 4</p> <p>Waterproofing</p>			

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Bill No. 4
Waterproofing

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DAMPPROOFING OF WALLS AND FLOORS

One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':

1	Under surface beds, bases, etc.	m2	91	
	2B : 0 A5 : 29 A6 : 31 A7 : 31			

One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:

2	Below walls, sills, etc.	m2	10	
	2B : 0 A5 : 3 A6 : 3 A7 : 3			

JOINT SEALANTS ETC

Clear Neutral silicone sealant:

3	In joint sealing and pointing all round external window and door frames.	m	159	
	2B : 0 A5 : 54 A6 : 51 A7 : 55			

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

4	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	61	
	2B : 0 A5 : 20 A6 : 20 A7 : 20			

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Waterproofing

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Bill No. 4

Waterproofing

Guarantee

Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.

Safety

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity

Handling and Storage

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction

Inspection Prior to Installation or Erection

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding

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Roof Coverings Etc.

R

Protrusion through Sheeted Surfaces

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation

Cleaning of Roofs, etc

All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc

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Section 3
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Roof Coverings Etc.

ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

0.58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :

1	Roof sheeting laid to a mono-pitch.	m2	125	
	2B : 0 A5 : 39 A6 : 43 A7 : 42			

0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:

2	Mono pitched ridge capping with 225mm lapping secured onto the roof.	m	28	
	2B : 0 A5 : 9 A6 : 10 A7 : 10			

ROOF AND WALL INSULATION

"Sisalation Grade FR430" or equal approved heavy industrial insulation

3	Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires	m2	125	
	2B : 0 A5 : 39 A6 : 43 A7 : 42			

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Roof Coverings Etc.

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<u>BILL No. 7</u>			
<u>CARPENTRY & JOINERY</u>			
<u>Quantity Split:</u>			
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
A5 - DWG 18 - Male & Female Ablutions			
A6 - DWG 08 - Grade R Ablutions			
A7 - DWG 04 - Staff Ablutions			
<u>MODEL PREAMBLES</u>			
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.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>FIXING</u>			
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.			
Carried to Collection			R
Section 3			
Bill No. 6			
Carpentry and Joinery			

CARPENTRY

Sawn softwood:

1	38 x 114mm Wall plate.	m	56				
	2B : 0 A5 : 18 A6 : 19 A7 : 19						
2	50 x 76mm Purlins.	m	225				
	2B : 0 A5 : 71 A6 : 78 A7 : 76						
3	50 x 76mm Bracing.	m	36				
	2B : 0 A5 : 12 A6 : 12 A7 : 12						
4	38 x 152mm Rafters.	m	133				
	2B : 0 A5 : 44 A6 : 44 A7 : 44						

Sundries:

5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	40				
	2B : 0 A5 : 0 A6 : 40 A7 : 0						

EAVES, VERGES, ETC

"Everite Nutec" or equal approved fibre cement

6	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	56				
	2B : 0 A5 : 18 A6 : 19 A7 : 19						
7	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	27				
	2B : 0 A5 : 9 A6 : 9 A7 : 9						

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Carpentry and Joinery

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DOORS ETC

SANS Approved meranti:

8	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	5
	2B : 0 A5 : 2 A6 : 1 A7 : 2		
9	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	2
	2B : 0 A5 : 0 A6 : 1 A7 : 1		
10	44mm Braced and ledged door size 862 x 1000mm Type (D3).	No	5
	2B : 0 A5 : 0 A6 : 5 A7 : 0		

FRAMED FRAMES, ETC

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

11	70 x 108mm rebated meranti frame .	m	70
	2B : 0 A5 : 28 A6 : 19 A7 : 23		
	<u>Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:</u>		
12	70 x 108mm rebated meranti frame .	m	10
	2B : 0 A5 : 0 A6 : 5 A7 : 5		

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Carpentry and Joinery

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Bill No. 6

Carpentry and Joinery

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Section 3

Bill No. 6

Carpentry and Joinery

HINGES:

1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	19.0		
	2B : 0.0 A5 : 6.0 A6 : 7.0 A7 : 6.0				

