

**COMPLETION OF MAQOMA PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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

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

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

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**SECTION A: PRINCIPAL BUILDING AGREEMENT**

**DEFINITIONS**

Definitions and interpretation (Clause 1).

1 F: ..... V: ..... T: .....

Item

**OBJECTIVE AND PREPARATION**

Offer, acceptance and performance (Clause 2).

2 F: ..... V: ..... T: .....

Item

Documents (Clause 3).

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

Clause 3.3 is deleted and substituted with:

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

3 F: ..... V: ..... T: .....

Item

Design responsibility (Clause 4).

4 F: ..... V: ..... T: .....

Item

Employer's agents (Clause 5).

5 F: ..... V: ..... T: .....

Item

Site representative (Clause 6).

6 F: ..... V: ..... T: .....

Item

Compliance with regulations (Clause 7).

7 F: ..... V: ..... T: .....

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	Works risk (Clause 8)			
8	F: ..... V: ..... T: .....	Item		
	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'.			
9	F: ..... V: ..... T: .....	Item		
	Works insurances (Clause 10).			
10	F: ..... V: ..... T: .....	Item		
	Liability insurances (Clause 11).			
11	F: ..... V: ..... T: .....	Item		
	Effecting insurances (Clause 12).			
12	F: ..... V: ..... T: .....	Item		
	State Provisions (Clause 13).			
13	F: ..... V: ..... T: .....	Item		
	Security (Clause 14).			
14	F: ..... V: ..... T: .....	Item		
	<b><u>EXECUTION</u></b>			
	Preparation for and execution of the works (Clause 15).			
15	F: ..... V: ..... T: .....	Item		
	Access to the works (Clause 16).			
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: .....  <b><u>COMPLETION</u></b>  Practical completion (Clause 24).			
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><b><u>PAYMENT</u></b></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: .....

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: ..... 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: ..... <b><u>MANAGEMENT OF CONTRACT (B4)</u></b> 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: ..... <b><u>SAMPLES AND SHOP DRAWINGS (B5)</u></b> 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: ..... <b><u>TEMPORARY WORKS AND PLANT (B6)</u></b> Deposits and fees (B6.1)	Item	
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69	Plant and equipment (B6.4) F: ..... V: ..... T: .....	Item		
	Main notice board (B6.5) One notice board shall be provided by the Contractor			
70	F: ..... V: ..... T: ..... Subcontractors notice board (B6.6) (N/A)	Item		
71	F: ..... V: ..... T: ..... <b><u>TEMPORARY SERVICES (B7)</u></b>	Item		
	Location (B7.1) 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) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
74	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		
75	F: ..... V: ..... T: .....	Item		
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	<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>			
76	<p>F: ..... V: ..... T: .....</p> <p><b><u>PRIME COST AMOUNTS (B8)</u></b></p> <p>Responsibility for prime cost amounts (B8.1)</p>	Item		
77	<p>F: ..... V: ..... T: .....</p> <p><b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b></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> <p><b><u>FINANCIAL ASPECTS (B10)</u></b></p> <p>Statutory taxes, duties and levies (B10.1)</p> <p>Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).</p>	Item		
81	<p>F: ..... V: ..... T: .....</p> <p>Payment of Preliminaries (B10.2)</p>	Item		
82	<p>F: ..... V: ..... T: .....</p> <p>Adjustment of Preliminaries (B10.3)</p>	Item		
83	<p>F: ..... V: ..... T: .....</p>	Item		
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	Payment certificate cash flow (B10.4)			
84	F: ..... V: ..... T: .....	Item		
	Contractor information supply (B10.5)			
85	F: ..... V: ..... T: .....	Item		
	<b><u>GENERAL (B11)</u></b>			
	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)			
90	F: ..... V: ..... T: .....	Item		
	Works cleaning and clearing (B11.6)			
91	F: ..... V: ..... T: .....	Item		
	Vermin (B11.7)			
92	F: ..... V: ..... T: .....	Item		
	Overhand work (B11.8)			
93	F: ..... V: ..... T: .....	Item		
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**SECTION C: SPECIFIC PRELIMINARIES**

**Section C: Specific Preliminaries:**

C1. Proprietary branded products

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

94 F: ..... V: ..... T: .....

Item

C2. Trade Names, etc.

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

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

95 F: ..... V: ..... T: .....

Item

C3. Contractors responsibility

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

96 F: ..... V: ..... T: .....

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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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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.

