

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

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

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

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

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SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'

Clause 3.3 is deleted and substituted with:

The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

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Compliance with regulations (Clause 7).

7 F: V: T:

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	Works risk (Clause 8)			
1	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		
2	F: V: T: Works insurances (Clause 10).	Item		
3	F: V: T: Liability insurances (Clause 11).	Item		
4	F: V: T: Effecting insurances (Clause 12).	Item		
5	F: V: T: State Provisions (Clause 13).	Item		
6	F: V: T: Security (Clause 14).	Item		
7	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
8	F: V: T: Access to the works (Clause 16).	Item		
9	F: V: T:	Item		
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	Contract instructions (Clause 17).			
1	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		
2	F: V: T: Assignment (Clause 19).	Item		
3	F: V: T: Nominated subcontractors (Clause 20).	Item		
4	F: V: T: Selected subcontractors (Clause 21).	Item		
5	F: V: T: Employer's Direct contractors (Clause 22).	Item		
6	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
7	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).	Item		
8	F: V: T: Works completion (Clause 25).	Item		
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1	F: V: T: Final completion (Clause 26). Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"	Item		
2	F: V: T: Sectional completion (Clause 28).	Item		
3	F: V: T: Revision of date for practical completion (Clause 29).	Item		
4	F: V: T: Penalty for non-completion (Clause 30).	Item		
5	F: V: T: <u>PAYMENT</u> 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.	Item		
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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

1 F: V: T:

Item

Recovery of expense and loss (Clause 33).

2 F: V: T:

Item

Final account and final payment (Clause 34).

3 F: V: T:

Item

Payment to other parties (Clause 35).

4 F: V: T:

Item

CANCELLATION

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

5 F: V: T:

Item

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

6 F: V: T:

Item

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

7 F: V: T:

Item

Cancellation - Cessation of the works (Clause 39).

8 F: V: T:

Item

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DISPUTE

Dispute Settlement (Clause 40)

1 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

2 F: V: T:

Item

CONTRACT VARIABLES

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

3 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

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To be advised.

Penalty amount will be 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)

1 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.				
1	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			
2	F: V: T: Availability of construction documentation (B2.3)	Item			
3	F: V: T: Interests of Agents (B2.4)	Item			
4	F: V: T: Priced documents (B2.5)	Item			
5	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			
6	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.

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

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1	F: V: T: Articles of value (B3.10)	Item		
2	F: V: T: Inspection of adjoining properties (B3.11)	Item		
3	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item		
4	F: V: T: Programme for the Works (B4.2)	Item		
5	F: V: T: Progress meetings (B4.3)	Item		
6	F: V: T: Technical meetings (B4.4)	Item		
7	F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item		
8	F: V: T: Workmanship samples (B5.2)	Item		
9	F: V: T: Shop drawings (B5.3)	Item		
10	F: V: T: <u>TEMPORARY WORKS AND PLANT (B6)</u> Deposits and fees (B6.1)	Item		
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1	Plant and equipment (B6.4) F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item		
2	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item		
3	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)			
4	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
5	F: V: T: Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
6	F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
7	F: V: T:	Item		
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	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
1	F: V: T:	Item		
	<u>PRIME COST AMOUNTS (B8)</u>			
	Responsibility for prime cost amounts (B8.1)			
2	F: V: T:	Item		
	<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>			
	General Attendance (B9.1)			
3	F: V: T:	Item		
	Special Attendance (B9.2)			
4	F: V: T:	Item		
	Commissioning - fuel, water and power (B9.3)			
5	F: V: T:	Item		
	<u>FINANCIAL ASPECTS (B10)</u>			
	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).			
6	F: V: T:	Item		
	Payment of Preliminaries (B10.2)			
7	F: V: T:	Item		
	Adjustment of Preliminaries (B10.3)			
8	F: V: T:	Item		
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SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

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

1 F: V: T:

Item

C2. Trade Names, etc.

