

Item No		Quantity	Rate	Amount
	<u>SECTION No. 1 - PRELIMINARIES</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES</u>			
	<p>1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.</p> <p>2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.</p> <p>3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.</p> <p>4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.</p> <p>5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.</p>			
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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:

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Site representative (Clause 6).

6 F: V: T:

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Compliance with regulations (Clause 7).

7 F: V: T:

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1	<p>Works risk (Clause 8)</p> <p>F: V: T:</p> <p>Indemnities (Clause 9).</p> <p>Clause 9.1.1 is deleted and substituted with:</p> <p>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'.</p>	Item	
2	<p>F: V: T:</p> <p>Works insurances (Clause 10).</p>	Item	
3	<p>F: V: T:</p> <p>Liability insurances (Clause 11).</p>	Item	
4	<p>F: V: T:</p> <p>Effecting insurances (Clause 12).</p>	Item	
5	<p>F: V: T:</p> <p>State Provisions (Clause 13).</p>	Item	
6	<p>F: V: T:</p> <p>Security (Clause 14).</p>	Item	
7	<p>F: V: T:</p> <p><u>EXECUTION</u></p> <p>Preparation for and execution of the works (Clause 15).</p>	Item	
8	<p>F: V: T:</p> <p>Access to the works (Clause 16).</p>	Item	
9	<p>F: V: T:</p>	Item	
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1	<p>Contract instructions (Clause 17).</p> <p>F: V: T:</p> <p>Setting out of the works (Clause 18.3).</p> <p>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.</p>	Item	
2	<p>F: V: T:</p> <p>Assignment (Clause 19).</p>	Item	
3	<p>F: V: T:</p> <p>Nominated subcontractors (Clause 20).</p>	Item	
4	<p>F: V: T:</p> <p>Selected subcontractors (Clause 21).</p>	Item	
5	<p>F: V: T:</p> <p>Employer's Direct contractors (Clause 22).</p>	Item	
6	<p>F: V: T:</p> <p>Contractor's Domestic subcontractors (Clause 23).</p>	Item	
7	<p>F: V: T:</p> <p><u>COMPLETION</u></p> <p>Practical completion (Clause 24).</p>	Item	
8	<p>F: V: T:</p> <p>Works completion (Clause 25).</p>	Item	
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1	<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	
2	<p>F: V: T:</p> <p>Sectional completion (Clause 28).</p>	Item	
3	<p>F: V: T:</p> <p>Revision of date for practical completion (Clause 29).</p>	Item	
4	<p>F: V: T:</p> <p>Penalty for non-completion (Clause 30).</p>	Item	
5	<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).

1	F: V: T:	Item	
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Recovery of expense and loss (Clause 33).

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

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

4	F: V: T:	Item	
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CANCELLATION

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

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

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

7	F: V: T:	Item	
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Cancellation - Cessation of the works (Clause 39).

8	F: V: T:	Item	
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DISPUTE

Dispute Settlement (Clause 40)

1 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

2 F: V: T:

Item

CONTRACT VARIABLES

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

3 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.

Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A

Clause 42.2.5

Date on which possession of the site is intended to be given on :-

To be advised.

Clause 42.2.6

Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.

Completion in Sections are required : NO

Clause 42.2.7

Intended date of practical completion and the penalty per calendar day for the works as a whole :-

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To be advised.

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

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10%

With a deductible of : 5% of insured amount

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: 5% of insured amount

DOCUMENTS (Clause 42.4)

Clause 42.4.1

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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)

1 F: V: T:

DOCUMENTS (B2)

Checking of documents (B2.1)

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.

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1	<p>F: V: T:</p> <p>Provisional Bills of Quantities (B2.2) YES</p> <p>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.</p>	Item	
2	<p>F: V: T:</p> <p>Availability of construction documentation (B2.3)</p>	Item	
3	<p>F: V: T:</p> <p>Interests of Agents (B2.4)</p>	Item	
4	<p>F: V: T:</p> <p>Priced documents (B2.5)</p>	Item	
5	<p>F: V: T:</p> <p>Tender submission (B2.6)</p> <p>Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.</p>	Item	
6	<p>F: V: T:</p> <p><u>THE SITE (B3)</u></p> <p>Defined works area (B3.1)</p> <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>	Item	
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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.