LOCKS

2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	7		
	2B : 0 A5 : 2 A6 : 2 A7 : 3				

3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	12		
	2B : 0 A5 : 4 A6 : 5 A7 : 3				

HANDLES

4	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	19		
	2B : 0 A5 : 6 A6 : 7 A7 : 6				

Sundries:

5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	12		
	2B : 0 A5 : 4 A6 : 5 A7 : 3				

6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	19		
	2B : 0 A5 : 6 A6 : 7 A7 : 6				

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		
	2B : 0 A5 : 2 A6 : 2 A7 : 3				

Carried to Collection

Section 3
Bill No. 7
Ironmongery

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SUNDRIES

Halcast or equal approved"

8	Thiefproof toilet roll holder plugged.	No	14	
	2B : 0 A5 : 4 A6 : 6 A7 : 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	
	2B : 0 A5 : 0 A6 : 1 A7 : 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	
	2B : 0 A5 : 0 A6 : 1 A7 : 1			

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Section 3
Bill No. 7
Ironmongery

Section 3

Bill No. 7

Ironmongery

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Section 3

Bill No. 7

Ironmongery

Item No	Quantity	Rate	Amount
<p><u>SECTION 3</u></p> <p><u>BILL No. 9</u></p> <p><u>METALWORK</u></p> <p><u>Quantity Split:</u></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>A5 - DWG 18 - Male & Female Ablutions A6 - DWG 08 - Grade R Ablutions A7 - DWG 04 - Staff Ablutions</p> <p><u>MODEL PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></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><u>ALUMINIUM WINDOWS</u></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>			
<p>Carried to Collection</p>			
<p>Section 3 Bill No. 8 Metalwork</p>			

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	33
	2B : 0 A5 : 11 A6 : 11 A7 : 11		

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	4
	2B : 0 A5 : 2 A6 : 1 A7 : 1		
3	Security double gate size 1800 x 2050mm high.	No	1
	2B : 0 A5 : 0 A6 : 0 A7 : 1		

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Section 3
Bill No. 8
Metalwork

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Bill No. 8

Metalwork

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Section 3

Bill No. 8

Metalwork

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	11		
	2B : 0 A5 : 3 A6 : 4 A7 : 4				
7	15mm Ball-o-stop valve.	No	12		
	2B : 0 A5 : 3 A6 : 4 A7 : 5				
8	22mm Non Return valve.	No	5		
	2B : 0 A5 : 0 A6 : 5 A7 : 0				

WASTE UNIONS ETC

Outlets, traps, etc:

9	40mm Code 316 chrome plated unslotted waste outlet.	No	11		
	2B : 0 A5 : 3 A6 : 4 A7 : 4				
10	40mm Rubber "P" or "S" trap	No	11		
	2B : 0 A5 : 3 A6 : 4 A7 : 4				

Carried to Collection

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Section 3
Bill No. 10
Plumbing and Drainage (Provisional)

SANITARY FITTINGS

Vaal or equal approved:

- | | | | |
|----|--|----|----|
| 11 | 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 | 11 |
|----|--|----|----|

2B : 0 A5 : 3 A6 : 4 A7 : 4

- | | | | |
|----|--|----|---|
| 12 | Orchid back inlet white vitreous china wall hung pan [code 439016] with floor bracket [code 8082Z0] fitted as per manufacturer's specifications and combined with: GEBERIT Kombifix UP172 for wall hung WC, [G110.150.00.1], front actuated with Delta21 dual flush actuator [G115.125.46.1] in matt finish, including flushpipe and Pan connector, water supply connection with angle stop valve, Netting for direct plastering, protection cover for service opening and protection cover for flushpipe, fixed with included fastening materials inside a single solid wall [80mm] | No | 9 |
|----|--|----|---|

2B : 0 A5 : 4 A6 : 1 A7 : 4

- | | | | |
|----|--|----|---|
| 13 | Junior vitreous china low level suite colour White (Code: 751358), comprising 104° outlet washdown pan (Code: 751301) with matching 6 litre front single flush cistern (Code: 712034) including lid, fitments and flushpipe and Junior double flap wooden seat (Code: 8518Z0). | No | 5 |
|----|--|----|---|