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

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

2 F: V: T:

Item

C3. Contractors responsibility

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

3 F: V: T:

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	C4. Overtime Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer. 1 F: V: T: C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion. 2 F: V: T: C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book:	Item Item		
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	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
1	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
2	F: V: T: C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.	Item		
3	F: V: T: C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item		
4	F: V: T: C10. Method Statement	Item		
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1	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		
	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.			
2	F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.	Item		
3	F: V: T:	Item		
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C13. Location of Temporary Buildings and Temporary Services

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

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

1 F: V: T:

Item

C14. Office accommodation

The contractor shall provide, maintain and remove on practical completion air conditioned lockable office accommodation (minimum 4m x 3m) with concrete floor, minimum 2 windows, suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]

2 F: V: T:

Item

C15. Storage Facilities

3 The Contractor shall provide a lockable Container or Structure for storage of materials. The facility shall have a concrete or steel floor.

Item

4 F: V: T:

Item

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

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

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<u>BILL No. 2</u>			
<u>HEALTH AND SAFETY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>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.			
Carried to Collection		R	
Section No. 1 Bill No. 2 HEALTH AND SAFETY PROVISIONAL BILL OF QUANTITIES			

The costs included herein must incorporate Community Liaison Officer (CLO).

OCCUPATIONAL HEALTH AND SAFETY

General:

- 1 The Contractor shall allow for all costs associated with compliance with the Occupational Health and Safety Act (Act 85 of 1993), the Construction Regulations, 2014, and all other applicable statutory requirements, including but not limited to the preparation, implementation, and maintenance of a project-specific Health and Safety Plan; appointment of a competent Health and Safety Officer for the full duration of the project; provision of personal protective equipment (PPE) to all site personnel; conducting of baseline, periodic, and exit medical examinations; safety induction and training of all employees and visitors; preparation and submission of a compliant Health and Safety File at project close-out; and the establishment and maintenance of adequate site safety measures such as temporary fencing, signage, and first-aid facilities. The Contractor is to make provision for all obligations of the Principal Contractor as defined in the Construction Regulations, as well as for the employment and facilitation of a Community Liaison Officer (CLO), ensuring compliance with community participation requirements. All costs for compliance with the above, including risk assessments, safety audits, statutory appointments, reporting, and incident management, shall be deemed to be included in this item, and no additional claims will be entertained.

Item

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Section No. 1

Bill No. 2

HEALTH AND SAFETY

PROVISIONAL BILL OF QUANTITIES

Section No. 1

Bill No. 2

HEALTH AND SAFETY

COLLECTION

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Bill No. 2

HEALTH AND SAFETY

PROVISIONAL BILL OF QUANTITIES

**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Bill No	<u>SECTION SUMMARY - SECTION NO.1 - PRELIMINARIES</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	26	
2	HEALTH AND SAFETY	29	
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Section No. 1

PROVISIONAL BILL OF QUANTITIES

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

Carried to Collection

Section No. 2

Bill No. 1

DEMOLITIONS

PROVISIONAL BILL OF QUANTITIES

R

<u>REMOVAL OF EXISTING WORK</u>			
1	Allow for watering the works to prevent any nuisance from dust, etc. and supply, erect and remove on completion all temporary dust screens, etc. required.	Item	
2	Allow for protecting all existing work liable to suffer damage (i.e. Walls, finishes, floors, windows, etc.) from damage during the building operations, alterations, etc., and make good all work damaged with new material to match existing to the approval of the director.	Item	
3	Remove concrete ramp with brickwork on the sides overall size 8 x 1.5 x 1mm high, including foundations complete.	No	1
4	Remove existing steps with 3 risers and 3 threads, overall size 950 x 400mm high and make good to receive new stairs (elsewhere measured).	No	4
<u>Breaking up and removing unreinforced concrete</u>			
5	100mm Thick surface beds.	m2	1
6	100mm Thick concrete channels.	m	30
<u>Taking down and removing</u>			
7	Carefully take down and remove the existing mesh-wire fence and associated gates surrounding the 20 kℓ water tanks, including posts, stays, concrete bases, foundations, fittings and all related components. Remove and legally dispose of all resulting materials and debris off site, backfill and compact all post holes and excavations, and make good the affected surfaces, leaving the area level, clean and ready to receive the new fence measured elsewhere.	m	36
<u>Lift Paving and set aside for later re-use</u>			
8	Carefully take out paving, set aside for later re-use, compact disturbed areas, provide required materials, sand and re-lay paving to match existing level.	m2	187
Carried to Collection			R
Section No. 2 Bill No. 1 DEMOLITIONS PROVISIONAL BILL OF QUANTITIES			

