

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:

Item

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	Works risk (Clause 8)			
8	F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item		
9	F: V: T: Works insurances (Clause 10).	Item		
10	F: V: T: Liability insurances (Clause 11).	Item		
11	F: V: T: Effecting insurances (Clause 12).	Item		
12	F: V: T: State Provisions (Clause 13).	Item		
13	F: V: T: Security (Clause 14).	Item		
14	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
15	F: V: T: Access to the works (Clause 16).	Item		
16	F: V: T:	Item		
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	Contract instructions (Clause 17).			
17	F: V: T: Setting out of the works (Clause 18.3). The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: V: T: Assignment (Clause 19).	Item		
19	F: V: T: Nominated subcontractors (Clause 20).	Item		
20	F: V: T: Selected subcontractors (Clause 21).	Item		
21	F: V: T: Employer's Direct contractors (Clause 22).	Item		
22	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).	Item		
24	F: V: T: Works completion (Clause 25).	Item		
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25	<p>F: V: T:</p> <p>Final completion (Clause 26).</p> <p>Latent defects liability period (Clause 27).</p> <p>Clause 27.0 is amended by the addition of the following clauses:</p> <p>"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".</p> <p>"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"</p>	Item		
26	<p>F: V: T:</p> <p>Sectional completion (Clause 28).</p>	Item		
27	<p>F: V: T:</p> <p>Revision of date for practical completion (Clause 29).</p>	Item		
28	<p>F: V: T:</p> <p>Penalty for non-completion (Clause 30).</p>	Item		
29	<p>F: V: T:</p> <p><u>PAYMENT</u></p> <p>Interim payment to the contractor (Clause 31).</p> <p>The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.</p>	Item		
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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T: Item

Recovery of expense and loss (Clause 33).

31 F: V: T: Item

Final account and final payment (Clause 34).

32 F: V: T: Item

Payment to other parties (Clause 35).

33 F: V: T: Item

CANCELLATION

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

34 F: V: T: Item

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

35 F: V: T: Item

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

36 F: V: T: Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T: Item

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

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

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

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To be advised.

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

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

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

Clause 42.3.2

Supplementary insurance is required : Yes

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

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

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

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DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

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

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

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

Clause 42.4.4

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

Clause 42.4.5

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

Clause 42.4.6

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

SECTION B: PRELIMINARIES**DEFINITIONS AND INTERPRETATION (B1)**

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

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	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
42	F: V: T: Provisional Bills of Quantities (B2.2) YES Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.	Item		
43	F: V: T: Availability of construction documentation (B2.3)	Item		
44	F: V: T: Interests of Agents (B2.4)	Item		
45	F: V: T: Priced documents (B2.5)	Item		
46	F: V: T: Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.	Item		
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1)	Item		
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The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.

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

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

48 F: V: T: Item

Geotechnical investigation (B3.2)

A desktop geotechnical report is available upon request.

49 F: V: T: Item

Inspection of the Site (B3.3)

50 F: V: T: Item

Existing premises occupied (B3.4)

51 F: V: T: Item

Previous work - dimensional accuracy (B3.5)

52 F: V: T: Item

Previous work - defects (B3.6)

53 F: V: T: Item

Services - known (B3.7)

54 F: V: T: Item

Services - unknown (B3.8)

55 F: V: T: Item

Protection of trees (B3.9)

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56	F: V: T: Articles of value (B3.10)	Item		
57	F: V: T: Inspection of adjoining properties (B3.11)	Item		
58	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item		
59	F: V: T: Programme for the Works (B4.2)	Item		
60	F: V: T: Progress meetings (B4.3)	Item		
61	F: V: T: Technical meetings (B4.4)	Item		
62	F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item		
63	F: V: T: Workmanship samples (B5.2)	Item		
64	F: V: T: Shop drawings (B5.3)	Item		
65	F: V: T: <u>TEMPORARY WORKS AND PLANT (B6)</u> Deposits and fees (B6.1)	Item		
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66	F: V: T: Enclosure of the works (B6.2) The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.	Item		
67	F: V: T: Advertising (B6.3)	Item		
68	F: V: T:	Item		
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SECTION C: SPECIFIC PRELIMINARIES**Section C: Specific Preliminaries:****C1. Proprietary branded products**

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

94 F: V: T:

Item

C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

95 F: V: T:

Item

C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

C4. Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

97 F: V: T:

Item

C5. As built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

98 F: V: T:

Item

C6. Construction Instructions

Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:

a) Construction Instruction Book:

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.

Only instructions issued in such book shall be recognised.

b) Daily Record Book:

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	<p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p>			
103	<p>F: V: T:</p> <p>C11. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p>	Item		
104	<p>F: V: T:</p> <p>C12. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p>	Item		
105	<p>F: V: T:</p>	Item		
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	<p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p>			
106	<p>F: V: T:</p> <p><u>C14. Office accommodation</u></p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p>	Item		
107	<p>F: V: T:</p> <p><u>C15. Storage Facilities</u></p>	Item		
108	<p>The Contractor shall provide a Container for storage of materials.</p>	Item		
109	<p>F: V: T:</p> <p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>	Item		
110	<p>F: V: T:</p>	Item		
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111 SUB - TOTAL: FIXED ITEMS

Item

112 SUB - TOTAL: VALUE - RELATED ITEMS

Item

113 SUB - TOTAL: TIME - RELATED ITEMS

Item

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	<u>SECTION No. 1</u>			
	<u>BILL No. 2</u>			
	<u>HEALTH AND SAFETY</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.			
	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
	Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
	The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
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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 all personnel.	No	1
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	200
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1

Provision for Personal Protective Equipment and Protective Clothing:

10	Reflective vests.	No	20
11	Hard hats.	No	20
12	Protective foot wear.	No	20
13	Ear Plugs.	No	100

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Bill No. 2
Health and Safety
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Health and Safety

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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Removal of asbestos material