1	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item	
2	F: V: T: Inspection of the Site (B3.3)	Item	
3	F: V: T: Existing premises occupied (B3.4)	Item	
4	F: V: T: Previous work - dimensional accuracy (B3.5)	Item	
5	F: V: T: Previous work - defects (B3.6)	Item	
6	F: V: T: Services - known (B3.7)	Item	
7	F: V: T: Services - unknown (B3.8)	Item	
8	F: V: T: Protection of trees (B3.9)	Item	
9	F: V: T: Articles of value (B3.10)	Item	
10	F: V: T: Inspection of adjoining properties (B3.11)	Item	

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1	F: V: T:	Item	
	<u>MANAGEMENT OF CONTRACT (B4)</u>		
	Management of the Works (B4.1)		
2	F: V: T:	Item	
	Programme for the Works (B4.2)		
3	F: V: T:	Item	
	Progress meetings (B4.3)		
4	F: V: T:	Item	
	Technical meetings (B4.4)		
5	F: V: T:	Item	
	<u>SAMPLES AND SHOP DRAWINGS (B5)</u>		
	Samples of materials (B5.1)		
6	F: V: T:	Item	
	Workmanship samples (B5.2)		
7	F: V: T:	Item	
	Shop drawings (B5.3)		
8	F: V: T:	Item	
	<u>TEMPORARY WORKS AND PLANT (B6)</u>		
	Deposits and fees (B6.1)		
9	F: V: T:	Item	
	Enclosure of the works (B6.2)		
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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.

1 F: V: T:

Item

Advertising (B6.3)

2 F: V: T:

Item

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1	Plant and equipment (B6.4) F: V: T:	Item	
	Main notice board (B6.5) One notice board shall be provided by the Contractor		
2	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item	
3	F: V: T: <u>TEMPORARY SERVICES (B7)</u>	Item	
	Location (B7.1)		
4	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
5	F: V: T: Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
6	F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
7	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).

1 F: V: T:

Item

PRIME COST AMOUNTS (B8)

Responsibility for prime cost amounts (B8.1)

2 F: V: T:

Item

ATTENDANCE ON N/S SUBCONTRACTORS (B9)

General Attendance (B9.1)

3 F: V: T:

Item

Special Attendance (B9.2)

4 F: V: T:

Item

Commissioning - fuel, water and power (B9.3)

5 F: V: T:

Item

FINANCIAL ASPECTS (B10)

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).

6 F: V: T:

Item

Payment of Preliminaries (B10.2)

7 F: V: T:

Item

Adjustment of Preliminaries (B10.3)

8 F: V: T:

Item

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1	Payment certificate cash flow (B10.4) F: V: T:	Item	
2	Contractor information supply (B10.5) F: V: T:	Item	
<u>GENERAL (B11)</u>			
3	Protection of the Works (B11.1) F: V: T:	Item	
4	Protection/isolation of existing/sectionally occupied works (B11.2) F: V: T:	Item	
5	Site security (B11.3) F: V: T:	Item	
6	Notice before covering work (B11.4) F: V: T:	Item	
7	Disturbance (B11.5) F: V: T:	Item	
8	Works cleaning and clearing (B11.6) F: V: T:	Item	
9	Vermin (B11.7) F: V: T:	Item	
10	Overhand work (B11.8) 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.

1 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.

2 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.

3 F: V: T:

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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.

1 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.

2 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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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.

1 F: V: T:

Item

C7. Labour record

At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.

2 F: V: T:

Item

C8. Plant record

At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.

3 F: V: T:

Item

C9. Encroachment

During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.

4 F: V: T:

Item

C10. Method Statement

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1	<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> <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	
2	<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	
3	<p>F: V: T:</p>	Item	
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C13. Location of Temporary Buildings and Temporary Services

The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.

There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.

1 F: V: T:

Item

C14. Office accommodation

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]

2 F: V: T:

Item

C15. Storage Facilities

3 The Contractor shall provide a Container for storage of materials.

Item

4 F: V: T:

Item

C16. Removal and Making Good of Temporary Works, etc, on Completion

The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.