**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>				
1	40mm Granolithic from floors.	m2	140		
	<u>DEMOLISHING AND REMOVING</u>				
2	Complete the demolition of the existing structure, approximately 7.65 x 4.45m, which has already been demolished to slab level. The works shall include breaking up and removing the entire floor slab, foundations, footings, ground beams, buried services and all other remaining structural elements. Remove and legally dispose of all demolition material and debris off site, backfill excavations with approved material, compact in layers, rehabilitate the affected area, and make good to match the surrounding ground conditions, complete.		Item		
	<u>Earth filling obtained from the excavations and / or prescribed stock piles on site (topsoil material) slightly compacted:</u>				
3	Over site and rehabilitation to demolished areas.	m3	25		
Carried to Collection					R
Section No. 2 Bill No. 1 DEMOLITIONS PROVISIONAL BILL OF QUANTITIES					

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Item No	Quantity	Rate	Amount
<u>BILL No. 2</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>CARPENTRY</u>			
<u>PLATE NAILED TIMBER ROOF CONSTRUCTION</u>			
<u>Fixing:</u>			
All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
<u>Erection certificates</u>			
1	Contractor is to supply a roof truss erection certificate for each of the buildings stating that the erection and installation of the roof trusses has been inspected and approved by a professional registered structural engineer.	No 5	
<u>Sundries:</u>			
2	Hurricane clip fixed to purlin and rafter.	No 135	
<u>JOINERY</u>			
<u>Doors, windows, sashes, etc.</u>			
Carried to Collection			R
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CARPENTRY AND JOINERY			
PROVISIONAL BILL OF QUANTITIES			

NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

<u>Wrot hardwood :</u> 44mm Thick framed, ledged, braced and battened door size 813 x 1375mm high, comprising 44 x 144mm stiles and top rail, 22 x 150mm middle rail, 22 x 230mm bottom rail and 2 No. 22 x 75mm diagonal braces and filled flush on one side between framing with 22mm thick tongued, grooved and V-jointed both sides vertical boarding in narrow matched widths and fitted with and including 44 x 70mm splayed and rebated weatherboard, countersunk brass screwed on at maximum 200mm centres.		No	5
<u>Frames, rails, skirtings, etc.</u> <u>Meranti timber door frames</u> <u>Note :</u> All units are to constructed using 70 x 108mm hardwood timber with 19 x 19mm quadrant bead to external face 70 x 108mm Rebated meranti jab linings fixed to walls.			
		m	12
Carried to Collection			
Section No. 3 Bill No. 2 CARPENTRY AND JOINERY PROVISIONAL BILL OF QUANTITIES			

NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

Item No		Quantity	Rate	Amount
BILL No. 3				
<u>IRONMONGERY</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>IRONMONGERY TO TIMBER DOORS, FRAMES, ETC.</u>				
<u>Hinges, bolts, etc.</u>				
1	100 x 75mm Heavy duty brass butt hinges.	No	14	
<u>Handles, furniture, etc.</u>				
2	"Dormakaba DPH301 B" or other equal approved 325 x 25mm Stainless steel straight tubular pull handle with flange fixing. (Sets)	No	28	
<u>Stops, holders, hooks, etc.</u>				
3	"Dormakaba DHC-SS-030A" or other equal approved stainless steel single hat and coat hook plugged to door.	No	19	
<u>IRONMONGERY FIXED TO CONCRETE, TILING, ETC.</u>				
<u>Stops, holders, hooks, etc.</u>				
4	38mm Black rubber door stop plugged to wall or floor.	No	20	
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Section No. 3 Bill No. 3 IRONMONGERY PROVISIONAL BILL OF QUANTITIES				

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NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<u>BILL No. 6</u>			
	<u>EXTERNAL WORKS</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>THE FOLLOWING IN WALKWAYS</u>			
	<u>EARTHWORKS</u>			
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>			
1	Reduced levels between buildings, retaining walls, etc.	m3	61	
	<u>Carting away of excavated material</u>			
2	Extra over all excavations for loading surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	61	
	<u>BASECOURSES</u>			
3	G7 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under pavings.	m3	31	
	<u>Sundries</u>			
4	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	204	
	<u>Prescribed Testing</u>			
5	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	4	
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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Weedkillers, insecticides, etc.

