

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

7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

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

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

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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	
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Recovery of expense and loss (Clause 33).

31	F: V: T:	Item	
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Final account and final payment (Clause 34).

32	F: V: T:	Item	
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Payment to other parties (Clause 35).

33	F: V: T:	Item	
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CANCELLATION

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

34	F: V: T:	Item	
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Cancellation by Employer - Loss and damage (Clause 37).

35	F: V: T:	Item	
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Cancellation by Contractor - Employer's default (Clause 38).

36	F: V: T:	Item	
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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: Greenfield Resources

Postal Address: 142 South Street, Falcon Crest Office Park, Centurion

Telephone: 012 643 0357

Facsimile: 012 643 0357

Physical address: 142 South Street, Falcon Crest Office

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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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	<p>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.</p> <p>Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.</p> <p>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.</p>			
48	<p>F: V: T:</p> <p>Geotechnical investigation (B3.2)</p> <p>A desktop geotechnical report is available upon request.</p>	Item		
49	<p>F: V: T:</p> <p>Inspection of the Site (B3.3)</p>	Item		
50	<p>F: V: T:</p> <p>Existing premises occupied (B3.4)</p>	Item		
51	<p>F: V: T:</p> <p>Previous work - dimensional accuracy (B3.5)</p>	Item		
52	<p>F: V: T:</p> <p>Previous work - defects (B3.6)</p>	Item		
53	<p>F: V: T:</p> <p>Services - known (B3.7)</p>	Item		
54	<p>F: V: T:</p> <p>Services - unknown (B3.8)</p>	Item		
55	<p>F: V: T:</p>	Item		
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	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
	Programme for the Works (B4.2)	
60	F: V: T:	Item
	Progress meetings (B4.3)	
61	F: V: T:	Item
	Technical meetings (B4.4)	
62	F: V: T:	Item
	<u>SAMPLES AND SHOP DRAWINGS (B5)</u>	
	Samples of materials (B5.1)	
63	F: V: T:	Item
	Workmanship samples (B5.2)	
64	F: V: T:	Item
	Shop drawings (B5.3)	
65	F: V: T:	Item
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TEMPORARY WORKS AND PLANT (B6)

Deposits and fees (B6.1)

66 F: V: T:

Item

Enclosure of the works (B6.2)

The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.

67 F: V: T:

Item

Advertising (B6.3)

68 F: V: T:

Item

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	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:

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	<p>C4. Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p>			
97	<p>F: V: T:</p> <p>C5. As built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p>	Item		
98	<p>F: V: T:</p> <p>C6. Construction Instructions</p> <p>Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:</p> <p>a) Construction Instruction Book:</p> <p>Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.</p> <p>Only instructions issued in such book shall be recognised.</p> <p>b) Daily Record Book:</p>	Item		
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	<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	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T:	Item		
	<p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>			
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The costs included herein must incorporate Community Liaison Officer (CLO).

OCCUPATIONAL HEALTH AND SAFETY

General:

1	Preparation of Contractor's site specific Health and Safety Plan.	Item
2	Submission of the Health and Safety File.	Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item
5	Provision of full time Health and Safety Officer for the entire construction period.	Item
6	Induction training of personnel.	Item
7	Provision of first aid boxes.	Item
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	Item
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	Item

Provision for Personal Protective Equipment and Protective Clothing:

10	Reflective vests.	Item
11	Hard hats.	Item
12	Protective foot wear.	Item
13	Ear Plugs.	Item

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**FORMING NEW OPENINGS OR ALTERING
OPENINGS IN EXISTING WALLS**

Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc.

BUILDING UP OPENINGS

Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described

PAINTWORK

Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so.

PROCEDURE OF WORK

The Representative/Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.

LOSS BY THEFT, FIRE OR OTHERWISE

The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site.

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BUILDING WORKS
Bill No. 1
ALTERATIONS

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WATER AND OTHER PIPING

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary and are to be made with proper fittings

ELECTRICAL AND OTHER SERVICES

Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect.

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so.

OCCUPATION OF EXISTING BUILDINGS

Tenderers are advised that the existing buildings will be in occupation during the building operations and due allowance must be made for the work being carried out in such a manner as will least interfere with the general routine of the occupants.

NOISE PREVENTION

The contractor shall take special care to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.

The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match the existing.

ALTERATIONS TO OPENINGS

Where the Contractor is required to form openings, alter openings or brick up openings in existing walls all brickwork shall be made good at jambs including properly bonding to existing. Brickwork in bricking up openings shall be wedged and pinned up

Carried to Collection

BUILDING WORKS
 Bill No. 1
 ALTERATIONS

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MAKING GOOD, ETC

Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.