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	<p><u>BILL No. 2</u></p> <p><u>HEALTH AND SAFETY REQUIREMENTS</u></p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.</p> <p>Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.</p> <p>The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.</p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p> <p><u>General:</u></p>			
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		
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1	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item	
2	Provision of full time Health and Safety Officer for the entire construction period.		Item	
3	Induction training of personnel.	No		
4	Provision of first aid boxes.	No		
	<u>Provision for Personal Protective Equipment and Protective Clothing:</u>			
5	Reflective vests.	No		
6	Hard hats.	No		
7	Protective foot wear.	No		
8	Ear Plugs.	No		
9	Dust Masks.	No		
	<u>Costs of Medical Certificates and Medical Surveillance:</u>			
10	Initial (baseline) medical examinations.	No		
11	Exit Examinations.	No		
	<u>Noise Monitoring:</u>			
12	Establishment of noise zones.	No		
13	Audiograms.	No		
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	<u>SECTION No. 2 - BUILDING WORKS</u>			
	<u>BILL No. 1</u>			
	<u>ALTERATIONS, DEMOLITIONS, ETC.</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>DEMOLITIONS</u>			
1	Demolish pit latrine structure comprising of brick work with asbestos roof sheeting, approximate size 4 x 4m wide with 3,5m high top structure and 2,0m deep pit.	No	1	
	<u>CARPENTRY AND JOINERY</u>			
	<u>Timber doors and frames</u>			
2	Take out from one brick wall and cart away single timber door and frame size 813mm wide x 1800mm high including preparing reveals to receive new frame (elsewhere).	No	7	
3	Take out from one brick wall and cart away timber single door 813 x 2032mm high including preparing reveals to receive new frame (elsewhere).	No	3	
	<u>PLUMBING AND DRAINAGE</u>			
	<u>Piping, fittings, etc.</u>			
4	Take off from walls, ceilings, etc. and cart away copper/polycrop water supply piping, fittings, valves, etc. of various diameters including temporary stopping of supply where necessary.	m	34	
5	Take off from walls, ceilings, etc. and cart away PVC waste water piping and fittings of various diameters.	m	34	
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**KHANYOLWETHU SECONDARY SCHOOL
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1	Take off and cart away dual flush actuator plate fixed to cistern including stopping off water supply.	No	7		
	<u>Sanitaryware</u>				
2	Demolish and cart away white glazed WC pan and cistern complete including stopping off water supply.	No	6		
3	Demolish and cart away white glazed wash hand basin including taps, traps, etc. including stopping off water supply.	No	5		
4	Demolish and cart away white glazed bowl urinal including flushing system including stopping off water supply.	No	2		
	<u>Sundries</u>				
5	Take down and cart away toilet roll holders.	No	7		
	<u>PLASTERING</u>				
	<u>Walls</u>				
6	Hack off plaster from brick wall and cart away including preparing to receive new plaster (elsewhere).	m2	85		
	<u>Clean down, etc</u>				
7	High pressure cleaning corrugated metal roof sheeting, etc. including sealing leaks with approved waterproof agent.	m2	131		
	<u>GLAZING</u>				
8	Take out 4mm thick glass from timber window including preparing frame to receive new glass (elsewhere).	m2	3		
9	Broken glass from steel windows, including cleaning out rebates and preparing for new glass	m2	7		
	<u>REFURBISHMENT, PREPARATORY WORKS, ETC.</u>				
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<u>General repair work</u>				
1	Hack plaster from brickwork for a width of 100mm either side of crack, nail galvanised stretch plate over crack with steel nails at 200mm centres to receive plaster (elsewhere).	m	34	
<u>METAL WORK</u>				
<u>Servicing of windows, doors, etc.</u>				
2	Service steel window, size approximately 511 x 654mm high with one top hung opening out light and one fixed light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing.	No	10	
<u>Desludging</u>				
<p>Debris and rubble covering the access to the pit latrine must be cleared and disposed of at a registered landfill site. The pit latrine is to be accessed by the removable cover or removal of the access concrete slab. The solids that cannot be pumped out must be dug out by mechanical means. When the contents of the pit or tank are to be pumped out and the sludge is too firm or dry it must be jetted with a high pressure hose and agitate the mixture of sludge and water with the end of the suction hose before pumping begins. After pumping out the contents of the pit, the tanker must be driven to a legally authorised safe-disposal site, such as an off-site sewage treatment works, where the contents can be emptied. Dry pits or pits containing large quantities of solid materials including stones, sticks, plastic bags, debris, etc. must be cleaned by individuals with hand held mechanical machinery with the appropriate protective gear in terms of the OHS Act as well as certified to work in confined spaces. Contractors are to ensure that the vacuum tankers are suitable to manoeuvre close to latrines without compromising the integrity of the pit latrine</p>				
3	Clean out septic by desludging. Contractor to price per toilet seat approximately 2Kl in volume.	No	1.00	
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	<u>CARPENTRY AND JOINERY</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>JOINERY</u>			
	<u>"Everite Nutec" or equal approved fibre cement</u>			
1	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	26	
2	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.	m	10	
	<u>Doors, windows, sashes, etc.</u>			
	<u>Semi-solid flush panel doors :</u>			
3	40mm Semi-solid core flush door, size 813 x 1732mm high, hung 150mm above floor finish, with commercial grade veneer both sides and concealed edge strips.	No	5	
	<u>SANS Approved meranti:</u>			
4	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1).	No	3	
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Frames, rails, skirtings, etc.