Soil insecticide in accordance with SANS 5859

1	Under paving, etc.	m2	204	
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PRECAST CONCRETE PAVERS

Grey interlocking precast concrete pavers type S-A laid in herringbone pattern with header course perimeter margin

2	Take from store and lay 50mm Thick laid on and including 25mm sand bed treated with weed killer and cement/sand mixture swept into joints on completion.	m2	204	
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Sundries

3	Circular cutting on 50mm thick non bevelled concrete pavers.	m	2	
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Channelling, kerbing, edging, etc.

Precast concrete kerbing

4	Precast semi-mountable concrete Fig 8B edge kerb size 300 x 175mm high cast in lengths not exceeding 1m and with expansion joints at not exceeding 10m centres finished smooth off the mould on all exposed surfaces bedded on and including minimum 50mm thick mass concrete 15 MPa base and backing including all necessary excavation, formwork, expansion joints, etc.	m	75	
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5	Ditto, but circular on plan to not exceeding 4m radius.	m	2	
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EXTERNAL WORKS

PROVISIONAL BILL OF QUANTITIES

THE FOLLOWING IN DISABLE RAMPS (ALL TRADES)

EXCAVATIONS FOR FOUNDATIONS, ETC. (Labour intensive)

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

1	Surface trenches.	m3	19	
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Carting away of excavated material

2	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	14	
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Risk of collapse of excavations

3	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	56	
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Keeping excavations free of water

4	Allow for keeping the excavations free from water.		Item	
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Filling

5	Earth filling from the excavations and/or stockpiles in backfilling to trenches, column bases, etc., compacted to 93% Mod AASHTO dry density.	m3	8	
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BASECOURSES

6	G7 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under pavings.	m3	5	
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7	G5 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under pavings.	m3	5	
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PROVISIONAL BILL OF QUANTITIES

**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Sundries</u>				
1	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	41		
	<u>Tests</u>				
2	Allow for Mod AASHTO density tests on filling.	No	6.00		
	<u>CONCRETE (Labour intensive)</u>				
	<u>Reinforced concrete 25MPa (19mm stone) in:</u>				
3	Strip foundations cast against excavated surfaces.	m3	6		
4	Ramps, landings, ect.	m3	4		
	<u>Surface treatment</u>				
5	Float surface of concrete to a wood float finish.	m2	31		
	<u>Test blocks and testing</u>				
6	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	No	6		
	<u>Movement joints</u>				
	<u>To horizontal surfaces</u>				
7	10mm Thick closed cell polyethylene joint forming material with hinged blocking piece, not exceeding 300mm wide, between concrete and concrete or brickwork surfaces.	m	45		
8	Remove hinged blocking piece and fill 10 x 10mm top surface cavity with "Sikaflex Pro2HP" or other equal approved two part polyurethane sealer.	m	45		
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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

REINFORCEMENT (PROVISIONAL)

High tensile welded steel mesh reinforcement :

1	Ref: 395 cast into concrete surfaces.	m2	41
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FOUNDATION BRICKWORK (PROVISIONAL)

Walls and linings in stock bricks in 5:1 cement mortar :

2	One brick wall.	m2	15
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Reinforcement to brickwork

3	Galvanised brick reinforcement 230mm wide built horizontally into brickwork.	m	86
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FACE BRICKWORK

"Rustgold FBS/Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints

4	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	8
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PROVISIONAL BILL OF QUANTITIES

SUPERSTRUCTURE BRICKWORK

Mass brickwork and piers in loadbearing brickwork (14MPa) in stock bricks in 5:1 cement mortar :

1	One brick wall.	m2	12	
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Reinforcement to brickwork

2	Galvanised brick reinforcement 230mm wide built horizontally into brickwork.	m	93	
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EXTERNAL FACE BRICKWORK

"Rustgold FBS/Qunu Travertine " or other equal approved FBX quality face bricks including jointing and square recess pointing 6 x 10mm joints

3	Extra over ordinary brickwork for facing and pointing in stretcher bond.	m2	18	
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Face brick copings, lintols, cills, etc.