REMOVAL OF EXISTING WORK

Existing pit toilets

1	Remove existing VIP 200 sit	No	3	
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Breaking out and removing existing walkways

2	Concrete 50mm thick layer	m2	86	
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SUNDRIES

3	Clean out pit latrine by desludging including removal of all debris and waste including soild waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat	No	14	
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Temporary toilet structures

4	Allow for hire of temporary toilets for the learners and staff (2 Staff, 2 Female, 4 Male)		Item	
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BUILDING WORKS
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 ALTERATIONS

Section No. 2

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ALTERATIONS

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BUILDING WORKS
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IRONMONGERY

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BUILDING WORKS
Bill No. 3
METALWORK

Carried to Collection

R

PAINTWORK ETC TO NEW WORK

ON METAL SURFACES

One coat alkyd based zinc phosphate primer and

two coats premium quality polyurethane enamel

paint, on steel

1	To steel balustrades (both sides measured)	m2	69
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BUILDING WORKS

Bill No. 5

PAINTWORK

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Section No. 2

Bill No. 5

PAINTWORK

COLLECTION

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
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	<u>Selected earth supplied by the Contractor including haulage (material to comply with Pi < 10 GM = 1.2)</u>				
7	Over site of Selected Subgrade G7 material in accordance with SABS 1200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	21		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
8	Under floors, etc.	m2	86		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
9	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	86		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25 Mpa/19mm Concrete</u>				
10	Walkway	m3	9		
	<u>Reinforcement (Provisional)</u>				
11	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	86		
	<u>Test blocks:</u>				
12	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
13	12mm Joints not exceeding 300mm high.	m	17		
	Carried to Collection			R	
	EXTERNAL WORKS				
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	EXTERNAL WORKS (PROVISIONAL)				

	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
14	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	17
	<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	86
	<u>ONE BRICK WALL (GARDEN WALL)</u>		
	<u>EXCAVATIONS</u>		
	<u>Excavation in earth not exceeding 2m deep:</u>		
16	Trenches.	m3	54
	<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>		
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
17	Soft rock (LI)	m3	5
18	Hard rock (LI)	m3	3
	<u>Extra over all excavations for carting away:</u>		
19	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	11
	<u>Risk of collapse of excavations:</u>		
20	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	217
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>		
21	Backfilling to trenches, holes, etc.	m3	20
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FACE BRICK

"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2:

29	One brickwall faced on both sides.	m2	45	
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Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:

30	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	181	
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ACCESS DRIVEWAY, ETC.

Excavation not exceeding 2m deep

31	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	201	
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

32	Off site to a dumping site to be found by the Contractor.	m3	201	
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Filling supplied by the contractor under driveways

33	G7 Base course material compacted to 98% Mod AASHTO density	m3	67	
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34	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		
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Carried to Collection

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
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42	Hard rock (LI)	m3	3
	<u>Extra over all excavations for carting away:</u>		
43	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	27
	<u>Risk of collapse of excavations:</u>		
44	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	149
	<u>Keeping excavations free of water:</u>		
45	Keeping excavations free of all water other than subterranean water.		Item
	<u>Filling with approved clean, hard, dry, decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 9% Mod. AASHTO maximum density:</u>		
46	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	14
	<u>Compaction of surfaces</u>		
47	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	57
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>15Mpa/19mm Concrete</u>		
48	Surface blinding under footings and bases	m3	3
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
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30Mpa/19mm Concrete

49	Strip footings.	m3	14
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Test blocks:

50	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	No	3
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Fabric reinforcement:

51	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	57
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MASONRY

BRICKWORK IN FOUNDATIONS.

Brickwork of NFX bricks (14 Mpa nominal compressive strength) in Class I mortar:

52	One brick walls.	m2	38
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53	One and a half brick walls (Detail 3)	m2	
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BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:

54	One brick walls	m2	47
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55	One and a half brick walls (Detail 3)	m2	
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Brickwork reinforcement:

56	230mm wide reinforcement built in horizontally.	m	277
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57	Ditto but in foundations.	m	166
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FACE BRICK