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

The following shall apply in respect of asbestos removal

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

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

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

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

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

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Section 1
Bill No. 3
Demolitions

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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DEMOLISHING AND REMOVING

1	Demolish pit latrine structure comprising of brick/block work with corrugated roof sheeting, approximate size 8 x 4m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	1
2	Demolish pit latrine structure comprising of brick/block work with corrugated roof sheeting, approximate size 13 x 4m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	1
3	Cart away rubble from demolitions and dispose off site.		Item
4	Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density.	m3	168
5	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	4
6	Provision of a certificate of safe disposal for asbestos.		Item

SUNDRIES**Desludging**

7	Clean out pit latrine by desludging including removal of all debris and waste including solid 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
8	Issue of Certificate of Waste Disposal.		Item

Carried to Collection**R**

Section 1

Bill No. 3

Demolitions

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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MODEL PREAMBLES

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

SUPPLEMENTARY PREAMBLES**Trade Names**

Where trade names are specified it will read "or equal approved"

Epoxy paint

The product and its methodology for application must be approved by Principal Agent before it is used.

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

Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.

ON PVC VENT PIPE**Prepare and apply two coats black PVA paint:**

10

Vent Pipes

m2

17

Carried to Collection

R

Section 1

Bill No. 4

Sundry Builders Work

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION No. 1</u>			
	<u>BILL No. 5</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches.	m3	31	
	<u>Extra over all excavations for carting away:</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	22	
	<u>Risk of collapse of excavations:</u>			
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	125	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
4	Backfilling to trenches, holes, etc.	m3	15	
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>			
5	Under footings.	m3	7	
	Carried to Collection			
	Section 1			
	Bill No. 5			
	External Works			
	NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS			

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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 (Cement to be 42.5N all-purpose cement):

14	One brickwall faced on both sides.	m2	125
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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:

15	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	89
----	---	---	----

STORMWATER CHANNELS

Excavation not exceeding 2m deep

16	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	21
----	--	----	----

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

17	Off site to a dumping site to be found by the Contractor.	m3	21
----	---	----	----

Filling supplied by the contractor under channels

18	G7 Base course material compacted to 98% Mod AASHTO density	m3	11
----	---	----	----

19	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	11
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Carried to Collection

R

Section 1

Bill No. 5

External Works

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

	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.				
20	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	89		
21	Extra for 700mm angle	No	14		
22	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	3		
<u>THE FOLLOWING IN DISABLED ACCESS</u>					
<u>ACCESS RAMPS</u>					
<u>Excavation not exceeding 2m deep</u>					
23	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>					
24	Off site to a dumping site to be found by the Contractor.	m3	1		
<u>Filling supplied by the contractor under floors, aprons, etc</u>					
25	G7 Base course material compacted to 98% Mod AASHTO density	m3	1		
Carried to Collection				R	
Section 1					
Bill No. 5					
External Works					
NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS					

26	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	1		
	<u>Coarse river sand filling supplied by the contractor:</u>				
27	Under floors etc.	m3	0.1		
	<u>Compaction of surfaces:</u>				
28	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	4		
	<u>Prescribed density tests on filling:</u>				
29	In-situ dry density test.	No	2		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
30	Ramps, Landings, etc.	m3	2		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
31	Surface beds, slabs, etc to falls and currents.	m2	5		
	<u>Test blocks:</u>				
32	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
33	12mm Joints not exceeding 300mm high.	m	3		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
34	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	3		
Carried to Collection					R
Section 1					
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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS					

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	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
43	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	84		
	<u>150-175mm diameter bollards</u>				
44	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	33		
	<u>THE FOLLOWING IN RETAINING WALLS, ETC.</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
45	Trenches.	m3	15		
	<u>Risk of collapse of excavations:</u>				
46	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	50		
	<u>Keeping excavations free of water:</u>				
47	Keeping excavations free of all water other than subterranean water.			Item	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
48	Off site to a dumping site to be found by the Contractor.	m3	4		
	<u>Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
49	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	10		
	Carried to Collection			R	
	Section 1				
	Bill No. 5				
	External Works				
	NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS				

	<u>Compaction of surfaces</u>				
50	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	17		
	<u>15Mpa/19mm Concrete</u>				
51	Surface blinding under footings and bases.	m3	1		
	<u>30Mpa/19mm Concrete</u>				
52	Strip footings.	m3	4		
	<u>Test blocks:</u>				
53	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Fabric reinforcement:</u>				
54	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	17		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
55	330mm thick cavity brick Walls made of two leafs of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured).	m2	34		
	<u>Brickwork reinforcement:</u>				
56	230mm Wide reinforcement built in horizontally.	m	280		
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
57	Extra over brickwork for face brickwork externally.	m2	31		
Carried to Collection					R
Section 1					
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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS					

	<u>Brick-on-edge header course copings, sills, etc. of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>				
58	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	28		
	<u>Openings in Walls etc.</u>				
59	Leave or form 32mm weephole through one brick wall	No	28		
	<u>Membranes</u>				
60	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	34		
	<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>				
61	19mm Stone.	m3	3		
	<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
	<u>STORMWATER APRONS</u>				
	<u>Excavation not exceeding 2m deep</u>				
62	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	27		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
63	Off site to a dumping site to be found by the Contractor.	m3	27		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
64	G7 Base course material compacted to 98% Mod AASHTO density	m3	13		
	Carried to Collection			R	
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	External Works				
	NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS				

65	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	13		
	<u>Coarse river sand filling supplied by the contractor:</u>				
66	Under floors etc.	m3	13		
	<u>Compaction of surfaces:</u>				
67	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	88		
	<u>Prescribed density tests on filling:</u>				
68	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
69	Surface beds cast in panels on waterproofing.	m3	13		
70	Edge thickening	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
71	Surface beds, slabs, etc to falls and currents.	m2	88		
	<u>Test blocks:</u>				
72	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
73	12mm Joints not exceeding 300mm high.	m	74		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
74	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	74		
Carried to Collection				R	
Section 1					
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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS					