4	Extra over brickwork for 230mm wide brick-on-edge header course coping including pointing to both faces and top.	m	36	
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SHEET WATERPROOFING

350 Micron orange polyethylene sheeting :

5	Laid under solid floor.	m2	33	
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THE FOLLOWING IN APRONS

EXCAVATIONS FOR FOUNDATIONS, ETC. (Labour intensive)

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

6	Reduced levels between buildings, retaining walls, etc.	m3	4	
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EXTERNAL WORKS

PROVISIONAL BILL OF QUANTITIES

**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

	<u>Carting away of excavated material</u>				
1	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	4		
	<u>BASECOURSES</u>				
2	G7 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under pavings.	m3	2		
3	G5 Base course material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under pavings.	m3	2		
	<u>Sundries</u>				
4	Rip reduced platform level and recompact to 93% Mod. A.A.S.H.T.O. density.	m2	14		
	<u>Tests</u>				
5	Allow for Mod AASHTO density tests on filling.	No	4.00		
	<u>Reinforced concrete 25MPa (19mm stone) in:</u>				
6	Surface beds cast in panels including temporary formwork.	m3	1		
	<u>Testing</u>				
7	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	Sets	3		
	<u>Surface treatment</u>				
8	Float surface of concrete to a wood float finish.	m2	14		
	<u>Edges, risers, ends and reveals</u>				
9	Edge, riser, etc exceeding 300mm high.	m	28		
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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

REINFORCEMENT (PROVISIONAL)

High tensile welded steel mesh reinforcement :

1	Ref: 395 cast into concrete surfaces.	m2	14	
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SHEET WATERPROOFING

350 Micron orange polyethylene sheeting :

2	Laid under solid floor.	m2	14	
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PROVISIONAL BILL OF QUANTITIES

THE FOLLOWING IN SECURITY FENCING

SECURITY FENCING

The Contractor is to allow in his rates for any site clearance, preparation of ground, etc. in order to carry out the work successfully.

"Clearvu" or equally approved fencing products to be executed in strict accordance with the Manufacturer's instructions

Fencing

1	High security galvanised, marine fusion bond coated, mesh fencing panel, size 3350 x 1800mm high fixed to posts (elsewhere).	No	11
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2	High security galvanised, marine fusion bond coated, mesh fencing panel, size 2300 x 1800mm high fixed to posts (elsewhere).	No	1
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Posts

3	Intermediate locking taper post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	11
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4	End or corner square post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	4
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5	Square gate post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap and gate mooring bracket including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	2
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EXTERNAL WORKS

PROVISIONAL BILL OF QUANTITIES

**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>Gates</u>					
1	Single gate, size 1000 x 1800mm high overall formed of square section perimeter framing, rails, etc. and the gate covered with high security galvanised, marine fusion bond coated, mesh including locking mechanism, hinges, drop bolts, etc. as per manufacturer's specifications.	No	1		
<u>Accessories</u>					
2	100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).	m	40		
3	"Union 3122" or other approved 51mm brass padlock with stainless steel shackle.	No	1		
<u>Sundries</u>					
4	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m3	0.1		
5	Extra over excavations in earth (concrete bases) for excavation in hard rock.	m3	0.1		
<u>THE FOLLOWING IN SECURITY FENCING, ETC (GRADE R)</u>					
<u>Site clearance</u>					
6	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	22		
<u>Straining wires, fencing and razor wire:</u>					
7	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	22		
8	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	22		
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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