2B : 0 A5 : 0 A6 : 5 A7 : 0

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

2B : 0 A5 : 0 A6 : 0 A7 : 1

SANITARY PLUMBING

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Section 3
Bill No. 10
Plumbing and Drainage (Provisional)

R

PVC waste or vent pipes and fittings:

15	50mm Waste pipe. 2B : 0 A5 : 35 A6 : 35 A7 : 35	m	105		
16	110mm Pipe. 2B : 0 A5 : 4 A6 : 6 A7 : 4	m	14		
17	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. 2B : 0 A5 : 25 A6 : 25 A7 : 25	m	75		

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. 2B : 0 A5 : 1 A6 : 1 A7 : 1	No	3		
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Extra for:

19	50mm Bend. 2B : 0 A5 : 0 A6 : 10 A7 : 0	No	10		
20	50mm Access bend. 2B : 0 A5 : 0 A6 : 3 A7 : 0	No	3		
21	100mm Access bend. 2B : 0 A5 : 4 A6 : 6 A7 : 4	No	14		

WATER SUPPLIES

Polycop pipes:

Pipes shall be class 10.

Fixing of pipes

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

Carried to Collection

Section 3
Bill No. 10
Plumbing and Drainage (Provisional)

R

Polycop pipes chased in walls:

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.

Reducing fittings:

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.

Class 10 Polycop pipes:

22	15mm Pipe chased into brick walls. 2B : 0 A5 : 38 A6 : 41 A7 : 33	m	112
23	22mm Pipe chased into brick walls. 2B : 0 A5 : 26 A6 : 25 A7 : 31	m	82

Extra over polycop pipes for compression fittings:

24	15mm Fittings. 2B : 0 A5 : 0 A6 : 35 A7 : 0	No	35
25	22mm Fittings. 2B : 0 A5 : 0 A6 : 32 A7 : 0	No	32

Connection to existing water supply

26	Allow for connection to existing water supply.	Item	
----	--	------	--

Testing

27	Testing water pipe system	Item	
----	---------------------------	------	--

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Bill No. 10
Plumbing and Drainage (Provisional)

Section 3

Bill No. 10

Plumbing and Drainage (Provisional)

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Bill No. 10

Plumbing and Drainage (Provisional)

Item No	Quantity	Rate	Amount
<p><u>SECTION 3</u></p> <p><u>BILL No. 12</u></p> <p><u>PAINTWORK</u></p> <p><u>Quantity Split:</u></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>A5 - DWG 18 - Male & Female Ablutions A6 - DWG 08 - Grade R Ablutions A7 - DWG 04 - Staff Ablutions</p> <p><u>MODEL PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Trade Names</u></p> <p>Where trade names are specified it will read "or equal approved"</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section 3 Bill No. 11 Paintwork</p>			

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	57	
	2B : 0 A5 : 20 A6 : 17 A7 : 21			

2	On door frames	m2	18	
	2B : 0 A5 : 6 A6 : 6 A7 : 6			

Prepare and apply two coats carbolenium on:

3	On exposed timbers.	m2	41	
	2B : 0 A5 : 13 A6 : 14 A7 : 14			

ON FIBRE-CEMENT

Prepare and apply two coats pure acrylic roof paint on:

4	On fascias and barge boards.	m2	29	
	2B : 0 A5 : 9 A6 : 10 A7 : 10			

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Section 3
Bill No. 11
Paintwork

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Section 3

Bill No. 11

Paintwork

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SECTION SUMMARY - BUILDING WORKS

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Masonry

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Waterproofing

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Section 3

Item No		Quantity	Rate	Amount
	<u>SECTION No. 4</u>			
	<u>BILL No. 1</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>MODEL PREAMBLES</u>			
	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.			
	<u>THE FOLLOWING IN PLATFORMS, ETC.</u>			
	<u>Site Clearance, ETC</u>			
1	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	304	
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	304	
	<u>Open face excavation not exceeding 2m deep:</u>			
3	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m3	215	
	<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	215	
	<u>Earth filling from excavated material</u>			
5	Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.	m3	22	
	Carried to Collection		R	
	Section 4 Bill No. 1 External Works			