Meranti timber door frames

Note :

All units are to constructed using 70 x 108mm hardwood timber with 19 x 19mm quadrant bead to external face

1	Framed frame, to suit single door size 813 x 2032mm high overall.	No	5
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Skirtings

2	Check timber skirting, realign where necessary and ensure skirting is securely nailed to the wall.	m	62
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Sundries

3	10 x 140mm Door frame anchor countersunk and pelleted in timber frame, at approximately 600mm centres, including forming mortice in brickwork or concrete.	No	7
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	<u>BILL No. 3</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>INTERNAL NAILED UP CEILINGS</u>			
	<u>4mm Thick fibre-cement boards with and including 6 x 32mm wrought meranti coverstrips over joints:</u>			
1	Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	65	
	<u>Trap doors</u>			
2	Extra over 4mm thick fibre cement board ceiling for forming trap door, size 630 x 630mm in clear, formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc.	No	1	
	<u>Cornices</u>			
	<u>Paper covered gypsum cornice with skimmed joints plugged to walls including mitres, etc.:</u>			
3	75mm Coved cornice.	m	64	
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	<u>BILL No. 4</u>			
	<u>IRONMONGERY</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>IRONMONGERY TO TIMBER</u>			
	<u>Hinges, bolts, etc.</u>			
1	100 x 75mm Heavy duty brass butt hinges.	No	7	
	<u>Door stops</u>			
2	Black rubber door stop plugged to wall or floor.	No	7	
	<u>Locksets, etc. provided with two keys and to be masterkeyed</u>			
3	"Union 2277-78SS" or equally approved three lever upright mortice lockset with stainless steel forend and striking plate finish.	No	7	
4	"Union CZ80941SC" or equally approved satin chrome W/C indicator bolt.	No	5	
	<u>Handles, furniture, etc.</u>			
5	"Dormakaba DPH301 B" or other equal approved 325 x 25mm Stainless steel straight tubular pull handle with flange fixing. (Sets)	No	5	
	<u>Stops, holders, hooks, etc.</u>			
6	"Dormakaba DHC-SS-030A" or other equal approved stainless steel single hat and coat hook plugged to door.	No	5	
	<u>Sundries</u>			
7	50mm Plastic key tag.	No	7	
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	<u>BILL No. 6</u>			
	<u>TILING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>INTERNAL FLOOR TILING</u>			
	<u>Ceramic tiles, size 600 x 600mm (P.C. Amount R300.00/m2) sealed to plastered surfaces with 3mm wide joints and grouted in tinted grout:</u>			
1	On floors.	m2	65	
	<u>INTERNAL WALL TILING</u>			
	<u>Ceramic tiles, size 600 x 600mm (P.C. Amount R300.00/m2) sealed to plastered surfaces with 3mm wide joints and grouted in tinted grout:</u>			
2	On walls in patches.	m2	71	
	<u>Miscellaneous</u>			
3	10mm Thick aluminium edge trim.	m	64	
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	<u>BILL No. 7</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>RAINWATER DISPOSAL:</u>			
	<u>Watertite or equal approved Aluminium Gutters and Downpipes:</u>			
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.	m	26	
2	Extra over eaves gutter for stopped end.	No	4	
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	4	
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	12	
5	Extra over rainwater downpipe for bends.	No	4	
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>WATER SUPPLIES</u>			
	<u>Class 10 polycop pipes with straight compression fittings</u>			
6	15mm Pipe and fixing to walls, floors, in roofs, in concrete, etc. including any necessary proprietary holderbats, fixings, etc.	m	34	
7	22mm Ditto.	m	24	
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1	15mm Pipe chased into brickwork.	m	34	
2	22mm Ditto.	m	14	
	<u>Extra over copper pipes for brass compression fittings</u>			
3	15mm Fittings.	No	14	
4	22mm Fittings.	No	15	
	<u>Testing :</u>			
5	Allow for testing the preceding water supply installation in accordance with the National Building Regulations.			Item
	<u>SOIL DRAINAGE</u>			
	<u>uPVC Pipes with solvent welded straight joints :</u>			
6	50mm Pipes.	m	15	
7	110mm Pipes.	m	25	
	<u>Extra over uPVC pipes for solvent welded fittings :</u>			
8	50mm Plain bend.	No	25	
9	110mm Plain bend.	No	25	
10	50mm Access bend.	No	25	
11	110mm Access bend.	No	25	
	<u>Testing :</u>			
12	Allow for testing the preceding sanitary plumbing installation in accordance with the National Building Regulations.			Item
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SANITARY FITTINGS, TANKS, GEYSERS, ETC.

Sanitary fittings, etc.