1	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	22		
	<u>Posts for 1 800mm high security fence:</u>				
2	60mm Diameter galvanised steel intermediate fencing post 2 400mm 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	7		
3	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		
4	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	4		
5	Form 12mm diameter hole through fence post.	No	4		
	<u>Gates:</u>				
6	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		
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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Section No. 3

Bill No. 6

EXTERNAL WORKS

COLLECTION

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No**

Amount

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Section No. 3

Bill No. 6

EXTERNAL WORKS

PROVISIONAL BILL OF QUANTITIES

**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

<u>ALTERATIONS TO EXISTING</u>				
1	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of reducing fitting (elsewhere).	No	2	
<u>Pipes, pipe fittings, etc.</u>				
<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>				
2	40mm Pipe.	m	90	
3	50mm Pipe.	m	12	
4	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	10	
<u>Extra over uPVC pipes for the following fittings</u>				
5	40mm Bend.	No	27	
6	50mm Bend.	No	5	
7	40mm Tee junction.	No	2	
8	63 x 40mm Straight reducer	No	2	
<u>Taps, valves, etc.</u>				
9	40mm float valve kit fitted inside of tank.	No	3	
10	40mm In-line strainer.	No	2	
11	40mm Brass gate valve.	No	3	
12	40mm Brass non return valve.	No	1	
13	40mm Flanged resilient seal gate valve with cap top.	No	2	
14	40mm Flanged pressure reducing valve.	No	1	
<u>Switch</u>				
15	Float switch fitted inside of tank.	No	2	
<u>Connections</u>				
Carried to Collection				
Section No. 3				
Bill No. 7				
EXTERNAL PLUMBING AND DRAINAGE				
PROVISIONAL BILL OF QUANTITIES				

NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
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<u>Connection of new to existing pipes</u>				
1	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2	
2	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	2	
3	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1	
<u>Ties, cramps, etc.</u>				
4	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M10 bolt and nut.	No	3	
5	38 x 1,6mm Galvanised hoop iron tie down, 2500mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	12	
<u>Water supply valve or meter chambers</u>				
6	Excavate for and build valve chamber size 565 x 665 x 550mm deep overall formed of precast concrete valve chamber units 1, 2, 3 and 4 with valve box lid-V and 19mm thick layer of 19mm stone in bottom including filling in and ramming.	No	2	
<u>Pump and Pumphouse</u>				
7	Allow the Budgetary Allowance of R 15 000,00 (Fifteen Thousand Rand) for the installation of a 0.75kw water pump including housing, etc.		Item	15,000.00
<u>ELECTRICAL CONNECTION</u>				
<u>Elevated Tank Electrical Works</u>				
8	Allow the Budgetary Allowance of R 30 000,00 (Thirty Thousand Rand) for the electrical supply to the water pumps, float switches, ect.		Item	30,000.00
Carried to Collection				
Section No. 3				
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PROVISIONAL BILL OF QUANTITIES				

**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

**PROVISION OF TEMPORARY TOILETS DURING THE
CONSTRUCTION PERIOD**

Portable toilets

- | | | | |
|---|--|----|---|
| 1 | Supply and erecting of the portable chemical toilet for 3 weeks when the contractor is busy with the works inside the buildings. | No | 5 |
| 2 | Servicing and maintain the five portable chemical toilets on a weekly basis during duration of the contract. (No = week) | No | 3 |
| 3 | Removal of the portable chemical toilet on completion of the contract. | No | 5 |

Carried to Collection

R

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PROVISIONAL BILL OF QUANTITIES

Section No. 3

Bill No. 7

EXTERNAL PLUMBING AND DRAINAGE

COLLECTION

Amount

59

R

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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
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NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

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**NCAPAI JUNIOR SECONDARY SCHOOL - COMPLETION
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Section No	<u>FINAL SUMMARY</u>	Page No	Amount	
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	SUB-TOTAL		R	
	<u>CONTINGENCIES</u>			
	Allow five percent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R	
	SUB-TOTAL		R	
	Add Value Added Tax at the rate of 15%		R	
	Sub-Total		R	
	Carried to Form of Tender		R	
	PROVISIONAL BILL OF QUANTITIES			