	<u>Filling supplied by the contractor to form platforms</u>			
6	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	91	
	<u>Surface Preparation:</u>			
7	Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.	m2	304	
	<u>Prescribed density tests on filling:</u>			
8	Modified AASHTO Density test.	No	3	
	<u>WATER RETICULATION</u>			
	<u>WATER SUPPLY IN GROUND</u>			
	<u>HDPE 100PN 12.5 pressure pipes:</u>			
9	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	100	
10	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	50	
	<u>Extra over (PN12.5) HDPE piping for fittings:</u>			
11	32mm Bend.	No	10	
12	32mm Adaptor.	No	10	
13	40mm Bend.	No	8	
14	32mm Tee.	No	10	
15	40mm Tee.	No	5	
	Carried to Collection			
	Section 4			
	Bill No. 1			
	External Works			

<u>TAPS, VALVES, ETC</u>				
16	32mm "Cobra" Ball Valve complete with adaptors for HDPE pipe.	No	4	
17	32mm Non-return valve.	No	4	
<u>Municipal connection</u>				
<u>Sundries:</u>				
18	Allow for amount of R20 000.00 (Twenty Thousand Rand) for municipal water connection to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.		Item	20 000.00
19	Allow for profit if required.		%	
<u>Testing:</u>				
20	Testing water pipe system.		Item	
<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
<u>STORMWATER APRONS</u>				
<u>Excavation not exceeding 2m deep</u>				
21	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	25	
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
22	Off site to a dumping site to be found by the Contractor.	m3	25	
<u>Filling supplied by the contractor under floors, aprons, etc</u>				
23	G7 Base course material compacted to 98% Mod AASHTO density	m3	12	
24	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	12	
Carried to Collection				R
Section 4				
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External Works				

	<u>Coarse river sand filling supplied by the contractor:</u>				
25	Under floors etc.	m3	4		
	<u>Compaction of surfaces:</u>				
26	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	82		
	<u>Prescribed density tests on filling:</u>				
27	In-situ dry density test.	No	3		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
28	Surface beds cast in panels on waterproofing.	m3	8		
29	Edge thickening	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
30	Surface beds, slabs, etc to falls and currents.	m2	82		
	<u>Test blocks:</u>				
31	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
32	12mm Joints not exceeding 300mm high.	m	30		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
33	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	30		
	<u>Fabric reinforcement:</u>				
34	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	82		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

<div> <div>35</div> <div> <div>Waterproofing under Surface beds</div> <div>350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).</div> <div>m2</div> </div> </div>	<div>82</div>		
<div> <div>Section 4</div> <div>Bill No. 1</div> <div>External Works</div> </div>	<div>Carried to Collection</div>	<div>R</div>	

<u>STORMWATER CHANNELS</u>					
<u>Excavation not exceeding 2m deep</u>					
36	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	20		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
37	Off site to a dumping site to be found by the Contractor.	m3	20		
<u>Filling supplied by the contractor under channels</u>					
38	G7 Base course material compacted to 98% Mod AASHTO density	m3	10		
39	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	10		
<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>					
40	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	97		
41	Extra for 700mm angle	No	12		
42	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	3		
Carried to Collection				R	
Section 4					
Bill No. 1					
External Works					

	<u>Sundries:</u>			
43	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	20	
	Section 4 Bill No. 1 External Works		Carried to Collection	R

THE FOLLOWING IN CULVERTS

Class 50D concrete pipes:

- | | | | | |
|----|--|---|---|--|
| 44 | 450mm Diameter Concrete pipe laid in trenches not exceeding 1m deep including excavation, backfill, bedding, cart away and compaction. | m | 5 | |
|----|--|---|---|--|

Manholes:

- | | | | | |
|----|--|----|---|--|
| 45 | Manhole size 600 x 600mm not exceeding 1m deep internally to invert level formed of hard burnt half brick sides in 1:3 cement mortar on and including 100mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom reinforced with Y10 bars at 200c/c both directions and projecting 150mm beyond sides, cast on 50mm thick concrete Blinding (15Mpa) and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with with C.I step irons staggered at 300c/c with 150mm thick grade 25 reinforced precast concrete manhole cover rebated for and fitted with and including cast iron double seal cover and frame type 14B in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in to allow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc | No | 2 | |
| 46 | Manhole size 600 x 600mm exceeding 1m not exceeding 2m deep internally to invert level formed of hard burnt half brick sides in 1:3 cement mortar on and including 100mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom reinforced with Y10 bars at 200c/c both directions and projecting 150mm beyond sides, cast on 50mm thick concrete Blinding (15Mpa) and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with with C.I step irons staggered at 300c/c with 150mm thick grade 25 reinforced precast concrete manhole cover rebated for and fitted with and including cast iron double seal cover and frame type 14B in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in to allow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc | No | 2 | |

SEWER RETICULATION

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MODEL PREAMBLES

The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates

SUPPLEMENTARY PREAMBLES

uPVC pipes and fittings

Soil, waste and vent pipes and fittings shall be solvent weld jointed.

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.

Excavations:

No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.

Soft rock and hard rock shall be as defined in Earthworks.

Laying, backfilling, bedding, etc of pipes:

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SABS 1200

- L :** Medium pressure pipelines
- LD :** Sewers
- LE :** Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200
- DB:** Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.

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<u>Descriptions of pipes laid in trenches:</u>		
Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site		
<u>Descriptions of catchpits, junction boxes, manholes, etc:</u>		
Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.		
<u>Density testing on filling:</u>		
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.		
<u>BULK SEWER RETICULATION</u>		
<u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u>		
110mm Pipes laid in and including trenches not exceeding 1m deep	m	30
110mm Pipes laid in and including trenches exceeding 1m but not exceeding 2m deep	m	35
<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>		
110mm Bend	No	5
110mm Junction	No	8
110mm Rodding eye	No	3
<u>PRE-CAST CONCRETE MANHOLES</u>		
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**Pre-cast concrete circular inspection chambers
including pre-cast concrete cover slabs, covers and
channels in benching**

52	Manhole 1000mm diameter not exceeding 1m deep.	No	2		
53	Manhole 1000mm diameter exceeding 1m and not exceeding 2m deep.	No	2		

SUNDRIES

Earthworks

54	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m3	2		
55	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m3	3		
56	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	No	3		

Manhole covers

57	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	4		
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Connection

58	Allow for connecting to sewer drainage system		Item		
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Testing:

59	Testing drainage system.		Item		
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THE FOLLOWING IN WALKWAYS

Excavation not exceeding 2m deep

60	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	25		
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**Extra over all excavations for loading, carting and
dumping surplus excavated material (no allowance
made for increase in bulk):**

