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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:	Item		
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	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		
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25	<p>F: V: T:</p> <p>Final completion (Clause 26).</p> <p>Latent defects liability period (Clause 27).</p> <p>Clause 27.0 is amended by the addition of the following clauses:</p> <p>"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".</p> <p>"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"</p>	Item		
26	<p>F: V: T:</p> <p>Sectional completion (Clause 28).</p>	Item		
27	<p>F: V: T:</p> <p>Revision of date for practical completion (Clause 29).</p>	Item		
28	<p>F: V: T:</p> <p>Penalty for non-completion (Clause 30).</p>	Item		
29	<p>F: V: T:</p> <p><u>PAYMENT</u></p> <p>Interim payment to the contractor (Clause 31).</p> <p>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.</p>	Item		
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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T: Item

Recovery of expense and loss (Clause 33).

31 F: V: T: Item

Final account and final payment (Clause 34).

32 F: V: T: Item

Payment to other parties (Clause 35).

33 F: V: T: Item

CANCELLATION

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

34 F: V: T: Item

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

35 F: V: T: Item

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

36 F: V: T: Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T: Item

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

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

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London**Carried to Collection**

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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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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.

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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:

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DOCUMENTS (B2)

Checking of documents (B2.1)

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	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: 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.	Item		
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)	Item		
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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)

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56	F: V: T: Articles of value (B3.10)	Item		
57	F: V: T: Inspection of adjoining properties (B3.11)	Item		
58	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item		
59	F: V: T: Programme for the Works (B4.2)	Item		
60	F: V: T: Progress meetings (B4.3)	Item		
61	F: V: T: Technical meetings (B4.4)	Item		
62	F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item		
63	F: V: T: Workmanship samples (B5.2)	Item		
64	F: V: T: Shop drawings (B5.3)	Item		
65	F: V: T: <u>TEMPORARY WORKS AND PLANT (B6)</u> Deposits and fees (B6.1)	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		
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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

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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:

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

<u>General:</u>				
1	Preparation of Contractor's site specific Health and Safety Plan.		Item	
2	Submission of the Health and Safety File.		Item	
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item	
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item	
5	Provision of full time Health and Safety Officer for the entire construction period.		Item	
6	Induction training of all 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	200	
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	
14	Dust Masks.	No	400	
<u>Costs of Medical Certificates and Medical Surveillance:</u>				
15	Initial (baseline) medical examinations for all personnel	No	1	
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MODEL PREAMBLES

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

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Nature of material to be excavated:

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".

Carting away of excavated material:

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.

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.

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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.

EXCAVATION OTHER THAN BULK**Excavation in earth not exceeding 2m deep:**

6	Trenches.	m3	3
7	Holes under concrete strip footing.	m3	1

Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density

8	Not exceeding 500mm deep for placing and removing formwork to walls etc 500mm away from excavated face	m3	3
9	Exceeding 1m and not exceeding 1.5m deep for placing and removing formwork to walls etc 500mm away from excavated face	m2	6

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

10	Soft rock.	m3	2
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Compaction of surfaces:

20	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	6
----	--	----	---

Prescribed density tests on filling:

21	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	4
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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:

22	To bottoms and sides of trenches, holes, etc.	m2	11
----	---	----	----

CONCRETE, FORMWORK AND REINFORCEMENT**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**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

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Cost of tests:

The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).

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.

