

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL No.1</u>			
<u>PRELIMINARIES</u>			
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. 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.			
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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 :-

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Penalty amount will be R 2000.00 per calendar day to a maximum of 10% of Contract Value

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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	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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	Plant and equipment (B6.4)			
69	F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item		
70	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item		
71	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)			
72	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
73	F: V: T: Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
74	F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
75	F: V: T:	Item		
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	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: V: T:	Item		
	<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: C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.	Item	
98	F: V: T: C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book:	Item	
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	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		
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	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		
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	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.			
106	F: V: T: <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		
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LANGELIHLE JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME

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112	SUB - TOTAL: VALUE - RELATED ITEMS	Item
113	SUB - TOTAL: TIME - RELATED ITEMS	Item
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OCCUPATIONAL HEALTH AND SAFETY

General:

1	Preparation of Contractor's site specific Health and Safety Plan.		Item
2	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item
3	Provision of full time Health and Safety Officer for the entire construction period.		Item
4	Provision of first aid boxes.	No	1
5	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	50
6	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1

Provision for Personal Protective Equipment and Protective Clothing:

7	Reflective vests.	No	35
8	Hard hats.	No	35
9	Protective foot wear.	No	35
10	Ear Plugs.	No	35
11	Dust Masks.	No	35

Costs of Medical Certificates and Medical Surveillance:

12	Initial (baseline) medical examinations.	No	35
13	Exit Examinations.	No	35

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Health and Safety

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Section 1

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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Section 2
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Earthworks (Provisional)

EXCAVATION OTHER THAN BULK

Excavation in earth not exceeding 2m deep:

1	Trenches. A0 : 5 A1 : 3	m3	8
2	Reduced levels under floors. A0 : 20 A1 : 10	m3	30

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

3	Soft rock. A0 : 4 A1 : 2	m3	6
4	Hard rock. A0 : 8 A1 : 4	m3	12

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. A0 : 25 A1 : 13	m3	38
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Risk of collapse of excavations:

6	Sides of trench and hole excavations not exceeding 1,5m deep. A0 : 18 A1 : 9	m2	27
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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, steps, pavings, trenches, etc. A0 : 5 A1 : 3	m3	8
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Section 2
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Earthworks (Provisional)

	<u>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.</u>				
9	Under floors, steps, pavings, trenches, etc. A0 : 13 A1 : 10	m3	24		
	<u>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.</u>				
10	Under floors, steps, pavings, trenches, etc. A0 : 9 A1 : 7	m3	16		
	<u>Coarse river sand filling supplied by the contractor:</u>				
11	Under floors etc. A0 : 3 A1 : 2	m3	5		
	<u>Compaction of surfaces:</u>				
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. A0 : 61 A1 : 44	m2	106		
	<u>Prescribed density tests on filling:</u>				
13	Allow for compaction tests by an approved laboratory to determine density of filling material. A0 : 8 A1 : 0	No	8		
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SOIL POISONING

**Approved brand of anti-termite soil poison applied
by a Registered Pest Control company and
guaranteed against termite infestation for ten years:**

14	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming. A0 : 36 A1 : 19	m2	54		
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Section 2

Bill No. 1

Earthworks (Provisional)

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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Section 2
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. A0 : 2 A1 : 1	m3	3
---	--	----	---

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/20mm concrete:

2	Raft slab on waterproofing. A0 : 11 A1 : 6	m3	17
---	--	----	----

TEST BLOCKS

Test blocks:

3	Making and testing of 150x150x150mm concrete strength test cubes (Provisional). A0 : 6 A1 : 0	No	6
---	--	----	---

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Section 2
Bill No. 2
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FINISHING TOP SURFACE OF CONCRETE

Finishing top surfaces of concrete smooth with a wood float:

- | | | | | |
|---|---|----|----|--|
| 4 | Surface beds, suspended slabs, etc.
A0 : 36 A1 : 19 | m2 | 54 | |
|---|---|----|----|--|

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough Formwork to Sides:

- | | | | | |
|---|---|---|----|--|
| 5 | Edges, risers, ends and reveals not exceeding 300mm high or wide.
A0 : 22 A1 : 22 | m | 44 | |
|---|---|---|----|--|

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth Formwork to Sides:

- | | | | | |
|---|--|---|----|--|
| 6 | Edges, risers, ends and reveals not exceeding 300mm high or wide.
A0 : 12 A1 : 7 | m | 19 | |
|---|--|---|----|--|

REINFORCEMENT (PROVISIONAL)

- | | | | | |
|---|--|---|------|--|
| 7 | High tensile steel reinforcement bars to structural concrete work.
A0 : 2.08 A1 : 0.37 | t | 2.45 | |
|---|--|---|------|--|

Fabric reinforcement:

- | | | | | |
|---|--|----|----|--|
| 8 | REF. 888 fabric reinforcement in concrete footings, walls, base slabs etc.
A0 : 36 A1 : 19 | m2 | 54 | |
|---|--|----|----|--|

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Bill No. 2

Concrete, Formwork and Reinforcement

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

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

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

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Section 2
Bill No. 3
Waterproofing

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.
A0 : 36 A1 : 19

m2

54

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Waterproofing

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Section 2

Bill No. 3

Waterproofing

SIGN PLATES:

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

- | | | | |
|---|--|----|---|
| 1 | Sign plate plugged and screwed to walls with chromium plated dome headed screws.
A0 : 2 A1 : 2 | No | 4 |
|---|--|----|---|

SUNDRIES

- | | | | |
|---|---|----|---|
| 2 | Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.
A0 : 1 A1 : 0 | No | 1 |
|---|---|----|---|

- | | | | |
|---|---|----|---|
| 3 | 38mm Diameter black rubber door stop plugged and screwed to wall.
A0 : 5 A1 : 3 | No | 8 |
|---|---|----|---|

Halcast or equal approved"

- | | | | |
|---|--|----|---|
| 4 | Thiefproof toilet roll holder plugged.
A0 : 5 A1 : 3 | No | 8 |
|---|--|----|---|

Grade 304 stainless steel ware:

- | | | | |
|---|--|----|---|
| 5 | 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.
A0 : 1 A1 : 0 | No | 1 |
|---|--|----|---|

- | | | | |
|---|---|----|---|
| 6 | 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.
A0 : 1 A1 : 0 | No | 1 |
|---|---|----|---|

Satin Grey Plastics or equal approved

- | | | | |
|---|---|----|---|
| 7 | "Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.
A0 : 2 A1 : 2 | No | 4 |
|---|---|----|---|

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Section 2
Bill No. 4
Ironmongery

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Ironmongery

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Bill No. 4

Ironmongery

<u>Extra for:</u>					
4	50mm Bend. A0 : 15 A1 : 9	No	24		
5	50mm Access bend. A0 : 5 A1 : 3	No	8		
6	Envirosan or equal approved fly screens to top of 110 diameter vent pipe. A0 : 5 A1 : 3	No	8		
<u>WATER SUPPLIES</u>					
<u>Polycop pipes:</u>					
Pipes shall be class 10.					
<u>Fixing of pipes</u>					
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					
<u>Reducing fittings:</u>					
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.					
<u>Class 10 Polycop pipes:</u>					
7	15mm Pipes. A0 : 35 A1 : 26	m	61		
8	22mm Pipes. A0 : 25 A1 : 18	m	43		
<u>Extra over polycop pipes for compression fittings:</u>					
9	15mm Fittings. A0 : 20 A1 : 23	No	43		
10	22mm Fittings. A0 : 15 A1 : 12	No	27		
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Plumbing and Drainage (Provisional)					

LOCKABLE MANHOLE COVERS

- 11 600mm diameter lockable circular type M4A product or similar approved manhole SANS 1882 medium duty Dough Moulding compound 4A hinged lid and frame cast into concrete upstand.

