

SECTION 1

BILL No.1

PRELIMINARIES

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.

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.

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.

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.

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.

Carried to Collection

Section 1
Bill No. 1
Preliminaries

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.

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.

Carried to Collection

Section 1
Bill No. 1
Preliminaries

R

SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

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

Clause 3.3 is deleted and substituted with:

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

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

Item

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

	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:	Item		
	Carried to Collection		R	
	Section 1 Bill No. 1 Preliminaries			

	Contract instructions (Clause 17).			
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		
Carried to Collection			R	
Section 1				
Bill No. 1				
Preliminaries				

25	F: V: T: Final completion (Clause 26). 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"	Item		
26	F: V: T: Sectional completion (Clause 28).	Item		
27	F: V: T: Revision of date for practical completion (Clause 29).	Item		
28	F: V: T: Penalty for non-completion (Clause 30).	Item		
29	F: V: T: <u>PAYMENT</u> 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.	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T:

Item

Recovery of expense and loss (Clause 33).

31 F: V: T:

Item

Final account and final payment (Clause 34).

32 F: V: T:

Item

Payment to other parties (Clause 35).

33 F: V: T:

Item

CANCELLATION

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

34 F: V: T:

Item

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

35 F: V: T:

Item

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

36 F: V: T:

Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T:

Item

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

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

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

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 :-

Carried to Collection

Section 1
Bill No. 1
Preliminaries

R

To be advised.

Penalty amount will be 5,75c/R100 of Contract Sum.

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

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

Clause 42.3.2

Supplementary insurance is required : Yes

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

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

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

Carried to Collection

Section 1
Bill No. 1
Preliminaries

R

DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

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

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

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

Clause 42.4.4

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

Clause 42.4.5

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

Clause 42.4.6

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

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

41 F: V: T:

DOCUMENTS (B2)

Checking of documents (B2.1)

Item

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

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

42 F: V: T:

Item

Provisional Bills of Quantities (B2.2) YES

Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.

43 F: V: T:

Item

Availability of construction documentation (B2.3)

44 F: V: T:

Item

Interests of Agents (B2.4)

45 F: V: T:

Item

Priced documents (B2.5)

46 F: V: T:

Item

Tender submission (B2.6)

Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.

47 F: V: T:

Item

THE SITE (B3)

Defined works area (B3.1)

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.

Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.

The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.

48	F: V: T:	Item		
	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)			

Carried to Collection

Section 1
Bill No. 1
Preliminaries

R

56 F: V: T:

Articles of value (B3.10)

57 F: V: T:

Inspection of adjoining properties (B3.11)

58 F: V: T:

MANAGEMENT OF CONTRACT (B4)

Management of the Works (B4.1)

59 F: V: T:

Programme for the Works (B4.2)

60 F: V: T:

Progress meetings (B4.3)

61 F: V: T:

Technical meetings (B4.4)

62 F: V: T:

SAMPLES AND SHOP DRAWINGS (B5)

Samples of materials (B5.1)

63 F: V: T:

Workmanship samples (B5.2)

64 F: V: T:

Shop drawings (B5.3)

65 F: V: T:

TEMPORARY WORKS AND PLANT (B6)

Deposits and fees (B6.1)

Carried to Collection

Section 1
Bill No. 1
Preliminaries

Item

Item

Item

Item

Item

Item

Item

Item

Item

Item

R

66	F: V: T: 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.	Item		
67	F: V: T: Advertising (B6.3)	Item		
68	F: V: T:	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

	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		
	Carried to Collection		R	
	Section 1 Bill No. 1 Preliminaries			

	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		
	Carried to Collection		R	
	Section 1 Bill No. 1 Preliminaries			

[illegible]

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

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

C4. Overtime

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:

Carried to Collection

R

Section 1
Bill No. 1
Preliminaries

	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
99	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
100	F: V: T: C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.	Item		
101	F: V: T: C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item		
102	F: V: T: C10. Method Statement	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

	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.			
103	F: V: T: C11. Unauthorised Persons/Workmen on Premises 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. 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.	Item		
104	F: V: T: C12. Mode of Procedure 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. 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.	Item		
105	F: V: T:	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.			
106	F: V: T: <u>C14. Office accommodation</u> 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]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T: C16. Removal and Making Good of Temporary Works, etc, on Completion 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.	Item		
110	F: V: T:	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries				

111

SUB - TOTAL: FIXED ITEMS

112

SUB - TOTAL: VALUE - RELATED ITEMS

113

SUB - TOTAL: TIME - RELATED ITEMS

Item

Item

Item

Section 1

Bill No. 1

Preliminaries

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Carried Forward

R

Section 1

Bill No. 1

Preliminaries

Section 1

Bill No. 1

Preliminaries

COLLECTION

Brought Forward

Total Brought Forward from Page No.