White glazed vitreous china ware :

1	Rectangular washhand basin, size 560 x 405mm, with one tapholes, one taphole stopper, integrated overflow and chainstay hole, mounted to wall on and including two proprietary semi-concealed cast iron wall brackets with 10mm bolts.	No	6
2	9 Litre cistern size 450 x 192 x 343mm high complete with lid and fitments.	No	5
3	Close coupled washdown suite with 90 degree outlet open rim pan and matching 9 litre front single flush cistern complete with lid, fitments and flushpipe bedded to floor in 1:4 cement mortar mixture.	No	6
4	"Vaal 704001" or equally approved wall hung flat back urinal, size overall 610 x 3850mm, complete with chromium plated back inlet spreader and 38mm chromium plated domical grating hung on and including two proprietary hanger brackets .	No	2

Sanitary fitting sundries

5	Satin chrome thief proof toilet roll holder, TR2, plugged to wall.	No	7
6	Heavy-duty double-flap hinged toilet seat and cover.	No	7
7	150 x 150mm White glazed soap dish.	No	7

Grade 304 stainless steel ware :

8	Grab rail 1200mm long with two flanges "SR 1" plugged to wall with and including stainless steel screws.	No	2
9	Dog leg grab rail with three flanges "DL3" plugged to wall with and including stainless steel screws.	No	2

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Taps, valves, etc.

Solid cast brass taps, valves, etc.

1	15mm Brass ball-o-stop.	No	6
2	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control.	No	6
3	"Flushmaster Junior FJ 6.000" or other equal approved 22mm chromium plated exposed type urinal flushvalve with "FJT 5.5" chromium plated flushpipe, integral non hold-open feature and ball-o-flo valve, with wall plate.	No	7
4	22mm Brass non-return valve.	No	6

Sundries

5	Service tap, mixer, etc. including changing washers and leave in perfect working condition.	No	4
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Waste unions, traps, etc.

Outlets, traps, etc :

6	38mm Chromium plated urinal waste outlet.	No	2
7	50mm Chromium plated brass basin bottle trap.	No	16

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	<u>GLAZING</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>GLAZING</u>			
	<u>GLAZING TO WOOD WITH PINNED BEADS</u>			
	<u>6,38mm Thick normal strength clear laminated safety glass :</u>			
1	In panes exceeding 0,1m2 and not exceeding 0,5m2 in area.	m2	5	
	<u>Glass tops, shelves, doors, mirrors, etc.</u>			
2	4mm Thick polished float glass mirror, size 450 x 600mm, four times plugged to wall with and including chromium plated dome headed screws.	No	4	
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	<u>PAINTWORK</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>REDECORATION OF EXISTING</u>			
	<u>PREVIOUSLY PAINTED CONCRETE, PLASTER, ETC</u>			
	<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior washable acrylic washable emulsion sheen paint on:</u>			
1	Internal plastered walls.	m2	110	
	<u>PREVIOUSLY PAINTED GYPSUM PLASTERBOARD</u>			
	<u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior acrylic emulsion sheen paint on:</u>			
2	Internal ceiling boarding.	m2	65	
	<u>NEW WORKS</u>			
	<u>PAINT ON TIMBER</u>			
	<u>Prime or oil on :</u>			
3	Backs of frames or linings not exceeding 300mm girth.	m	34	
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Prepare and apply one coat pink wood primer, one undercoat and two coats water based eggshell enamel on :

1	Surfaces of flush panel doors.	m2	24	
2	Surfaces of frames and linings.	m2	16	

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	<u>BILL No. 10</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>THE FOLLOWING IN WATER SUPPLY</u>			
	<u>ALTERATIONS TO EXISTING</u>			
1	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	7	
2	Locate, cut into and temporarily stop off 54mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	7	
3	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	7	
	<u>PIPEWORK, ETC.</u>			
	<u>Pipes, pipe fittings, etc.</u>			
	<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>			
4	32mm Pipe and laying in ground not exceeding 1000mm deep.	m	25	
5	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	15	
	<u>Extra over uPVC pipes for the following fittings</u>			
6	32mm bend.	No	5	
7	40mm bend.	No	5	
8	32mm Tee junction.	No	3	
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**KHANYOLWETHU SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	40mm Tee junction.	No	3
2	32 x 40 x 32mm Reducing tee.	No	2
3	32 x 54 x 32mm Reducing tee.	No	2
4	40 x 63 x 40mm Reducing tee.	No	1
<u>Water supply valve or meter chambers</u>			
5	Excavate for and build valve chamber size 460 x 460 x not exceeding 1000mm deep internally, formed of 300mm thick layer of well backfilling , 200mm high half brick corbelled sides with 75mm brickforce between each course including Type 3A cast iron valve cover and frame size 100 x 230 x 300 encased in a 300mm thick 25mpa mass concrete base.	No	1
<u>Taps, valves, etc.</u>			
6	32mm Gate valve.	No	5
7	32mm Non return valve.	No	5
<u>Testing</u>			
8	Allow for testing the water supply installation in accordance with the National Building Regulations.		Item

THE FOLLOWING IN RAINWATER TANKS AND TANKSTANDS (ALL TRADES)

Rainwater harvesting (Labour intensive)

Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away

9	Reduced levels under solid floors.	m3	1
10	Surface trenches.	m3	6
<u>Excavations in earth of more difficult character</u>			
11	Extra over excavations in earth for excavation in soft rock.	m3	1