A0 : 2 A1 : 2

No

4

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Section 2
Bill No. 5
Plumbing and Drainage (Provisional)

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THE MVULA TRUST SAFE PROGRAMME

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Bill No. 5

Plumbing and Drainage (Provisional)

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Plumbing and Drainage (Provisional)

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	<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>WATER RETICULATION</u>			
	<u>WATER SUPPLY IN GROUND</u>			
	<u>HDPE 100PN 12.5 pressure pipes:</u>			
1	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	112	
2	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	85	
	<u>Extra over (PN12.5) HDPE piping for fittings:</u>			
3	32mm Bend.	No	12	
4	32mm Adaptor.	No	5	
5	40mm Bend.	No	8	
6	32mm Tee.	No	6	
7	40mm Tee.	No	6	
	<u>TAPS, VALVES, ETC</u>			
8	32mm "Cobra" Ball Valve complete with adaptors for HDPE pipe.	No	5	
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<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>			
14	110mm Bend	No	12
15	160mm Bend	No	12
16	110mm Rodding eye	No	4
17	160 x 110mm Reducing junction	No	5
<u>PRE-CAST CONCRETE MANHOLES</u>			
<u>Pre-cast concrete circular inspection chambers including pre-cast concrete cover slabs, covers and channels in benching</u>			
18	Manhole 1000mm diameter exceeding 1m and not exceeding 2m deep.	No	3
<u>SUNDRIES</u>			
<u>Earthworks</u>			
19	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m3	2
20	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m3	2
21	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	No	5
<u>Manhole covers</u>			
22	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	3
<u>Connection</u>			
23	Allow for connecting to sewer drainage system		Item
<u>Testing:</u>			
24	Testing drainage system.		Item
<u>THE FOLLOWING IN WALKWAYS</u>			
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<u>ACCESS RAMPS</u>					
<u>Excavation not exceeding 2m deep</u>					
34	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	15		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
35	Off site to a dumping site to be found by the Contractor.	m3	15		
<u>Filling supplied by the contractor under floors, aprons, etc</u>					
36	G7 Base course material compacted to 98% Mod AASHTO density	m3	15		
<u>Coarse river sand filling supplied by the contractor:</u>					
37	Under floors etc.	m3	2		
<u>Compaction of surfaces:</u>					
38	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	30		
<u>Prescribed density tests on filling:</u>					
39	In-situ dry density test.	No	4		
<u>Reinforced 25Mpa/19mm Concrete:</u>					
40	Ramps, Landings, etc.	m3	3		
<u>Finishing top surfaces of concrete smooth with a wood float:</u>					
41	Surface beds, slabs, etc to falls and currents.	m2	30		
<u>Test blocks:</u>					
42	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
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	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
43	12mm Joints not exceeding 300mm high.	m	20		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
44	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	20		
	<u>Fabric reinforcement:</u>				
45	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	30		
	<u>Waterproofing under Surface beds</u>				
46	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	30		
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**THE FOLLOWING IN STORMWATER
DRAINAGE, APRONS ETC.**

STORMWATER APRONS

Excavation not exceeding 2m deep

47	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	11
----	--	----	----

Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

48	Off site to a dumping site to be found by the Contractor.	m3	11
----	---	----	----

Filling supplied by the contractor under floors, aprons, etc

49	G7 Base course material compacted to 98% Mod AASHTO density	m3	7
----	---	----	---

Coarse river sand filling supplied by the contractor:

50	Under floors etc.	m3	2
----	-------------------	----	---

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	23
----	--	----	----

Prescribed density tests on filling:

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

53	Surface beds cast in panels on waterproofing.	m3	2
----	---	----	---

54	Edge thickening	m3	1
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Finishing top surfaces of concrete smooth with a wood float:

55	Surface beds, slabs, etc to falls and currents.	m2	23
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	<u>Test blocks:</u>					
56	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>					
57	12mm Joints not exceeding 300mm high.	m	45			
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>					
58	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	18			
	<u>Fabric reinforcement:</u>					
59	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	23			
	<u>Waterproofing under Surface beds</u>					
60	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m ²	23			
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STORMWATER CHANNELS

Excavation not exceeding 2m deep

61	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	16
----	--	----	----

Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

62	Off site to a dumping site to be found by the Contractor.	m3	16
----	---	----	----

Filling supplied by the contractor under channels

63	G7 Base course material compacted to 98% Mod AASHTO density	m3	20
----	---	----	----

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.