61	Off site to a dumping site to be found by the Contractor.	m3	25		
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	<u>Filling supplied by the contractor under walkways</u>				
62	G7 Base course material compacted to 98% Mod AASHTO density	m3	12		
63	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	12		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
64	Under floors,etc.	m2	83		
	<u>Prescribed density tests on filling:</u>				
65	In-situ dry density test.	No	2		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
66	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	83		
	<u>Concrete Paving Blocks</u>				
	<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>				
67	Paving to walkway areas, etc laid to falls.	m2	83		
	<u>Kerbing</u>				
	<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>				
68	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	79		
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<u>THE FOLLOWING IN DISABLED ACCESS</u>					
<u>SCREEN WALL</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
69	Trenches.	m3	12		
<u>Extra over all excavations for carting away:</u>					
70	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	12		
<u>Risk of collapse of excavations:</u>					
71	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	48		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>					
72	Backfilling to trenches, holes, etc.	m3	4		
<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>					
73	Under footings.	m3	14		
<u>Compaction of surfaces</u>					
74	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		
<u>25 Mpa/19mm Concrete</u>					
75	Strip footings.	m3	5		
<u>Test blocks:</u>					
76	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
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	<u>Reinforcement (Provisional)</u>				
77	High tensile steel reinforcement bars to structural concrete work.	t	0.75		
	<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>				
78	One brick walls.	m2	48		
	<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>				
79	One brick walls.	m2	19		
	<u>Brickwork reinforcement:</u>				
80	230mm Wide reinforcement built in horizontally.	m	70		
81	Ditto but in foundations.	m	360		
	<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>				
82	One brickwall faced on both sides.	m2	19		
	<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>				
83	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	48		
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<u>ACCESS RAMPS</u>			
<u>Excavation not exceeding 2m deep</u>			
84	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	5
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
85	Off site to a dumping site to be found by the Contractor.	m3	5
<u>Filling supplied by the contractor under floors, aprons, etc</u>			
86	G7 Base course material compacted to 98% Mod AASHTO density	m3	5
87	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	5
<u>Coarse river sand filling supplied by the contractor:</u>			
88	Under floors etc.	m3	5
<u>Compaction of surfaces:</u>			
89	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
<u>Prescribed density tests on filling:</u>			
90	In-situ dry density test.	No	4
<u>Reinforced 25Mpa/19mm Concrete:</u>			
91	Ramps, Landings, etc.	m3	6
<u>Finishing top surfaces of concrete smooth with a wood float:</u>			
92	Surface beds, slabs, etc to falls and currents.	m2	45
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	<u>Test blocks:</u>			
93	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4	
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>			
94	12mm Joints not exceeding 300mm high.	m	6	
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
95	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	6	
	<u>Fabric reinforcement:</u>			
96	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	45	
	<u>Waterproofing under Surface beds</u>			
97	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	45	
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<u>THE FOLLOWING IN RETAINING WALLS, ETC.</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
98	Trenches.	m3	15
<u>Risk of collapse of excavations:</u>			
99	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	60
<u>Keeping excavations free of water:</u>			
100	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>			
101	Off site to a dumping site to be found by the Contractor.	m3	15
<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>			
102	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	15
<u>Compaction of surfaces</u>			
103	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	45
<u>15Mpa/19mm unreinforced concrete</u>			
104	Surface blinding under footings and bases.	m3	3
<u>30Mpa/19mm reinforced concrete</u>			
105	Strip footings.	m3	8
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**TOM'S PLACE PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME**