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1	Extra over excavations in earth for excavation in hard rock. <u>Carting away of excavated material</u>	m3	0.3		
2	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor. <u>Risk of collapse of excavations</u>	m3	3		
3	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc. <u>Keeping excavations free of water</u>	m2	16		
4	Allow for keeping the excavations free from water. <u>Filling, layerworks, etc.</u>		Item		
5	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 95% Mod AASHTO dry density.	m3	3		
6	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density to trenches, bases, etc. <u>Compaction of surfaces</u>	m3	1		
7	Scarify in-situ material to a depth of 150mm and compact to 95% Mod AASHTO density. <u>Tests</u>	m2	6		
8	Allow for Mod AASHTO density tests on filling. <u>Reinforced concrete 25MPa in:</u>	No	1.00		
9	Strip foundations cast against excavated surfaces.	m3	2		
10	Surface beds cast in panels including temporary formwork.	m3	1		
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**KHANYOLWETHU SECONDARY SCHOOL
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	<u>Sundries</u>				
1	Float surface of concrete to a wood float finish.	m2	6		
	<u>Rough formwork (use and waste) to concrete to:</u>				
2	Edge, riser, etc not exceeding 300mm high.	m	10		
	<u>High tensile welded steel mesh reinforcement :</u>				
3	Ref: 395 cast into concrete surfaces.	m2	6		
4	Ref: 395 cast into concrete strip footings.	m2	7		
	<u>Brickwork in stock bricks in 5:1 cement mortar :</u>				
5	One brick wall.	m2	6		
6	One brick wall in foundations. (Provisional)	m2	3		
	<u>Brickwork sundries :</u>				
7	Galvanised brick reinforcement 150mm wide built horizontally into brickwork.	m	50		
	<u>"Rustgold FBS / Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints</u>				
8	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	6		
9	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations. (Provisional)	m2	3		
	<u>Face brick copings, lintols, cills, etc.</u>				
10	Extra over brickwork for brick-on-edge header course coping including pointing to both faces and top.	m	10		
	<u>Movement joints</u>				
11	10mm Thick bitumen impregnated softboard built vertically between concrete and concrete or brickwork surfaces.	m2	10		
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1	<p>Rake out 10mm wide softboard for a depth of 10mm and seal with an approved 2 part polysulphide sealant.</p> <p><u>Ties, cramps, etc.</u></p>	m	10		
2	<p>38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M8 bolt and nut.</p>	No	4		
3	<p>38 x 1,6mm Galvanised hoop iron tie down, 1200mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.</p> <p><u>250 Micron "Gunplas USB" green polyethylene sheeting</u></p>	No	4		
4	<p>Laid flat under solid floor and over walls.</p> <p><u>Rainwater tanks:</u></p>	m2	6		
5	<p>5000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet , fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection)</p>	No	1		
6	<p>Hole through top of tank lid for 100mm diameter pipe.</p>	No	1		
<p><u>THE FOLLOWING IN SECURITY FENCING TO GROUND STORAGE TANK</u></p> <p><u>SECURITY FENCING</u></p> <p>The Contractor is to allow in his rates for any site clearance, preparation of ground, etc. in order to carry out the work successfully.</p> <p><u>"Clearvu" or equally approved fencing products to be executed in strict accordance with the Manufacturer's instructions</u></p>					
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**KHANYOLWETHU SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Fencing</u>				
1	High security galvanised, marine fusion bond coated, mesh fencing panel, size 3350 x 1800mm high fixed to posts (elsewhere).	m	40	
<u>Posts</u>				
2	Intermediate locking taper post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	20	
3	End or corner square post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	4	
4	Square gate post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap and gate mooring bracket including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	2	
<u>Gates</u>				
5	Single gate, size 1000 x 1800mm high overall formed of square section perimeter framing, rails, etc. and the gate covered with high security galvanised, marine fusion bond coated, mesh including locking mechanism, hinges, drop bolts, etc. as per manufacturer's specifications.	No	1	
<u>Accessories</u>				
6	100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).	m	40	
7	"Union 3122" or other approved 51mm brass padlock with stainless steel shackle.	No	1	
<u>Sundries</u>				
8	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m3	12	
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1	Extra over excavations in earth (concrete bases) for excavation in hard rock.	m3	6
<u>THE FOLLOWING IN GROUND STORAGE TANKS (ALL TRADES)</u>			
<u>EXCAVATIONS, FILLING, ETC.</u>			
<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
2	Reduced levels under solid floors.	m3	11
<u>Excavations in earth of more difficult character</u>			
3	Extra over excavations in earth for excavation in soft rock.	m3	1
<u>Carting away of excavated material</u>			
4	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	8
<u>Risk of collapse of excavations</u>			
5	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	22
<u>Keeping excavations free of water</u>			
6	Allow for keeping the excavations free from water.		Item
<u>Foundation courses</u>			
7	Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 95% modified AASHTO dry density under solid floors.	m3	4
8	Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density under solid floors.	m3	4