64	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	45
----	---	---	----

65	Extra for 700mm angle	No	8
----	-----------------------	----	---

66	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
----	---	----	---

Sundries:

67	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	20
----	---	---	----

THE FOLLOWING IN RAINWATER TANKS AND STANDS

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	<u>Excavation in earth not exceeding 2m deep:</u>				
68	Trenches.	m3	11		
69	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	8		
	<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	19		
	<u>Risk of collapse of excavations:</u>				
71	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	22		
	<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	3		
	<u>Filling supplied by the contractor under strip footing, floors etc.</u>				
73	G7 Base course material compacted to 98% Mod AASHTO density	m3	13		
	<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	16		
	<u>25 MPa/19mm Concrete:</u>				
75	Concrete raft slab on waterproofing.	m3	2		
	<u>Test blocks:</u>				
76	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
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**LANGELIHLE JUNIOR SECONDARY SCHOOL
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	<u>Site clearance</u>				
86	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	60		
	<u>Straining wires, fencing and razor wire:</u>				
87	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	60		
88	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	60		
89	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	60		
	<u>Posts for 1 800mm high security fence:</u>				
90	60mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	20		
91	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	4		
92	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	4		
93	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	8		
94	Form 12mm diameter hole through fence post.	No	80		
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**LANGELIHLE JUNIOR SECONDARY SCHOOL
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External Works

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	<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>PRE-FABRICATED STRUCTURES</u> NOTE: Shop drawings / Specifications will be required for approval by the Principal Agent PRIOR to installation. The ABT Specialist Supplier must be competent person registered with relevant statutory body, all ABT construction shall comply with SABS standards and approved by AGREEMENT SA. <u>The Structures to be erected will be as follows:</u> Learners and Staff ablution structure on concrete slab, size 9400 x 3080 x 3120mm high complete with 4No. external door including security gate, 4No. internal doors, 13No. windows, 5No. WCs, 1No. urinals, 4No. wash hand basin etc. Grade R ablution structure on concrete slab, size 5400 x 3080 x 3120mm high complete with 1No. external doors including security gate, 7No. windows, 1No. WC, 2No. junior WCs, 2No. wash hand basins etc. <u>Pre-fabricated Modular Units shall comprise of:</u>			
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	Provisional Sums			

- Internal and external walls made of 40mm thick wall panel which consist of 0.5mm rigidised pre-painted white galvanised chromadek sheeting on both sides including base rails, top rails all joined with aluminium rivets
- 600 x 600mm high casement type (W1) natural anodised aluminium window including frames and 4mm obscure glass with one top hung opener; Windows are to be secured with aluminium profile burglar proofing
- 813 x 2032mm high external doors manufactured from the same materials as the walls and fitted with hinges, five lever mortice lock, complete with striker plates, two keys chrome plated handles, etc
- 813 x 1882mm high internal door manufactured from the same materials as the walls and fitted with hinges, 3 lever mortice lock complete with striker plates, two keys chrome plated handles, etc
- Galvanised mild steel security gate 900 x 2050mm high overall size
- 2mm thick vinyl sheeting on floors
- The roof is to be 0.5mm Chromadek IBR sheeting mono pitched roof with mono pitched galvanised ridge capping, 255mm lapping secured onto the roof including light steel frame roof at 6 degree slope
- 125mm half round PVC gutters including gutter brackets at 1000mm centres with 75mm rainwater PVC fluted downpipes connected to 5000L plastic water tanks (elsewhere measured)
- Medium density plain un-grooved fascia boards
- 85 x 275 x 6.0mm barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc
- Plumbing and sanitary fittings shall comprise of WCs, Urinals, Wash hand basins, 15mm and 22mm polycop water supply pipes, 50mm diameter PVC drainage pipes and associated accessories

Carried to Collection

Section 4
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Provisional Sums

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**LANGELIHLE JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME**

1	Provide the sum of R655 000.00 for the supply and installation of Alternative Building Technology (ABT) toilet structures, as above described, by a nominated sub-contractor.	Item		655 000.00
2	Add: Profit on above		%	
3	Add: Attendance on above		%	
<u>ELECTRICAL INSTALLATION</u>				
4	Provide the sum of R80 000.00 for Electrical supply cables, flexible sleeves, terminations and lightning protection including COCs.	Item		80 000.00
5	Add: Profit on above		%	
6	Add: Attendance on above		%	
<u>COMMUNITY LIAISON OFFICER</u>				
7	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
8	Add: Profit on above		%	
9	Add: Attendance on above		%	
Carried to Collection				R
Section 4				
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Provisional Sums				

LANGELIHLE JUNIOR SECONDARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME

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