	<u>Fabric reinforcement:</u>				
75	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	88		
	<u>Waterproofing under Surface beds</u>				
76	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	88		
	<u>STORMWATER CHANNELS</u>				
	<u>Excavation not exceeding 2m deep</u>				
77	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	27		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
78	Off site to a dumping site to be found by the Contractor.	m3	27		
	<u>Filling supplied by the contractor under channels</u>				
79	G7 Base course material compacted to 98% Mod AASHTO density	m3	8		
80	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	8		
	<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>				
81	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	74		
	Carried to Collection			R	
	Section 1				
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	NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS				

82	Extra for 700mm angle	No	15
83	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	3
<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>			
<u>Site Clearance, ETC</u>			
84	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	140
<u>Excavation in earth not exceeding 2m deep:</u>			
85	Trenches.	m3	500
<u>Extra over all excavations for carting away:</u>			
86	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	56
<u>Risk of collapse of excavations:</u>			
87	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	600
88	Ditto, but from ground level to exceeding 1,5m.	m2	400
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
89	Backfilling to trenches, holes, etc.	m3	402
<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>			
90	19mm Stone.	m3	24

Carried to Collection

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Section 1
 Bill No. 5
 External Works
NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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	<u>Extra over all excavations for carting away</u>				
99	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	1		
	<u>Risk of collapse of excavations</u>				
100	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	12		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
101	Backfilling to holes	m3	2		
	<u>Earth filling with stone material supplied by the contractor:</u>				
102	Stone (>53mm).	m2	1		
	<u>Membranes</u>				
103	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	12		
	<u>Keeping excavations free of water</u>				
104	Keeping excavations free of all water other than subterranean water		Item		
	<u>THE FOLLOWING IN HEADWALLS</u>				
105	Excavation not exceeding 2m deep.	m3	3		
106	Risk of collapse not exceeding 1,5m deep	m2	2		
107	Keeping excavations free from water		Item		
108	Carting away surplus excavated material	m3	0.3		
109	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
110	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
	Carried to Collection			R	
	Section 1				
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	NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS				

THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE

111	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	1		
112	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	5		
113	Weld Mesh Ref 193 in Concrete bottom slab.	m2	5		
114	One brick wall of 14 MPa NFX bricks.	m2	2		
115	230mm Wide reinforcement built in horizontally.	m	13		
116	Plaster on brick walls.	m2	2		
117	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	2		
<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>					
<u>Site clearance</u>					
118	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	64		
<u>Straining wires, fencing and razor wire:</u>					
119	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	256		
120	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	192		
121	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	64		
Carried to Collection				R	
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External Works					
NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS					

	<u>Posts for 1 800mm high security fence:</u>				
122	60mm Diameter galvanised steel intermediate fencing post 2400mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	51		
123	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		
124	150mm Ditto as gate post 2 400mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	2		
125	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	8		
126	Form 12mm diameter hole through fence post.	No	8		
	<u>Gates:</u>				
127	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		
Carried to Collection					R
Section 1					
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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS					

128	<p><u>PADLOCKS</u></p> <p>Supply 50 mm "Viro" Padlocks and Keys (or equal approved)</p> <p>No</p> <p>1</p> <p>Carried to Collection</p> <p>Section 1 Bill No. 5 External Works NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS</p>			R
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Section 1

Bill No. 5

External Works

COLLECTION

Total Brought Forward from Page No.

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No****Amount**

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Section 1

Bill No. 5

External Works

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

Section 1
Bill No. 6
Provisional Sums
NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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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.

SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

Carried to Collection

Section 2

Bill No. 1

Preliminaries

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

Item

R

2	<p>F: V: T:</p> <p>Documents (Clause 3).</p> <p>Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'</p> <p>Clause 3.3 is deleted and substituted with:</p> <p>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'.</p>	Item		
3	<p>F: V: T:</p> <p>Design responsibility (Clause 4).</p>	Item		
4	<p>F: V: T:</p> <p>Employer's agents (Clause 5).</p>	Item		
5	<p>F: V: T:</p> <p>Site representative (Clause 6).</p>	Item		
6	<p>F: V: T:</p> <p>Compliance with regulations (Clause 7).</p>	Item		
7	<p>F: V: T:</p> <p>Works risk (Clause 8)</p>	Item		
8	<p>F: V: T:</p> <p>Indemnities (Clause 9).</p> <p>Clause 9.1.1 is deleted and substituted with:</p>	Item		
Carried to Collection			R	
Section 2 Bill No. 1 Preliminaries NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS				

	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'.			
9	F: V: T: Works insurances (Clause 10).	Item		
10	F: V: T: Liability insurances (Clause 11).	Item		
11	F: V: T: Effecting insurances (Clause 12).	Item		
12	F: V: T: State Provisions (Clause 13).	Item		
13	F: V: T: Security (Clause 14).	Item		
14	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
15	F: V: T: Access to the works (Clause 16).	Item		
16	F: V: T: Contract instructions (Clause 17).	Item		
17	F: V: T: Setting out of the works (Clause 18.3).	Item		
Carried to Collection			R	
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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.

18 F: V: T:

Item

Assignment (Clause 19).

19 F: V: T:

Item

Nominated subcontractors (Clause 20).

20 F: V: T:

Item

Selected subcontractors (Clause 21).

21 F: V: T:

Item

Employer's Direct contractors (Clause 22).

22 F: V: T:

Item

Contractor's Domestic subcontractors (Clause 23).

23 F: V: T:

Item

COMPLETION

Practical completion (Clause 24).

24 F: V: T:

Item

Works completion (Clause 25).

25 F: V: T:

Item

Final completion (Clause 26).

Latent defects liability period (Clause 27).