	<u>Test blocks:</u>				
106	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<u>Fabric reinforcement:</u>				
107	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	30		
	<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 brickwalls in foundations	m2	13		
109	One brick walls	m2	30		
	<u>Brickwork reinforcement:</u>				
110	230mm Wide reinforcement built in horizontally.	m	400		
	<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>				
111	Extra over brickwork for face brickwork externally.	m2	30		
	<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>				
112	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	50		
	<u>Openings in Walls etc.</u>				
113	Leave or form 32mm weephole through one brick wall	No	33		
	<u>Membranes</u>				
114	"Geofabric filter blanket wrapped around stone with 300mm side and 300mm end laps, including stitching.	m2	75		
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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>			
115	19mm Stone.	m3	5	
	<u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
116	Trenches.	m3	14	
	<u>Extra over all excavations for carting away:</u>			
117	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	14	
	<u>Risk of collapse of excavations:</u>			
118	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	40	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
119	Backfilling to trenches, holes, etc.	m3	5	
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>			
120	Under floors.	m3	14	
	<u>Compaction of surfaces</u>			
121	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>25 Mpa/19mm Concrete</u>			
122	Strip footings.	m3	7	
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	<u>25 MPa/19mm Concrete:</u>				
123	Tank concrete slab.	m3	2		
	<u>Test blocks:</u>				
124	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	<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>				
125	Surface beds, slabs, etc.	m2	20		
	<u>Rough Formwork to Sides:</u>				
126	Edges, risers, ends and reveals not exceeding 300mm high.	m	40		
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
127	Type 617 fabric reinforcement in concrete slabs.	m2	20		
	<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>				
128	One brick walls.	m2	16		
	<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>				
129	One brick walls.	m2	24		
	<u>Brickwork reinforcement:</u>				
130	230mm Wide reinforcement built in horizontally.	m	24		
131	Ditto but in foundations.	m	32		
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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>				
132	Extra over brickwork for face brickwork externally.	m2	24		
	<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>				
133	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	40		
	<u>Plastic water tanks etc:</u>				
134	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	5		
135	Hole top of tank for 100mm pipe.	No	5		
	<u>THE FOLLOWING IN ELEVATED TANKS</u>				
	<u>Earthworks</u>				
	<u>Site Clearance, etc.</u>				
136	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	21		
137	Stripping average 300mm thick layer of topsoil and stockpiling on site.	m2	21		
	<u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
138	Holes	m3	7		
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	<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation in:</u>				
139	Soft rock.	m3	2		
140	Hard rock.	m3	1		
	<u>Keeping excavations free of water:</u>				
141	Keeping excavations free from mud and all water including subterranean sources.		Item		
	<u>Risk of collapse of excavations other than bulk:</u>				
142	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep.	m2	24		
	<u>Carting away.</u>				
143	Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations.(measured nett - no allowance made for bulking)	m3	5		
	<u>Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
144	Backfilling to trenches, holes, etc.	m3	3		
	<u>Compaction of surfaces.</u>				
145	Stabilize in-situ reduced levels by scarifying to depth of 150mm and compacting to a density of 98% Modified AASHTO maximum density.	m2	25		
	<u>Prescribed density tests on filling</u>				
146	Modified AASHTO Density test.	No	6		
	<u>Keeping excavations free of water:</u>				
147	Keeping excavations entirely free of all water or mud.		Item		
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	<u>High Tensile steel reinforcement to structural concrete work:</u>				
158	Reinforcement bars of various diameters.	t	3.00		
	<u>STRUCTURAL STEELWORK (PROVISIONAL)</u>				
	<u>Galvanised mild steel:</u>				
159	24mm Diameter galvanised mild steel holding down bolt 750mm long with one end threaded and fitted with nut and two washers and other end fitted with 12mm thick plate size 70 x 70mm holed in centre and welded to end of bolt.	No	24		
	<u>Water storage TANK STAND:</u>				
160	Supply and Erect Galvanised Mild Steel Water Tank Stand to support 2 x 10 000 litre Polyethylene Water Tanks (elsewhere measured) at 9000mm height above natural ground level.	t	2.50		
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
	<u>Galvanised steel Pipe</u>				
161	65mm Mild steel galvanised pipes fixed to elevated tank stand.	m	24		
	<u>Extra over for pipe fittings.</u>				
162	Bend	No	8		
	<u>ELEVATED POLYETHYLENE WATER TANK</u>				
163	Supply and Install 1 x 10 000 litre Polyethylene water tank complete with all control valves, fittings, holding down ties or straps etc and install to Elevated tank stand (elsewhere measured) at 9 000mm height from natural ground level.	No	2		
	<u>Testing:</u>				
164	Allow for testing the whole of the water supplies to the satisfaction of the Principal Agent and Local Authorities. All defective work is to be taken out and replaced at the Contractor's expense and the whole re-tested until found perfect.		Item		
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THE FOLLOWING IN BUFFER TANKS

Site Clearance etc.

165	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	48
166	Stripping average 300mm thick layer of topsoil and stockpiling on site.	m2	48

Open face excavation not exceeding 2m deep:

167	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m3	29
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Excavation Other than Bulk

Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:

168	Trenches, Holes	m3	36
	<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation in:</u>		
169	Soft rock.	m3	14
170	Hard rock.	m3	7

Risk of collapse of excavations other than bulk:

171	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep.	m2	27
172	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level exceeding 1,5m deep. not exceeding 3.0m deep.	m2	9