**Page
No**

Amount

R

21
22
23
24

Carried Forward to Summary of Section No. 1

Section 1

Bill No. 1

Preliminaries

R

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL No. 2</u>			
<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.			
Carried to Collection		R	
Section 1			
Bill No. 2			
Health and Safety			

The costs included herein must incorporate Community Liaison Officer (CLO).

OCCUPATIONAL HEALTH AND SAFETY

General:

1	Preparation of Contractor's site specific Health and Safety Plan.		Item
2	Submission of the Health and Safety File.		Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	No	1
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	No	1
5	Provision of full time Health and Safety Officer for the entire construction period.	No	1
6	Induction training of personnel.	No	1
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1
<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	100

Carried to Collection

R

Section 1
Bill No. 2
Health and Safety

MBANGE JUNIOR SECONDARY SCHOOL
OMITTED SCOPE
THE MVULA TRUST SAFE PROGRAMME

14	Dust Masks.	No	100	
	<u>Costs of Medical Certificates and Medical Surveillance:</u>			
15	Initial (baseline) medical examinations.	No	1	
16	Exit Examinations.	No	1	
	<u>Noise Monitoring:</u>			
17	Establishment of noise zones.	No	2	
18	Audiograms.	No	20	
	<u>C16. Covid-19 Compliance Measures</u>			
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.		Item	
Carried to Collection				
Section 1 Bill No. 2 Health and Safety				R

Section 1
Bill No. 2
Health and Safety

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

27
28
29

Carried Forward to Summary of Section No. 1

Section 1
Bill No. 2
Health and Safety

R

[illegible]

**Item
No**

SECTION 2

BILL No. 1

ALTERATIONS

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

View site

Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

Explosives

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

General

Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.

Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.

Carried to Collection

R

Section 2
Bill No. 1
Alterations

Removal of asbestos material

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

The following shall apply in respect of asbestos removal

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

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

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

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

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

Carried to Collection

Section 2
Bill No. 1
Alterations

R

REMOVAL OF EXISTING WORK

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

- 1 Remove VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere).

No

2

ROOF COVERINGS

Sealing of existing roof

- 2 Carefully examine existing entire roof area ,locate leaks with particular attention given to roof leaks where marks are visible on walls and ceilings, locate holes, solder, replace defective screws using longer screws where necessary

m2

32

IRONMONGERY

BATHROOM ACCESSORIES

Halcast or equal approved"

- 3 Thiefproof toilet roll holder plugged.

No

4

Satin Grey Plastics or equal approved

- 4 "Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.

No

4

METALWORK

Steel door frames

- 5 Allow for re-fixing of existing doors, warn out door frames, align PCC units, etc and leave in good working order (Prime cost amount R15 000.00).

Item

PLUMBING AND DRAINAGE

SANITARY FITTINGS

Carried to Collection

R

Section 2
Bill No. 1
Alterations

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

6	VIP 450 Pit pedestal complete with intergral flap four times plugged to floor with and including 6 x 75mm masonry anchors.
---	--

No

2

Vent Pipes

7	Allow for re-fixing and replacing worn out vent pipes including supplying and installing brackets with screws fixed to concrete panels and leave in good working order (Prime cost amount R5 000.00).
---	---

Item

PVC waste or vent pipes and fittings

8	50mm Waste pipe
---	-----------------

m

6

Extra over for :

9	50mm Bend
---	-----------

No

6

10	50mm Access bend
----	------------------

No

6

WATER SUPPLIES

Galvanised pipes, excavation, cartaway, etc

11	15mm Pipes
----	------------

m

45

Cobra Watertech

12	15mm brass tap
----	----------------

No

3

Extra over galvanised pipes for fittings

13	15mm fittings
----	---------------

No

13

Carried to Collection

R

Section 2
Bill No. 1
Alterations

Section 2

Bill No. 1

Alterations

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

32

33

34

35

Carried to Final Summary

R

Section 2
Bill No. 1
Alterations

SECTION No. 4

BILL No. 1

EXTERNAL WORKS (PROVISIONAL)

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

THE FOLLOWING IN ONE BRICK WALL
(GARDEN WALL)