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Clause 27.0 is amended by the addition of the following clauses:

"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".

"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"

26	F: V: T: Sectional completion (Clause 28).	Item
27	F: V: T: Revision of date for practical completion (Clause 29).	Item
28	F: V: T: Penalty for non-completion (Clause 30).	Item
29	F: V: T:	Item

PAYMENT

Interim payment to the contractor (Clause 31).

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.

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

Adjustment to the contract value (Clause 32).

30 F: V: T: Item

Recovery of expense and loss (Clause 33).

31 F: V: T: Item

Final account and final payment (Clause 34).

32 F: V: T: Item

Payment to other parties (Clause 35).

33 F: V: T: Item

CANCELLATION

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

34 F: V: T: Item

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

35 F: V: T: Item

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

36 F: V: T: Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T: Item

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

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

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

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To be advised.

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

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

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

Clause 42.3.2

Supplementary insurance is required : Yes

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

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

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

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DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

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

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

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

Clause 42.4.4

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

Clause 42.4.5

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

Clause 42.4.6

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

SECTION B: PRELIMINARIES**DEFINITIONS AND INTERPRETATION (B1)**

Definitions and Interpretation (B1)

41 F: V: T:

Item

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:

Item

Provisional Bills of Quantities (B2.2) YES

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

43 F: V: T:

Item

Availability of construction documentation (B2.3)

44 F: V: T:

Item

Interests of Agents (B2.4)

45 F: V: T:

Item

Priced documents (B2.5)

46 F: V: T:

Item

Tender submission (B2.6)

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

47 F: V: T:

Item

THE SITE (B3)

Defined works area (B3.1)

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

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

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

48	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item
49	F: V: T: Inspection of the Site (B3.3)	Item
50	F: V: T: Existing premises occupied (B3.4)	Item
51	F: V: T: Previous work - dimensional accuracy (B3.5)	Item
52	F: V: T: Previous work - defects (B3.6)	Item
53	F: V: T: Services - known (B3.7)	Item
54	F: V: T: Services - unknown (B3.8)	Item
55	F: V: T: Protection of trees (B3.9)	Item

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56	F: V: T: Articles of value (B3.10)	Item		
57	F: V: T: Inspection of adjoining properties (B3.11)	Item		
58	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item		
59	F: V: T: Programme for the Works (B4.2)	Item		
60	F: V: T: Progress meetings (B4.3)	Item		
61	F: V: T: Technical meetings (B4.4)	Item		
62	F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item		
63	F: V: T: Workmanship samples (B5.2)	Item		
64	F: V: T: Shop drawings (B5.3)	Item		
65	F: V: T: <u>TEMPORARY WORKS AND PLANT (B6)</u> Deposits and fees (B6.1)	Item		
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66	F: V: T: Enclosure of the works (B6.2) The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.	Item		
67	F: V: T: Advertising (B6.3)	Item		
68	F: V: T: Plant and equipment (B6.4)	Item		
69	F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item		
70	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item		
71	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)			
72	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
73	F: V: T: Electricity (B7.3)	Item		
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74	<p>The contractor shall provide electricity for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> <p>F: V: T:</p> <p>Telecommunication equipment (B7.4)</p> <p>The contractor shall provide telephones on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p>	Item		
75	<p>F: V: T:</p> <p>Ablution facilities (B7.5)</p> <p>The contractor shall provide toilet facilities on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p>	Item		
76	<p>F: V: T:</p> <p><u>PRIME COST AMOUNTS (B8)</u></p> <p>Responsibility for prime cost amounts (B8.1)</p>	Item		
77	<p>F: V: T:</p> <p><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></p> <p>General Attendance (B9.1)</p>	Item		
78	<p>F: V: T:</p> <p>Special Attendance (B9.2)</p>	Item		
79	<p>F: V: T:</p> <p>Commissioning - fuel, water and power (B9.3)</p>	Item		
80	<p>F: V: T:</p>	Item		
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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).

81 F: V: T: Item

Payment of Preliminaries (B10.2)

82 F: V: T: Item

Adjustment of Preliminaries (B10.3)

83 F: V: T: Item

Payment certificate cash flow (B10.4)

84 F: V: T: Item

Contractor information supply (B10.5)

85 F: V: T: Item

GENERAL (B11)

Protection of the Works (B11.1)

86 F: V: T: Item

Protection/isolation of existing/sectionally occupied works (B11.2)

87 F: V: T: Item

Site security (B11.3)

88 F: V: T: Item

Notice before covering work (B11.4)

89 F: V: T: Item

Disturbance (B11.5)

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C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

C4. Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

97 F: V: T:

Item

C5. As built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

98 F: V: T:

Item

C6. Construction Instructions

Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:

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	<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> <p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p>			
99	<p>F: V: T:</p> <p>C7. Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>	Item		
100	<p>F: V: T:</p> <p>C8. Plant record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>	Item		
101	<p>F: V: T:</p> <p>C9. Encroachment</p>	Item		
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	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.			
102	F: V: T: C10. Method Statement 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.	Item		
103	F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item		
104	F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.	Item		
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	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.			
105	F: V: T: 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.	Item		
106	F: V: T: <u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T:	Item		
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Item No		Quantity	Rate	Amount
	<u>SECTION No. 2</u>			
	<u>BILL No. 2</u>			
	<u>HEALTH AND SAFETY</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.			
	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
	Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
	The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
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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 all personnel.	No	1
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	200
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1

Provision for Personal Protective Equipment and Protective Clothing:

10	Reflective vests.	No	20
11	Hard hats.	No	20
12	Protective foot wear.	No	20
13	Ear Plugs.	No	100

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Health and Safety

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Health and Safety

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MODEL PREAMBLES

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

SUPPLEMENTARY PREAMBLES**Trade Names**

Where trade names are specified it will read "or equal approved"

Epoxy paint

The product and its methodology for application must be approved by Principal Agent before it is used.