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	<u>Carting away.</u>		
173	Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations.(measured nett - no allowance made for bulking)	m3	36
	<u>Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density:</u>		
	<u>Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density:</u>		
174	Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.	m3	14
175	Backfilling to trenches, holes, etc.	m3	4
	<u>Filling with approved 5% stabilised G6 backfill soilcrete supplied and carted onto site by the Contractor and compacted to 95% Mod AASHTO density:</u>		
176	Under trenches, holes, surface beds, etc.	m3	3
	<u>Compaction of surfaces.</u>		
177	Compaction of ground surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material from excavated material where necessary and compacting to 87% Mod AASHTO density.	m2	18
	<u>Prescribed density tests on filling</u>		
178	Modified AASHTO Density test.	No	1
	<u>Keeping excavations free of water:</u>		
179	Keeping excavations entirely free of all water or mud.		Item
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
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<u>UNDERGROUND STORAGE TANKS</u>			
190	6 000 L Polyethylene Collection Tank installed at 2 000mm depth, Installation complete with 50mm Brass float valve, low level override float sender unit, pipework installed in between tanks.	No	1
	<u>Sundries:</u>		
191	Galvanized reno mattresses 2.0m X 1.0m X 0.3m deep with 60 x 80 mm mesh filled with 100 - 150mm stones.	m3	1
	<u>Carting of Water</u>		
192	Supply/carting of portable water to an elevated tank including once off testing of reliable source	l	20 000
<u>MANHOLE COVERS</u>			
193	600 x 600mm Type 2A Heavy duty cast iron manhole cover and frame to SABS 558.	No	2
<u>UNDERGROUND PUMP:</u>			
	<u>Prepare and Install a complete set of submersible pump:</u>		
194	SVM 285/07 Wet End	No	2
195	1,5KW Franlil 230V Motor.	No	1
196	1,5KW Data 120 Control Box.	No	1
197	32mm Base plate cast iron.	No	1
198	2,5mm X 4 Core Aquavern submersible cable (meters).	m	50
199	HDPE 32mm Class 12 piping (meters).	No	50
200	Installation and Commission.		Item
	<u>Connection to existing water supply</u>		
201	Allow for connection to existing water supply.		Item
Carried to Collection			R
Section 4			
Bill No. 1			
External Works			

**TOM'S PLACE PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME**

Section 4

Bill No. 1

External Works

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

Carried Forward

R

Section 4

Bill No. 1

External Works

Section 4

Bill No. 1

External Works

COLLECTION

Brought Forward

Total Brought Forward from Page No.

**Page
No**

Amount

R

100

101

102

103

104

105

106

107

Carried to Final Summary

R

Section 4

Bill No. 1

External Works

Item No	Quantity	Rate	Amount
<u>SECTION 5</u>			
<u>BILL No. 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
<u>BUDGETARY ALLOWANCES</u>			
<u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u>			
<u>BUDGETARY ALLOWANCE FOR RENOVATIONS TO EXISTING TOILETS</u>			
1	Provide the sum of R100 000.00 (One Hundred Thousand Rand) for Renovations to the existing ablutions at the instruction of the Principal Agent.	Item	100 000.00
<u>COMMUNITY LIAISON OFFICER</u>			
2	Provide the sum of R58 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (9 months)	Item	58 500.00
3	Add: Mark-up	%	
Carried to Collection			R
Section 5			
Bill No. 1			
Provisional Sums			

ELECTRICAL INSTALLATION

- 4 Provide the sum of R 150 000.00 (One Hundred and Fifty Thousand Rand) for Electrical installation.
- 5 Add: Profit
- 6 Add: Attendance

Item

150 000.00

%

%

Carried to Collection

R

Section 5
Bill No. 1
Provisional Sums

Section 5

Bill No. 1

Provisional Sums

COLLECTION

Total Brought Forward from Page No.

**Page
No**

110

111

Amount

Carried to Final Summary

R

Section 5
Bill No. 1
Provisional Sums

Section No	FINAL SUMMARY	Page No	Amount
1	PRELIMINARIES	30	
2	DECANTING PROVISION	31	
3	BUILDING WORKS	78	
4	EXTERNAL WORKS (PROVISIONAL)	109	
5	PROVISIONAL SUMS	112	
SUB-TOTAL			R
<u>CONTINGENCIES</u> Allow the amount of R150 000.00 (One Hundred and Fifty Thousand Rand Only) for contingencies, to be used at the discretion of the Architect and to be omitted in whole or in part		Item	150 000.00
SUB-TOTAL			R
Add Value Added Tax at the rate of 15%			R
Carried to Form of Offer and Acceptance			R