Excavation in earth not exceeding 2m deep:

1	Trenches.	m3	25
	<u>Extra over all excavations for carting away:</u>		
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	25
	<u>Risk of collapse of excavations:</u>		
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	49
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>		
4	Backfilling to trenches, holes, etc.	m3	17
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>		
5	Under footings.	m3	4

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:

Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:

Carried to Collection

R

Section 3
Bill No. 1
External Works

	<u>Compaction of surfaces</u>			
6	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m ²	25	
	<u>25 Mpa/19mm Concrete</u>			
7	Strip footings.	m ³	6	
	<u>Test blocks:</u>			
8	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5	
	<u>Reinforcement (Provisional)</u>			
9	High tensile steel reinforcement bars to structural concrete work.	t	1.70	
	<u>BRICKWORK IN FOUNDATIONS.</u>			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>			
10	One brick walls.	m ²	28	
	<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>			
11	One brick walls.	m ²	5	
	<u>Brickwork reinforcement:</u>			
12	230mm Wide reinforcement built in horizontally.	m	117	
13	Ditto but in foundations.	m	117	
	Carried to Collection			R
	Section 3 Bill No. 1 External Works			

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):

14	One brickwall faced on both sides.	m2	35	
----	------------------------------------	----	----	--

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:

15	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	35	
----	---	---	----	--

Carried to Collection

R

Section 3
 Bill No. 1
 External Works

<u>STORMWATER CHANNELS</u>					
<u>Excavation not exceeding 2m deep</u>					
16	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	9		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
17	Off site to a dumping site to be found by the Contractor.	m3	9		
<u>Filling supplied by the contractor under channels</u>					
18	G7 Base course material compacted to 98% Mod AASHTO density	m3	5		
19	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>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>					
20	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	20		
21	Extra for 700mm angle	No	4		
22	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	1		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

	<u>Sundries:</u>				
23	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	20		
24	Construct shaped earth V-drain 2m wide with grass runners	m	20		
	<u>THE FOLLOWING IN DISABLED ACCESS</u>				
	<u>ACCESS RAMPS</u>				
	<u>Demolish and remove</u>				
25	Ramps	m3	4		
26	80mm thick ramps and walkways	m2	11		
27	230mm Brick ramp walls not more than 1m high	m	15		
28	Extra over for removal foundations (Provisional)	m	15		
	<u>Extra over bulk excavations in earth for breaking up and removing</u>				
29	Brickwork	m3	3		
30	Unreinforced concrete	m3	2		
31	Reinforced concrete	m3	2		
	<u>Excavation not exceeding 2m deep</u>				
32	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	3		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
33	Off site to a dumping site to be found by the Contractor.	m3	3		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
34	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
	Carried to Collection			R	
	Section 3				
	Bill No. 1				
	External Works				

**MBANGE JUNIOR SECONDARY SCHOOL
OMITTED SCOPE
THE MVULA TRUST SAFE PROGRAMME**

35	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2		
	<u>Coarse river sand filling supplied by the contractor:</u>				
36	Under floors etc.	m3	2		
	<u>Compaction of surfaces:</u>				
37	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	18		
	<u>Prescribed density tests on filling:</u>				
38	In-situ dry density test.	No	5		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
39	Ramps, Landings, etc.	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
40	Surface beds, slabs, etc to falls and currents.	m2	18		
	<u>Test blocks:</u>				
41	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
42	12mm Joints not exceeding 300mm high.	m	3		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
43	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	3		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

Fabric reinforcement:

44	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	18
----	---	----	----

Waterproofing under Surface beds

45	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	18
----	---	----	----

THE FOLLOWING IN ONE BRICK WALL
(SCREEN WALL)

Excavation in earth not exceeding 2m deep:

46	Trenches.	m3	22
----	-----------	----	----

Extra over all excavations for carting away:

47	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	22
----	---	----	----

Risk of collapse of excavations:

48	Sides of trench and hole excavations not exceeding 1.5m deep.	m2	36
----	---	----	----

Earth filling obtained from the excavations and/or
prescribed stock piles on site compacted to 93% MOD
AASHTO density:

49	Backfilling to trenches, holes, etc.	m3	12
----	--------------------------------------	----	----

Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:

50	Under footings.	m3	5
----	-----------------	----	---

Carried to Collection

R

Section 3
Bill No. 1
External Works

Compaction of surfaces

51	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

21

25 Mpa/19mm Concrete

52	Strip footings.
----	-----------------

m3

8

Test blocks:

53	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).
----	---

No

5

Reinforcement (Provisional)

54 High tensile steel reinforcement bars to structural concrete work.

t

0.80

BRICKWORK IN FOUNDATIONS.

Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):

55 | One brick walls.

m2

15

BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):

56 | One brick walls.

m2

15

Brickwork reinforcement:

57 | 230mm Wide reinforcement built in horizontally.

m

120

58 Ditto but in foundations.

m

40

Carried to Collection

R

Section 3
Bill No. 1
External Works

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):

59	One brickwall faced on both sides.	m2	44	
----	------------------------------------	----	----	--

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:

60	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	28	
----	---	---	----	--

Carried to Collection

R

Section 3
 Bill No. 1
 External Works

<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>							
	<u>Excavation not exceeding 2m deep</u>						
61	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	81				
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>						
62	Off site to a dumping site to be found by the Contractor.	m3	81				
	<u>Filling supplied by the contractor under driveways</u>						
63	G7 Base course material compacted to 98% Mod AASHTO density	m3	40				
64	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	41				
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>						
65	Under floors,etc.	m2	270				
	<u>Prescribed density tests on filling:</u>						
66	In-situ dry density test.	No	10				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>						
67	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	270				
	<u>150-175mm diameter bollards</u>						
68	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	16				
<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>							
Carried to Collection						R	
Section 3							
Bill No. 1							
External Works							

<u>STORMWATER APRONS</u>					
<u>Excavation not exceeding 2m deep</u>					
69	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	18		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
70	Off site to a dumping site to be found by the Contractor.	m3	18		
<u>Filling supplied by the contractor under floors, aprons, etc</u>					
71	G7 Base course material compacted to 98% Mod AASHTO density	m3	9		
72	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	9		
<u>Coarse river sand filling supplied by the contractor:</u>					
73	Under floors etc.	m3	1		
<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	40		
<u>Prescribed density tests on filling:</u>					
75	In-situ dry density test.	No	6		
<u>Reinforced 25Mpa/19mm Concrete:</u>					
76	Surface beds cast in panels on waterproofing.	m3	4		
77	Edge thickening	m3	2		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
78	Surface beds, slabs, etc to falls and currents.	m2	40		
	<u>Test blocks:</u>				
79	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
80	12mm Joints not exceeding 300mm high.	m	4		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
81	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	4		
	<u>Fabric reinforcement:</u>				
82	150REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	40		
	<u>Waterproofing under Surface beds</u>				
83	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	40		
Carried to Collection				R	
Section 3 Bill No. 1 External Works					

<u>STORMWATER CHANNELS</u>					
<u>Excavation not exceeding 2m deep</u>					
84	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	9		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
85	Off site to a dumping site to be found by the Contractor.	m3	9		
<u>Filling supplied by the contractor under channels</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	4		
<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>					
88	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	20		
89	Extra for 700mm angle	No	6		
90	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	2		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

Sundries:

91	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high
----	---

m

20

92	Construct shaped earth V-drain 2m wide with grass runners
----	---

m

20

**THE FOLLOWING IN SUB-SOIL DRAINAGE,
ETC.**

Site Clearance, ETC

93	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush. etc
----	--

m2

30

Excavation in earth not exceeding 2m deep:

94 | Trenches.

m3

19

Extra over all excavations for carting away:

95 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.

m3

19

Risk of collapse of excavations:

96	Sides of trench and hole excavations not exceeding 1,5m deep.
----	---

m2

48

97 Ditto, but from ground level to exceeding 1,5m.

m2

6

Earth filling obtained from the excavations and/or
prescribed stock piles on site compacted to 93% MOD
AASHTO density:

98 Backfilling to trenches, holes, etc.

m3

19

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:

99	19mm Stone.
----	-------------

m3

12

Carried to Collection

R

Section 3
Bill No. 1
External Works

	<u>Membrane</u>				
100	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	69		
	<u>Keeping excavations free of water:</u>				
101	Keeping excavations free from mud and all water including subterranean sources.		Item		
	<u>Compaction of surfaces</u>				
102	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	21		
Carried to Collection					R
Section 3 Bill No. 1 External Works					