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

Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.

ON PVC VENT PIPE**Prepare and apply two coats black PVA paint:**

10	Vent Pipes	m2	13
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Section 2

Bill No. 3

Sundry Builders Work

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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Section 2

Bill No. 3

Sundry Builders Work

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Bill No. 3

Sundry Builders Work

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	<u>SECTION No. 2</u>			
	<u>BILL No. 4</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches.	m3	26	
	<u>Extra over all excavations for carting away:</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	19	
	<u>Risk of collapse of excavations:</u>			
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	105	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
4	Backfilling to trenches, holes, etc.	m3	12	
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>			
5	Under footings.	m3	6	
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	External Works			
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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 (Cement to be 42.5N all-purpose cement):

14	One brickwall faced on both sides.	m2	105
----	------------------------------------	----	-----

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

15	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	75
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STORMWATER CHANNELS

Excavation not exceeding 2m deep

16	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	18
----	--	----	----

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

17	Off site to a dumping site to be found by the Contractor.	m3	18
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Filling supplied by the contractor under channels

18	G7 Base course material compacted to 98% Mod AASHTO density	m3	9
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19	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	9
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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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	<u>Excavation not exceeding 2m deep</u>				
29	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	9		
	<u>Extra over bulk excavations in earth for breaking up and removingh4</u>				
30	Brickwork	m3	4		
31	Unreinforced concrete	m3	2		
32	Reinforced concrete	m3	3		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
33	Off site to a dumping site to be found by the Contractor.	m3	3		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
34	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
35	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2		
	<u>Coarse river sand filling supplied by the contractor:</u>				
36	Under floors etc.	m3	1		
	<u>Compaction of surfaces:</u>				
37	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	17		
	<u>Prescribed density tests on filling:</u>				
38	In-situ dry density test.	No	4		
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	<u>Reinforced 25Mpa/19mm Concrete:</u>				
39	Ramps, Landings, etc.	m3	2		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
40	Surface beds, slabs, etc to falls and currents.	m2	17		
	<u>Test blocks:</u>				
41	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
42	12mm Joints not exceeding 300mm high.	m	14		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
43	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	14		
	<u>Fabric reinforcement:</u>				
44	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	17		
	<u>Waterproofing under Surface beds</u>				
45	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	17		
	<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>				
	<u>Excavation not exceeding 2m deep</u>				
46	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	27		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
47	Off site to a dumping site to be found by the Contractor.	m3	21		
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	<u>Filling supplied by the contractor under driveways</u>				
48	G7 Base course material compacted to 98% Mod AASHTO density	m3	18		
49	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>				
50	Under floors,etc.	m2	60		
	<u>Prescribed density tests on filling:</u>				
51	In-situ dry density test.	No	4		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
52	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	60		
	<u>150-175mm diameter bollards</u>				
53	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	26		
	<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
	<u>STORMWATER APRONS</u>				
	<u>Excavation not exceeding 2m deep</u>				
54	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	27		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
55	Off site to a dumping site to be found by the Contractor.	m3	27		
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	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
56	G7 Base course material compacted to 98% Mod AASHTO density	m3	13		
57	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	13		
	<u>Coarse river sand filling supplied by the contractor:</u>				
58	Under floors etc.	m3	4		
	<u>Compaction of surfaces:</u>				
59	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	90		
	<u>Prescribed density tests on filling:</u>				
60	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
61	Surface beds cast in panels on waterproofing.	m3	9		
62	Edge thickening	m3	4		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
63	Surface beds, slabs, etc to falls and currents.	m2	90		
	<u>Test blocks:</u>				
64	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
65	12mm Joints not exceeding 300mm high.	m	75		
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	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
66	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	75		
	<u>Fabric reinforcement:</u>				
67	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	90		
	<u>Waterproofing under Surface beds</u>				
68	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	90		
	<u>STORMWATER CHANNELS</u>				
	<u>Excavation not exceeding 2m deep</u>				
69	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	16		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
70	Off site to a dumping site to be found by the Contractor.	m3	16		
	<u>Filling supplied by the contractor under channels</u>				
71	G7 Base course material compacted to 98% Mod AASHTO density	m3	8		
72	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	8		
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	Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.				
73	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	75		
74	Extra for 700mm angle	No	6		
75	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	1		
	<u>Sundries:</u>				
76	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	38		
77	Construct shaped earth V-drain 2m wide with grass runners	m	13		
	<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>				
	<u>Site Clearance, ETC</u>				
78	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	224		
	<u>Excavation in earth not exceeding 2m deep:</u>				
79	Trenches.	m3	800		
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	<u>Extra over all excavations for carting away:</u>				
80	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	90		
	<u>Risk of collapse of excavations:</u>				
81	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	960		
82	Ditto, but from ground level to exceeding 1,5m.	m2	640		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
83	Backfilling to trenches, holes, etc.	m3	643		
	<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>				
84	19mm Stone.	m3	38		
	<u>Membrane</u>				
85	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	480		
	<u>Keeping excavations free of water:</u>				
86	Keeping excavations free from mud and all water including subterranean sources.		Item		
	<u>Compaction of surfaces</u>				
87	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	224		
	<u>SOIL DRAINAGE</u>				