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<u>EXCAVATIONS</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
64	In Aprons	m3	11
<u>Extra over all excavations for carting away:</u>			
65	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	11
<u>Filling supplied by the contractor under concrete pavement, etc</u>			
66	G7 Base course material compacted to 98% Mod AASHTO density	m3	6
<u>Coarse river sand filling supplied by the contractor:</u>			
67	Under floors etc.	m3	2
<u>Compaction of surfaces:</u>			
68	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	43
<u>Reinforced 25Mpa/19mm Concrete:</u>			
69	Surface beds cast in panels on waterproofing.	m3	3
<u>Finishing top surfaces of concrete smooth with a wood float:</u>			
70	Surface beds, slabs, etc to falls and currents.	m2	43
<u>Test blocks:</u>			
71	Making and testing set of three 150x150x150mm concrete strength test cubes.	No	3
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	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>		
72	12mm Joints not exceeding 300mm high.	m	14
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
73	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	14
	<u>Fabric reinforcement:</u>		
74	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	43
	<u>Waterproofing under Surface beds</u>		
75	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	43
	<u>STORMWATER CHANNELS</u>		
	<u>Excavation not exceeding 2m deep</u>		
76	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	54
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
77	Off site to a dumping site to be found by the Contractor.	m3	54
	<u>Filling supplied by the contractor under channels</u>		
78	G7 Base course material compacted to 98% Mod AASHTO density	m3	21
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<u>Extra over all excavations for carting away:</u>					
85	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	153		
<u>Risk of collapse of excavations:</u>					
86	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	306		
<u>Filling supplied by the contractor under channels</u>					
87	G7 Base course material compacted to 98% Mod AASHTO density	m3	115		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>					
88	Backfilling to trenches, holes, etc.	m3	84		
<u>Earth filling 300 x 300mm section of 20mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>					
89	20mm Stone.	m3	21		
<u>Membrane</u>					
90	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	92		
<u>Keeping excavations free of water:</u>					
91	Keeping excavations free from mud and all water including subterranean sources.		Item		
<u>Compaction of surfaces</u>					
92	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	115		
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<u>SOIL DRAINAGE</u>					
<u>110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>					
93	110mm uPVC pipe.	m	77		
<u>Extra for:</u>					
94	110mm Tee.	No	5		
95	110mm Y junction.	No	5		
<u>110mm Diameter uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>					
96	110mm uPVC pipe.	m	11		
<u>Extra for:</u>					
97	110mm Tee.	No	5		
98	110mm Y junction.	No	5		
<u>200mm Diameter uPVC stormwater pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>					
99	110mm uPVC pipe.	m	21		
<u>Extra for:</u>					
100	110mm Tee.	No	5		
101	110mm Y junction.	No	5		
<u>HEADWALLS</u>					
<u>EXCAVATIONS</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
102	Excavation not exceeding 2m deep	m3	9		
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**EXCAVATIONS IN STRATA OF A MORE
DIFFICULT CHARACTER**

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

103	Soft rock (LI)	m3	1
104	Hard rock (LI)	m3	0.5
105	Risk of collapse not exceeding 1.5m deep	m2	53
106	Keeping excavations free from water		Item
107	Carting away surplus excavated material	m3	9
108	150mm layer of G7 material compacted to 95% MOD AASHTO under Concrete slab.	m3	6
109	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	8
110	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	66
111	Weld Mesh Ref 193 in Concrete bottom slab.	m2	21
112	One brick wall of 14 MPa NFX bricks.	m2	9
113	230mm Wide reinforcement built in horizontally.	m	48
114	Plaster on brick walls.	m2	18
115	Gabion and reno mattress (1000mm wide x 300mm deep) comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	10

PERIMETER FENCING

Installation of all fences shall be in accordance with the manufacturer's instructions. Any deviation from the recommended installation instructions shall be corrected at the contractor's cost

The installed fence shall include a minimum of 10-year warranty

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	<u>Site clearance</u>		
116	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	170
	<u>EXCAVATIONS</u>		
	<u>Excavate for bases for fence poles depth not exceeding 1,5m</u>		
117	For bases	m3	4
	<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>		
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
118	Soft rock	m3	0.4
119	Hard rock	m3	0.2
	<u>Earth obtained from the excavations compacted to 95% MOD AASHTO density</u>		
120	Backfilling to trenches and holes compacted in 150 mm layers to 95% Mod AASHTO density	m3	4
	<u>Extra over all excavations for carting away</u>		
121	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	4
	<u>Risk of collapse of excavations</u>		
122	Sides of trench and hole excavations not exceeding 1,5m deep	m2	18
	<u>Soil insecticide in accordance with SANS 5859</u>		
123	To bottoms and sides of trenches etc	m2	6

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	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>30MPa/19mm concrete</u>				
124	Bases	m3	4		
	<u>FENCES, GATES ETC</u>				
	<u>Supply and install security fencing by specialist in accordance with the manufacturer's specification including posts; all fence and posts to be hot dipped galvanized and then powder coated as per the manufacturer's guidelines</u>				
	<u>Straining wires, fencing and razor wire:</u>				
125	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	113		
126	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	113		
127	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 gauge binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	113		
	<u>Posts for 1 800mm high security fence:</u>				
128	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	10		
129	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		
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130	75mm Ditto as intermediate post - 1 dropper every 3000mm between standard posts	No	38		
131	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. (else where measured)	No	6		
132	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	38		
133	Form 12mm diameter hole through fence post.	No	38		
	<u>Gates</u>				
134	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	2		
135	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>Supply and install padlocks</u>				
136	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	3		
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	Sub Total A		R
	Allow a sum of R25 000.00 (Twenty Five Thousand Rands) for the Community Liaison Officer	Item	25 000.00
	Sub Total B		R
	Add a Contingency sum of 5%		R
	Sub Total C		R
	Add Value Added Tax @ 15% of Subtotal 'C'		R
	Carried to Cluster Summary		R