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

30MPa/20mm concrete:

23	Footings under existing strip footings	m3	2
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TEST BLOCKS**Test blocks:**

- | | | | |
|----|---|----|---|
| 24 | Making and testing of 150x150x150mm concrete strength test cubes (Provisional). | No | 4 |
|----|---|----|---|

ROUGH FORMWORK (DEGREE OF ACCURACY III)**Rough Formwork to Sides:**

- | | | | |
|----|---|---|---|
| 25 | Edges, risers, ends and reveals not exceeding 300mm high or wide. | m | 4 |
|----|---|---|---|

REINFORCEMENT (PROVISIONAL)

- | | | | |
|----|--|---|------|
| 26 | High tensile steel reinforcement bars to structural concrete work. | t | 0.20 |
|----|--|---|------|

IRONMONGERY**BATHROOM FITTINGS****Stainless steel bathroom fittings**

- | | | | |
|----|--|----|---|
| 27 | Free standing She Bin; manufactured from Grade 304 1,2/1,5mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity. | No | 8 |
|----|--|----|---|

PLUMBING AND DRAINAGE (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

SANITARY FITTINGS

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	<u>Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:</u>				
28	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3		
	<u>SANITARY PLUMBING</u>				
	<u>PVC waste or vent pipes and fittings:</u>				
29	50mm Waste pipe.	m	2		
	<u>Extra for:</u>				
30	50mm Bend.	No	1		
31	50mm Access bend.	No	1		
	<u>PAINTWORK</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>				
	<u>Trade Names</u>				
	Where trade names are specified it will read "or equal approved"				
	<u>Epoxy paint</u>				
	The product and its methodology for application must be approved by Principal Agent before it is used.				
	Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.				
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Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.

PAINTWORK ETC TO EXISTING WORK

Prepare and apply one coat plaster primer, one coat universal undercoat and two coats "Wall & All" or other equal approved washable suede sheen acrylic PVA paint on:

32	Internal smooth plastered wall in narrow widths not exceeding 300mm wide	m2	10
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ON PVC VENT PIPE

Prepare and apply two coats black PVA paint:

33	Vent Pipes	m2	18
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	<u>BILL No. 4</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</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>THE FOLLOWING IN WALKWAYS</u>			
	<u>Cutting out and breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>			
1	80mm thick ramps and walkways	m2	2	
	<u>Excavation not exceeding 2m deep</u>			
2	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	10	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
3	Off site to a dumping site to be found by the Contractor.	m3	7	
	<u>Filling supplied by the contractor under walkways</u>			
4	G7 Base course material compacted to 98% Mod AASHTO density	m3	3	
5	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	3	
	<u>Coarse river sand filling supplied by the contractor:</u>			
6	Under floors etc.	m3	1	
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	<u>Compaction of surfaces:</u>				
7	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		
	<u>Prescribed density tests on filling:</u>				
8	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
9	Walkways, Ramps, Landings, etc.	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
10	Surface beds, slabs, etc to falls and currents.	m2	23		
	<u>Test blocks:</u>				
11	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>				
12	12mm Joints not exceeding 300mm high.	m	19		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
13	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	19		
	<u>Fabric reinforcement:</u>				
14	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	23		
	<u>Waterproofing under Surface beds</u>				
15	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	23		
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	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
16	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	23		
	<u>THE FOLLOWING IN DISABLED ACCESS</u>				
	<u>ACCESS RAMPS</u>				
	<u>Excavation not exceeding 2m deep</u>				
17	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	5		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
18	Off site to a dumping site to be found by the Contractor.	m3	1		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
19	G7 Base course material compacted to 98% Mod AASHTO density	m3	1		
20	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	1		
	<u>Coarse river sand filling supplied by the contractor:</u>				
21	Under floors etc.	m3	0.3		
	<u>Compaction of surfaces:</u>				
22	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	3		
	<u>Prescribed density tests on filling:</u>				
23	In-situ dry density test.	No	2		
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	<u>Reinforced 25Mpa/19mm Concrete:</u>				
24	Ramps, Landings, etc.	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
25	Surface beds, slabs, etc to falls and currents.	m2	7		
	<u>Test blocks:</u>				
26	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
27	12mm Joints not exceeding 300mm high.	m	4		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
28	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	4		
	<u>Fabric reinforcement:</u>				
29	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	7		
	<u>Waterproofing under Surface beds</u>				
30	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	7		
	<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>				
	<u>Excavation not exceeding 2m deep</u>				
31	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	38		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
32	Off site to a dumping site to be found by the Contractor.	m3	29		
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	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
41	Off site to a dumping site to be found by the Contractor.	m3	21		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
42	G7 Base course material compacted to 98% Mod AASHTO density	m3	12		
43	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	13		
	<u>Coarse river sand filling supplied by the contractor:</u>				
44	Under floors etc.	m3	12		
	<u>Compaction of surfaces:</u>				
45	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	61		
	<u>Prescribed density tests on filling:</u>				
46	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
47	Surface beds cast in panels on waterproofing.	m3	11		
48	Edge thickening	m3	4		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
49	Surface beds, slabs, etc to falls and currents.	m2	82		
	<u>Test blocks:</u>				
50	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>				
51	12mm Joints not exceeding 300mm high.	m	42		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
52	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	70		
	<u>Fabric reinforcement:</u>				
53	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	61		
	<u>Waterproofing under Surface beds</u>				
54	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	61		
	<u>STORMWATER CHANNELS</u>				
	<u>Excavation not exceeding 2m deep</u>				
55	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	23		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
56	Off site to a dumping site to be found by the Contractor.	m3	23		
	<u>Filling supplied by the contractor under channels</u>				
57	G7 Base course material compacted to 98% Mod AASHTO density	m3	7		
58	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	7		
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	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.				
59	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	70		
60	Extra for 700mm angle	No	15		
61	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	3		
	<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>				
	<u>Site Clearance, ETC</u>				
62	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	196		
	<u>Excavation in earth not exceeding 2m deep:</u>				
63	Trenches.	m3	700		
	<u>Extra over trench and hole excavations in earth for excavation in:</u>				
64	Soft rock.	m3	27		
65	Hard rock.	m3	18		
66	Reinforced concrete	m3	18		
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	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
84	Backfilling to holes	m3	2		
	<u>Earth filling with stone material supplied by the contractor:</u>				
85	Stone (>53mm).	m2	1		
	<u>Membranes</u>				
86	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	12		
	<u>Keeping excavations free of water</u>				
87	Keeping excavations free of all water other than subterranean water		Item		
	<u>THE FOLLOWING IN HEADWALLS</u>				
88	Excavation not exceeding 2m deep.	m3	3		
89	Risk of collapse not exceeding 1,5m deep	m2	2		
90	Keeping excavations free from water		Item		
91	Carting away surplus excavated material	m3	0.3		
92	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
93	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
94	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	1		
95	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	5		
96	Weld Mesh Ref 193 in Concrete bottom slab.	m2	5		
97	One brick wall of 14 MPa NFX bricks.	m2	2		
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98	230mm Wide reinforcement built in horizontally.	m	13
99	Plaster on brick walls.	m2	2
100	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	2
<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>			
<u>Site clearance</u>			
101	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	64
<u>Straining wires, fencing and razor wire:</u>			
102	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	256
103	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	192
104	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	64
<u>Posts for 1 800mm high security fence:</u>			
105	60mm Diameter galvanised steel intermediate fencing post 2400mm 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	26

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106	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		
107	150mm Ditto as gate post 2 400mm 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	2		
108	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	4		
109	Form 12mm diameter hole through fence post.	No	4		
	<u>Gates:</u>				
110	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		
	<u>PADLOCKS</u>				
111	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	1		
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Item No		Quantity	Rate	Amount
	<u>BILL No. 5</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u>			
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 (3 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 learners during the entire constructions period	Item		105 000.00
4	Add: Mark-up		%	
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	Item		50 000.00
6	Add: Mark-up		%	
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	<u>CONTINGENCIES</u>		
	Allow 5% contingencies for Sub-Total 1 to be used as directed by the Principal Agent and deducted in whole or in part if not required	Item	
	SUB-TOTAL (2)		R
	Add Value Added Tax at the rate of 15%		R
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