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	<u>160mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>				
88	160mm uPVC pipe.	m	320		
	<u>Extra for:</u>				
89	160mm Tee.	No	2		
90	160mm Bend.	No	1		
	<u>THE FOLLOWING IN SOAKAWAY</u>				
	<u>Site Clearance, Etc</u>				
91	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	2		
	<u>Excavation in earth not exceeding 2m deep:</u>				
92	Holes	m3	2		
	<u>Extra over all excavations for carting away</u>				
93	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	2		
	<u>Risk of collapse of excavations</u>				
94	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	2		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
95	Backfilling to holes	m3	2		
	<u>Earth filling with stone material supplied by the contractor:</u>				
96	Stone (>53mm).	m2	2		
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	<u>Membranes</u>				
97	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	2		
	<u>Keeping excavations free of water</u>				
98	Keeping excavations free of all water other than subterranean water		Item		
	<u>THE FOLLOWING IN CULVERTS</u>				
	<u>Class 50D concrete pipes:</u>				
99	450mm Diameter Concrete pipe laid in trenches not exceeding 1m deep including excavation, backfill, bedding, cart away and compaction.	m	2		
	<u>Manholes:</u>				
	<u>THE FOLLOWING IN HEADWALLS</u>				
100	Excavation not exceeding 2m deep.	m3	3		
101	Risk of collapse not exceeding 1,5m deep	m2	2		
102	Keeping excavations free from water		Item		
103	Carting away surplus excavated material	m3	0.3		
104	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
105	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
106	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	1		
107	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	5		
108	Weld Mesh Ref 193 in Concrete bottom slab.	m2	5		
109	One brick wall of 14 MPa NFX bricks.	m2	2		
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110	230mm Wide reinforcement built in horizontally.	m	10
111	Plaster on brick walls.	m2	2
112	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	2
<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>			
<u>Site clearance</u>			
113	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	65
<u>Straining wires, fencing and razor wire:</u>			
114	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	260
115	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	195
116	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	65
<u>Posts for 1 800mm high security fence:</u>			
117	60mm Diameter galvanised steel intermediate fencing post 2400mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	26

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118	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	2		
119	150mm Ditto as gate post 2 400mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	2		
120	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	8		
121	Form 12mm diameter hole through fence post.	No	8		
	<u>Gates:</u>				
122	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
	<u>PADLOCKS</u>				
123	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	1		
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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.

SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

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Section 3

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2	<p>F: V: T:</p> <p>Documents (Clause 3).</p> <p>Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'</p> <p>Clause 3.3 is deleted and substituted with:</p> <p>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'.</p>	Item		
3	<p>F: V: T:</p> <p>Design responsibility (Clause 4).</p>	Item		
4	<p>F: V: T:</p> <p>Employer's agents (Clause 5).</p>	Item		
5	<p>F: V: T:</p> <p>Site representative (Clause 6).</p>	Item		
6	<p>F: V: T:</p> <p>Compliance with regulations (Clause 7).</p>	Item		
7	<p>F: V: T:</p> <p>Works risk (Clause 8)</p>	Item		
8	<p>F: V: T:</p> <p>Indemnities (Clause 9).</p> <p>Clause 9.1.1 is deleted and substituted with:</p>	Item		
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	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'.			
9	F: V: T: Works insurances (Clause 10).	Item		
10	F: V: T: Liability insurances (Clause 11).	Item		
11	F: V: T: Effecting insurances (Clause 12).	Item		
12	F: V: T: State Provisions (Clause 13).	Item		
13	F: V: T: Security (Clause 14).	Item		
14	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
15	F: V: T: Access to the works (Clause 16).	Item		
16	F: V: T: Contract instructions (Clause 17).	Item		
17	F: V: T: Setting out of the works (Clause 18.3).	Item		
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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.

18 F: V: T:

Item

Assignment (Clause 19).

19 F: V: T:

Item

Nominated subcontractors (Clause 20).

20 F: V: T:

Item

Selected subcontractors (Clause 21).

21 F: V: T:

Item

Employer's Direct contractors (Clause 22).

22 F: V: T:

Item

Contractor's Domestic subcontractors (Clause 23).

23 F: V: T:

Item

COMPLETION

Practical completion (Clause 24).

24 F: V: T:

Item

Works completion (Clause 25).

25 F: V: T:

Item

Final completion (Clause 26).

Latent defects liability period (Clause 27).

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Clause 27.0 is amended by the addition of the following clauses:

"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".

"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"

26	F: V: T: Sectional completion (Clause 28).	Item
27	F: V: T: Revision of date for practical completion (Clause 29).	Item
28	F: V: T: Penalty for non-completion (Clause 30).	Item
29	F: V: T:	Item

PAYMENT

Interim payment to the contractor (Clause 31).

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.

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

Adjustment to the contract value (Clause 32).

30 F: V: T: Item

Recovery of expense and loss (Clause 33).

31 F: V: T: Item

Final account and final payment (Clause 34).

32 F: V: T: Item

Payment to other parties (Clause 35).

33 F: V: T: Item

CANCELLATION

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

34 F: V: T: Item

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

35 F: V: T: Item

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

36 F: V: T: Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T: Item

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

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

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

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

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

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To be advised.

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

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

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

Clause 42.3.2

Supplementary insurance is required : Yes

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

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

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

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DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

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

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

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

Clause 42.4.4

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

Clause 42.4.5

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

Clause 42.4.6

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

SECTION B: PRELIMINARIES**DEFINITIONS AND INTERPRETATION (B1)**

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

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	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
42	F: V: T: Provisional Bills of Quantities (B2.2) YES Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.	Item		
43	F: V: T: Availability of construction documentation (B2.3)	Item		
44	F: V: T: Interests of Agents (B2.4)	Item		
45	F: V: T: Priced documents (B2.5)	Item		
46	F: V: T: Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.	Item		
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1)	Item		
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The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.