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<u>Compaction of surfaces</u>					
1	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	27		
<u>Tests</u>					
2	Allow for Mod AASHTO density tests on filling.	No	3.60		
<u>CONCRETE (Labour intensive)</u>					
<u>Reinforced concrete 30MPa (19mm stone) in:</u>					
3	Rafter slabs cast against excavated surfaces.	m3	8		
<u>Testing</u>					
4	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	Sets	3		
<u>Surface treatment</u>					
5	Float surface of concrete to a wood float finish.	m2	27		
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<u>FORMWORK</u>					
<u>Edges, risers, ends and reveals</u>					
1	Edge, riser, etc exceeding 300mm high.	m2	11		
<u>Projections, grooves, etc.</u>					
2	Labour and material in forming 25 x 25mm chamfer to exposed top edge of concrete.	m	36		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>High tensile welded steel mesh reinforcement :</u>					
3	Ref: 395 cast into concrete surfaces.	m2	27		
<u>PLUMBING AND DRAINAGE</u>					
<u>Pipes, pipe fittings, etc.</u>					
<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>					
4	40mm Pipe.	m	35		
5	50mm Pipe.	m	36		
6	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	45		
<u>Extra over uPVC pipes for the following fittings</u>					
7	40mm Bend.	No	6		
8	50mm Bend.	No	12		
9	40mm Tee junction.	No	6		
10	63 x 40mm Straight reducer	No	5		
<u>Taps, valves, etc.</u>					
11	40mm float valve kit fitted inside of tank.	No	3		
12	40mm In-line strainer.	No	3		
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1	40mm Brass gate valve.	No	3	
2	40mm Brass non return valve.	No	6	
3	40mm Flanged resilient seal gate valve with cap top.	No	6	
4	40mm Flanged pressure reducing valve.	No	6	
	<u>Switch</u>			
5	Float switch fitted inside of tank.	No	3	
	<u>Connections</u>			
	<u>Connection of new to existing pipes</u>			
6	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	6	
7	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	6	
8	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	6	
	<u>Rainwater tanks:</u>			
9	20 000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet, fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection)	No	3	
10	Hole through side of tank for 40mm diameter pipe including adaptor.	No	3	
	<u>Ties, cramps, etc.</u>			
11	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M10 bolt and nut.	No	3	
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**KHANYOLWETHU SECONDARY SCHOOL
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1	38 x 1,6mm Galvanised hoop iron tie down, 2500mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	12		
	<u>Water supply valve or meter chambers</u>				
2	Excavate for and build valve chamber size 565 x 665 x 550mm deep overall formed of precast concrete valve chamber units 1, 2, 3 and 4 with valve box lid-V and 19mm thick layer of 19mm stone in bottom including filling in and ramming.	No	1		
	<u>Pump and Pumphouse</u>				
3	Allow the Budgetary Allowance of R 20 000,00 (Twenty Thousand Rand) for the installation of a 0.75kw water pump including housing, etc.		Item		20,000.00
	<u>ELECTRICAL CONNECTION</u>				
	<u>Electrical Works</u>				
4	Allow the Budgetary Allowance of R 30 000,00 (Thirty Thousand Rand) for the electrical supply to the water pumps, float switches, ect.		Item		30,000.00
	<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>				
	<u>SECURITY FENCING</u>				
	The Contractor is to allow in his rates for any site clearance, preparation of ground, etc. in order to carry out the work successfully.				
	<u>"Clearvu" or equally approved fencing products to be executed in strict accordance with the Manufacturer's instructions</u>				
	<u>Fencing</u>				
5	High security galvanised, marine fusion bond coated, mesh fencing panel, size 3350 x 1800mm high fixed to posts (elsewhere).	m	40		
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**KHANYOLWETHU SECONDARY SCHOOL
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<u>Posts</u>					
1	Intermediate locking taper post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	8		
2	End or corner square post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	4		
3	Square gate post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap and gate mooring bracket including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	2		
<u>Gates</u>					
4	Single gate, size 1000 x 1800mm high overall formed of square section perimeter framing, rails, etc. and the gate covered with high security galvanised, marine fusion bond coated, mesh including locking mechanism, hinges, drop bolts, etc. as per manufacturer's specifications.	No	1		
<u>Accessories</u>					
5	100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).	m	40		
6	"Union 3122" or other approved 51mm brass padlock with stainless steel shackle.	No	1		
<u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u>					
<u>Portable toilets</u>					
7	Supply and erecting of the portable chemical toilet during the duration of the contract.	No	10		
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1	Servicing and maintain the five portable chemical toilets on a weekly basis during duration of the contract. (No = week)	No	10		
2	Removal of the portable chemical toilet on completion of the contract.	No	10		
<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>					
<u>STORMWATER APRONS</u>					
<u>Excavation not exceeding 2m deep</u>					
3	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>					
4	Off site to a dumping site to be found by the Contractor.	m3	5		
<u>Filling supplied by the contractor under floors, aprons, etc</u>					
5	G7 Base course material compacted to 98% Mod AASHTO density	m3	5		
6	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	5		
<u>Coarse river sand filling supplied by the contractor:</u>					
7	Under floors etc.	m3	2		
<u>Compaction of surfaces:</u>					
8	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	31		
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<u>STORMWATER CHANNELS</u>					
<u>Excavation not exceeding 2m deep</u>					
1	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	4		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
2	Off site to a dumping site to be found by the Contractor.	m3	4		
<u>Filling supplied by the contractor under channels</u>					
3	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
4	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2		
<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>					
5	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	27		
6	Extra for 700mm angle	No	2		
7	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	2		
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	<u>Sundries:</u>				
1	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	45		
	<u>THE FOLLOWING IN WALKWAYS</u>				
	<u>Excavation not exceeding 2m deep</u>				
2	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	18		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
3	Off site to a dumping site to be found by the Contractor.	m3	18		
	<u>Filling supplied by the contractor under walkways</u>				
4	G7 Base course material compacted to 98% Mod AASHTO density	m3	18		
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	18		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
6	Under floors,etc.	m2	120		
	<u>Prescribed density tests on filling:</u>				
7	In-situ dry density test.	No	5		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
8	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	120		
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Concrete Paving Blocks

Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:

1	Paving to walkway areas, etc laid to falls.	m2	120	
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Kerbing

Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.

2	Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	160	
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3	Ditto but circular on plan.	m	10	
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<u>BULK SEWER RETICULATION</u>			
<u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u>			
1	110mm Pipes laid in and including trenches not exceeding 1m deep	m	55
2	110mm Pipes laid in and including trenches exceeding 1m but not exceeding 2m deep	m	25
<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>			
3	110mm Bend	No	10
4	160mm Bend	No	7
5	110mm Rodding eye	No	10
6	160 x 110mm Reducing junction	No	7
<u>Manhole covers</u>			
7	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	3
<u>Testing:</u>			
8	Testing drainage system.		Item
<u>Existing Sewer System</u>			
9	Allow the Budgetary Allowance of R 15 000,00 (Fifteen Thousand Rand) for unblocking and make good existing sewer system, etc.		Item
			15,000.00
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THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u>			
	<u>BILL NO.1</u>			
	<u>PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ETC.</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>PROVISIONAL SUM</u>			
	<u>ELECTRICAL INSTALLATION</u>			
1	Provided the Provisional sum of R 60 000.00 (Sixty Thousand Rand) for the refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect.	Item		60,000.00
2	Allow for Profit.		%	
3	Allow for Attendance.		%	
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
4	Provide the sum of R 39 000.00 (Thirty Nine Thousand Hundred Rand) for the employment of a CLO.(R 6 500.00 per month x contract period allowance)	Item		39,000.00
5	Allow for Profit.		%	
	<u>UPGRADING EXISTING BOREHOLE</u>			
6	Provisional Sum of 95 000 (Ninety Five Thousand Rand) for the upgrading of the existing borehole , to be carried out by a specialist contractor.	Item		95,000.00
7	Allow for Profit.		%	
	Carried to Collection		R	
	Section No. 3			
	Bill No. 1			
	PROVISIONAL SUMS, BUDGETARY ALLOWANCES,EC			
	PROVISIONAL BILLS OF QUANTITIES			

1 Allow for Attendance.

%

Carried to Collection

R

Section No. 3
Bill No. 1
PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC

PROVISIONAL BILLS OF QUANTITIES

**KHANYOLWETHU SECONDARY SCHOOL
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 1

PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ECT.

COLLECTION

Total Brought Forward from Page No.

**Page
No**

71

72

Amount

Carried to Final Summary

R

Section No. 3

Bill No. 1

PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC

PROVISIONAL BILLS OF QUANTITIES

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	SECTION NO.1 - PRELIMINIARIES AND GENERAL	30	
2	SECTION NO.2 - BUILDING WORKS	70	
3	SECTION NO.3 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.	73	
	Sub - Total		R
	<u>CONTINGENCY</u>		
	Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R
	Sub - Total		R
	Add Value - Added Tax at the rate applicable as at Tender closing date.		R
	Sub - Total		R
	Carried to Form of Tender		R
	PROVISIONAL BILLS OF QUANTITIES		