<u>SOIL DRAINAGE</u>					
<u>110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>					
103	110mm uPVC pipe.	m	30		
<u>Extra for:</u>					
104	110mm Tee.	No	2		
105	110mm Y junction.	No	2		
<u>THE FOLLOWING IN SOAKAWAY</u>					
<u>Site Clearance, Etc</u>					
106	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	2		
<u>Excavation in earth not exceeding 2m deep:</u>					
107	Holes	m3	2		
<u>Extra over all excavations for carting away</u>					
108	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	2		
<u>Risk of collapse of excavations</u>					
109	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	4		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>					
110	Backfilling to holes	m3	2		
Carried to Collection				R	
Section 3					
Bill No. 1					
External Works					

[illegible]

THE FOLLOWING IN RETAINING WALLS, ETC.			
	<u>Excavation in earth not exceeding 2m deep</u>		
114	Trenches.	m3	24
	<u>Risk of collapse of excavations:</u>		
115	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	48
	<u>Keeping excavations free of water:</u>		
116	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>		
117	Off site to a dumping site to be found by the Contractor.	m3	24
	<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>		
118	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	8
	<u>Compaction of surfaces</u>		
119	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	21
	<u>15Mpa/19mm Concrete</u>		
120	Surface blinding under footings and bases.	m3	1
	<u>30Mpa/19mm Concrete</u>		
121	Strip footings.	m3	8
Carried to Collection			
Section 3 Bill No. 1 External Works			R

**MBANGE JUNIOR SECONDARY SCHOOL
OMITTED SCOPE
THE MVULA TRUST SAFE PROGRAMME**

	<u>Test blocks:</u>				
122	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	<u>Fabric reinforcement:</u>				
123	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	21		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
124	One brick wall in structural brickwork	m2	23		
	<u>Brickwork reinforcement:</u>				
125	230mm Wide reinforcement built in horizontally.	m	99		
	<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>				
126	One brick wall in face brickwork	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>				
127	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	30		
	<u>Openings in Walls etc.</u>				
128	Leave or form 32mm weephole through one brick wall	No	5		
	<u>Membranes</u>				
129	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	69		
Carried to Collection					R
Section 3					
Bill No. 1					
External Works					

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;

130	19mm Stone.
-----	-------------

m3

9

THE FOLLOWING IN RAINWATER TANKS
EXISTING STANDS STANDS

Plastic water tanks etc:

131	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

132	Hole top of tank for 100mm pipe.
-----	----------------------------------

No

Carried to Collection

R

Section 3
Bill No. 1
External Works

THE FOLLOWING IN SECURITY FENCING, ETC

Site clearance

133	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	95
-----	---	----	----

Straining wires, fencing and razor wire:

134	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	380
-----	--	---	-----

135	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	285
-----	--	---	-----

136	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	95
-----	--	---	----

Posts for 1 800mm high security fence:

137	60mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	30
-----	--	----	----

138	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	15
-----	--	----	----

139	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	15
-----	---	----	----

Carried to Collection

R

Section 3
Bill No. 1
External Works

MBANGE JUNIOR SECONDARY SCHOOL
OMITTED SCOPE
THE MVULA TRUST SAFE PROGRAMME

140	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	8		
141	Form 12mm diameter hole through fence post.	No	8		
	<u>Gates:</u>				
142	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
143	Security fence single gate, size 5 500 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
Carried to Collection					R
Section 3					
Bill No. 1					
External Works					

Section 3
Bill No. 1
External Works
COLLECTION

Total Brought Forward from Page No.

Page
No

Amount

37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56

Carried Forward

R

Section 3
Bill No. 1
External Works

Section 3
Bill No. 1
External Works
COLLECTION

Brought Forward
Total Brought Forward from Page No.

**Page
No** **Amount**

R

57
58
59

Carried to Final Summary

R

Section 3
Bill No. 1
External Works

SECTION 5

BILL No. 1

PROVISIONAL SUMS

SUPPLEMENTARY PREAMBLES

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.

BUDGETARY ALLOWANCES

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:

1	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (months)	Item	22 500.00
2	Add: Mark-up	%	
3	Provide the sum of R105 000.00 for the hire,maintenance and servicing of temporary toilets for educators and leanersduring the entire construction period.	Item	105 000.00
4	Add: Mark-up	%	

Carried to Collection

Section 4
Bill No. 1
Provisional Sums

5

Provide the sum of R50 000.00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required

6

Add: Mark-up

Item

50 000.00

%

Carried to Collection

R

Section 4

Bill No. 1

Provisional Sums

Section 4
Bill No. 1
Provisional Sums

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

62

63

Carried to Final Summary

R

Section 4
Bill No. 1
Provisional Sums

[illegible]