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

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

48	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item
49	F: V: T: Inspection of the Site (B3.3)	Item
50	F: V: T: Existing premises occupied (B3.4)	Item
51	F: V: T: Previous work - dimensional accuracy (B3.5)	Item
52	F: V: T: Previous work - defects (B3.6)	Item
53	F: V: T: Services - known (B3.7)	Item
54	F: V: T: Services - unknown (B3.8)	Item
55	F: V: T: Protection of trees (B3.9)	Item

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56	F: V: T: Articles of value (B3.10)	Item		
57	F: V: T: Inspection of adjoining properties (B3.11)	Item		
58	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item		
59	F: V: T: Programme for the Works (B4.2)	Item		
60	F: V: T: Progress meetings (B4.3)	Item		
61	F: V: T: Technical meetings (B4.4)	Item		
62	F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item		
63	F: V: T: Workmanship samples (B5.2)	Item		
64	F: V: T: Shop drawings (B5.3)	Item		
65	F: V: T: <u>TEMPORARY WORKS AND PLANT (B6)</u> Deposits and fees (B6.1)	Item		
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66	F: V: T: Enclosure of the works (B6.2) The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.	Item		
67	F: V: T: Advertising (B6.3)	Item		
68	F: V: T: Plant and equipment (B6.4)	Item		
69	F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item		
70	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item		
71	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)			
72	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
73	F: V: T: Electricity (B7.3)	Item		
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	<p>The contractor shall provide electricity for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> <p>74 F: V: T:</p> <p>Telecommunication equipment (B7.4)</p> <p>The contractor shall provide telephones on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> <p>75 F: V: T:</p> <p>Ablution facilities (B7.5)</p> <p>The contractor shall provide toilet facilities on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> <p>76 F: V: T:</p> <p><u>PRIME COST AMOUNTS (B8)</u></p> <p>Responsibility for prime cost amounts (B8.1)</p> <p>77 F: V: T:</p> <p><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></p> <p>General Attendance (B9.1)</p> <p>78 F: V: T:</p> <p>Special Attendance (B9.2)</p> <p>79 F: V: T:</p> <p>Commissioning - fuel, water and power (B9.3)</p> <p>80 F: V: T:</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>		
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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).

81 F: V: T: Item

Payment of Preliminaries (B10.2)

82 F: V: T: Item

Adjustment of Preliminaries (B10.3)

83 F: V: T: Item

Payment certificate cash flow (B10.4)

84 F: V: T: Item

Contractor information supply (B10.5)

85 F: V: T: Item

GENERAL (B11)

Protection of the Works (B11.1)

86 F: V: T: Item

Protection/isolation of existing/sectionally occupied works (B11.2)

87 F: V: T: Item

Site security (B11.3)

88 F: V: T: Item

Notice before covering work (B11.4)

89 F: V: T: Item

Disturbance (B11.5)

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C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

C4. Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

97 F: V: T:

Item

C5. As built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

98 F: V: T:

Item

C6. Construction Instructions

Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:

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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

	<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> <p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p>			
99	<p>F: V: T:</p> <p>C7. Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>	Item		
100	<p>F: V: T:</p> <p>C8. Plant record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>	Item		
101	<p>F: V: T:</p> <p>C9. Encroachment</p>	Item		
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	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.			
102	F: V: T: C10. Method Statement 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.	Item		
103	F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item		
104	F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.	Item		
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	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.			
105	F: V: T: 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.	Item		
106	F: V: T: <u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T:	Item		
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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3</u>			
	<u>BILL No. 2</u>			
	<u>HEALTH AND SAFETY</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.			
	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
	Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
	The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
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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 all personnel.	No	1
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	200
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1

Provision for Personal Protective Equipment and Protective Clothing:

10	Reflective vests.	No	20
11	Hard hats.	No	20
12	Protective foot wear.	No	20
13	Ear Plugs.	No	100

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Health and Safety

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Bill No. 2

Health and Safety

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Removal of asbestos material

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

The following shall apply in respect of asbestos removal

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

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

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

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

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

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Section 3
Bill No. 3
Demolitions

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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DEMOLISHING AND REMOVING

1	Demolish pit latrine structure comprising of brick/block work with corrugated roof sheeting, approximate size 13 x 4m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	2
2	Cart away rubble from demolitions and dispose off site.		Item
3	Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density.	m3	208
4	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	4
5	Provision of a certificate of safe disposal for asbestos.		Item

SUNDRIES**Desludging**

6	Clean out pit latrine by desludging including removal of all debris and waste including solid 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
7	Issue of Certificate of Waste Disposal.		Item

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NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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Demolitions

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MODEL PREAMBLES

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

SUPPLEMENTARY PREAMBLES**Trade Names**

Where trade names are specified it will read "or equal approved"

Epoxy paint

The product and its methodology for application must be approved by Principal Agent before it is used.

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

Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.

ON PVC VENT PIPE**Prepare and apply two coats black PVA paint:**

10	Vent Pipes	m2	18
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Section 3

Bill No. 4

Sundry Builders Work

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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Section 3

Bill No. 4

Sundry Builders Work

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Bill No. 4

Sundry Builders Work

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

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	<u>SECTION No. 3</u>			
	<u>BILL No. 5</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches.	m3	32	
	<u>Extra over all excavations for carting away:</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	23	
	<u>Risk of collapse of excavations:</u>			
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	127	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
4	Backfilling to trenches, holes, etc.	m3	15	
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>			
5	Under footings.	m3	7	
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	Bill No. 5			
	External Works			
	NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS			

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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 (Cement to be 42.5N all-purpose cement):

14	One brickwall faced on both sides.	m2	127
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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:

15	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	91
----	---	---	----

STORMWATER CHANNELS

Excavation not exceeding 2m deep

16	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	22
----	--	----	----

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

17	Off site to a dumping site to be found by the Contractor.	m3	22
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Filling supplied by the contractor under channels

18	G7 Base course material compacted to 98% Mod AASHTO density	m3	11
----	---	----	----

19	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	11
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Section 3

Bill No. 5

External Works

NKENTE JSS, KENTANI JSS & QOBO - QOBO JSS

	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.				
20	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	91		
21	Extra for 700mm angle	No	14		
22	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	3		
<u>THE FOLLOWING IN DISABLED ACCESS</u>					
<u>ACCESS RAMPS</u>					
<u>Excavation not exceeding 2m deep</u>					
23	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	6		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
24	Off site to a dumping site to be found by the Contractor.	m3	1		
<u>Filling supplied by the contractor under floors, aprons, etc</u>					
25	G7 Base course material compacted to 98% Mod AASHTO density	m3	1		
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26	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	1		
	<u>Coarse river sand filling supplied by the contractor:</u>				
27	Under floors etc.	m3	0.2		
	<u>Compaction of surfaces:</u>				
28	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	5		
	<u>Prescribed density tests on filling:</u>				
29	In-situ dry density test.	No	2		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
30	Ramps, Landings, etc.	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
31	Surface beds, slabs, etc to falls and currents.	m2	8		
	<u>Test blocks:</u>				
32	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
33	12mm Joints not exceeding 300mm high.	m	5		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
34	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	5		
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	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
43	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	84		
	<u>150-175mm diameter bollards</u>				
44	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	33		
	<u>THE FOLLOWING IN RETAINING WALLS, ETC.</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
45	Trenches.	m3	15		
	<u>Risk of collapse of excavations:</u>				
46	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	50		
	<u>Keeping excavations free of water:</u>				
47	Keeping excavations free of all water other than subterranean water.			Item	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
48	Off site to a dumping site to be found by the Contractor.	m3	4		
	<u>Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
49	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	10		
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	<u>Compaction of surfaces</u>				
50	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	17		
	<u>15Mpa/19mm Concrete</u>				
51	Surface blinding under footings and bases.	m3	1		
	<u>30Mpa/19mm Concrete</u>				
52	Strip footings.	m3	4		
	<u>Test blocks:</u>				
53	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Fabric reinforcement:</u>				
54	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	17		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
55	330mm thick cavity brick Walls made of two leafs of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured).	m2	34		
	<u>Brickwork reinforcement:</u>				
56	230mm Wide reinforcement built in horizontally.	m	280		
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
57	Extra over brickwork for face brickwork externally.	m2	31		
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	<u>Brick-on-edge header course copings, sills, etc. of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>				
58	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	28		
	<u>Openings in Walls etc.</u>				
59	Leave or form 32mm weephole through one brick wall	No	28		
	<u>Membranes</u>				
60	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	34		
	<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>				
61	19mm Stone.	m3	3		
	<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
	<u>STORMWATER APRONS</u>				
	<u>Excavation not exceeding 2m deep</u>				
62	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	22		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
63	Off site to a dumping site to be found by the Contractor.	m3	22		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
64	G7 Base course material compacted to 98% Mod AASHTO density	m3	11		
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65	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	11		
	<u>Coarse river sand filling supplied by the contractor:</u>				
66	Under floors etc.	m3	11		
	<u>Compaction of surfaces:</u>				
67	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	73		
	<u>Prescribed density tests on filling:</u>				
68	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
69	Surface beds cast in panels on waterproofing.	m3	11		
70	Edge thickening	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
71	Surface beds, slabs, etc to falls and currents.	m2	73		
	<u>Test blocks:</u>				
72	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
73	12mm Joints not exceeding 300mm high.	m	61		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
74	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	61		
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	<u>Fabric reinforcement:</u>				
75	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	73		
	<u>Waterproofing under Surface beds</u>				
76	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	73		
	<u>STORMWATER CHANNELS</u>				
	<u>Excavation not exceeding 2m deep</u>				
77	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	13		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
78	Off site to a dumping site to be found by the Contractor.	m3	13		
	<u>Filling supplied by the contractor under channels</u>				
79	G7 Base course material compacted to 98% Mod AASHTO density	m3	6		
80	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	6		
	<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>				
81	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	61		
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82	Extra for 700mm angle	No	15
83	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	3
<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>			
<u>Site Clearance, ETC</u>			
84	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	162
<u>Excavation in earth not exceeding 2m deep:</u>			
85	Trenches.	m3	580
<u>Extra over all excavations for carting away:</u>			
86	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	65
<u>Risk of collapse of excavations:</u>			
87	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	696
88	Ditto, but from ground level to exceeding 1,5m.	m2	464
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
89	Backfilling to trenches, holes, etc.	m3	466
<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>			
90	19mm Stone.	m3	28

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	<u>Extra over all excavations for carting away</u>				
99	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	1		
	<u>Risk of collapse of excavations</u>				
100	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	12		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
101	Backfilling to holes	m3	2		
	<u>Earth filling with stone material supplied by the contractor:</u>				
102	Stone (>53mm).	m2	1		
	<u>Membranes</u>				
103	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	12		
	<u>Keeping excavations free of water</u>				
104	Keeping excavations free of all water other than subterranean water		Item		
	<u>THE FOLLOWING IN CULVERTS</u>				
	<u>Class 50D concrete pipes:</u>				
105	450mm Diameter Concrete pipe laid in trenches not exceeding 1m deep including excavation, backfill, bedding, cart away and compaction.	m	1		
	<u>THE FOLLOWING IN HEADWALLS</u>				
106	Excavation not exceeding 2m deep.	m3	3		
107	Risk of collapse not exceeding 1,5m deep	m2	2		
108	Keeping excavations free from water		Item		
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109	Carting away surplus excavated material	m3	0.3		
110	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
111	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
112	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	1		
113	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	5		
114	Weld Mesh Ref 193 in Concrete bottom slab.	m2	5		
115	One brick wall of 14 MPa NFX bricks.	m2	2		
116	230mm Wide reinforcement built in horizontally.	m	13		
117	Plaster on brick walls.	m2	2		
118	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	2		
<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>					
<u>Site clearance</u>					
119	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	75		
<u>Straining wires, fencing and razor wire:</u>					
120	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	300		
121	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	225		
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THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE

122	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	75		
	<u>Posts for 1 800mm high security fence:</u>				
123	60mm Diameter galvanised steel intermediate fencing post 2400mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	30		
124	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		
125	150mm Ditto as gate post 2 400mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	4		
126	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	4		
127	Form 12mm diameter hole through fence post.	No	4		
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