99 F: ..... V: ..... T: .....

Item

**C7. Labour record**

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

100 F: ..... V: ..... T: .....

Item

**C8. Plant record**

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

101 F: ..... V: ..... T: .....

Item

**C9. Encroachment**

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

102 F: ..... V: ..... T: .....

Item

**C10. Method Statement**

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103	<p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p> <p>F: ..... V: ..... T: .....</p> <p><b>C11. Unauthorised Persons/Workmen on Premises</b></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><b>C12. Mode of Procedure</b></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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106	<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> <p>F: ..... V: ..... T: .....</p>	Item	
	<p><b><u>C14. Office accommodation</u></b></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> <p>F: ..... V: ..... T: .....</p>	Item	
	<p><b><u>C15. Storage Facilities</u></b></p> <p>The Contractor shall provide a Container for storage of materials.</p> <p>F: ..... V: ..... T: .....</p>	Item	
	<p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p> <p>F: ..... V: ..... T: .....</p>	Item	
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	<p><b><u>SECTION 1 - PRELIMINARIES</u></b></p> <p><b><u>BILL No. 2: HEALTH AND SAFETY</u></b></p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>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.</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.</p> <p>Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health &amp; Safety specifications including any latest amendments.</p> <p>The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health &amp; Safety Specifications.</p> <p>The costs included herein must incorporate Community Liaison Officer (CLO).</p> <p><b><u>OCCUPATIONAL HEALTH AND SAFETY</u></b></p>			
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**General:**

1	Preparation of Contractor's site specific Health and Safety Plan.		Item
2	Submission of the Health and Safety File.		Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item
5	Provision of full time Health and Safety Officer for the entire construction period.		Item
6	Induction training of personnel.	No	10
7	Provision of first aid boxes.	No	1

**Provision for Personal Protective Equipment and Protective Clothing:**

8	Reflective vests.	No	10
9	Hard hats.	No	10
10	Protective foot wear.	No	10
11	Ear Plugs.	No	10
12	Dust Masks.	No	10

**Costs of Medical Certificates and Medical Surveillance:**

13	Initial (baseline) medical examinations.	No	10
14	Exit Examinations.	No	10

**Noise Monitoring:**

15	Establishment of noise zones.	No	1
16	Audiograms.	No	1

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	<p><b><u>SECTION No. 2 - BUILDING WORKS</u></b></p> <p><b><u>BILL No. 1: ALTERATIONS (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>General</u></b></p> <p>All work described in this bill is to be executed in/on existing buildings and prices shall allow for this</p> <p>All Architectural and Engineering drawings and specifications to be read in conjunction and any discrepancies to be brought to the attention of the Principal Agent.</p> <p>Descriptions that include the text "... take out/up/off/down and remove ....." shall indicate that the Tenderer shall allow that these items/materials shall become his property and shall be removed from site, or dumped at a site of disposal that the Tenderer has identified.</p> <p>Descriptions that include the text "..... make good ....." shall indicate that the Tenderer shall allow for all associated costs of repairing disturbed finishes, costs of disconnecting/removing the items/materials and preparatory work to receive new items/materials.</p> <p>All costs associated with the above will be deemed to be included in the Tenderer's prices.</p> <p>The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent.</p>			
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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Making good of finishes shall include making good of the brick and/or concrete surfaces onto which the new finishes are applied, where necessary

The Contractor will be required to take dimensions when fitting new items/elements to existing structures/frames, etc. as there may be some minor adjustments required and it shall be deemed that all prices shall include such minor adjustment work.

**CLEANING OF EXISTING SURFACES**

1	High pressure clean internal painted walls to remove dirt, lichen, moss, etc. complete including removal of any flaking paint and prepare to receive new paint (elsewhere measured)	m2	74	
2	High pressure clean granolithic screed flooring.	m2	184	

**GENERAL ALTERATIONS**

**General repairs:**

3	Refasten loose TR2 toilet roll holder	No	18	
4	Refasten loose 32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth	No	2	
5	Refasten loose 32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth	No	2	

**Take out and remove existing doors or door frames/linings and fanlights complete with thresholds:**

6	Timber door size 813 x 2032mm high from steel lining	No	2	
7	Take out from timber door and cart away, cylinder or mortice lockset.	No	4	
8	Take out padlock from steel gates	No	3	

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**Take out and remove piping, sanitary fittings, etc. including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere measured):**

9	15mm Polycop/Copper piping including all fittings, brackets, etc.	m	15
10	40/50mm PVC piping including all fittings, brackets, etc.	m	5
11	Broken wash hand basin including taps, traps, etc.	No	2
12	110mm PVC piping including all fittings, brackets, etc.	m	4
13	110mm PVC access bend	No	15

**Hack up/off and remove existing external plaster and wall finishes including preparing wall surfaces for new plaster (elsewhere measured):**

14	On walls	m2	2
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**SERVICING OF WINDOWS, ETC.**

15	Service window, size approximately 600 x 600mm high with top hung opening out light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing.	No	7
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**JOINT SEALANTS, ETC.**

**Approved polysulphide sealing compound including backing cord, bond breaker, primer, etc.:**

16	Around sanitary fittings	m	50
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	<b><u>SECTION No. 2: BUILDING WORKS</u></b>			
	<b><u>BILL No. 2: CARPENTRY AND JOINERY</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<b><u>SOLID TIMBER DOORS</u></b>			
	<b><u>Swartland or other approved wrot Meranti timber doors hung to timber/steel frames:</u></b>			
1	44mm Thick framed, ledged, braced and battened door size 813 x 2032mm 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	2	
	<b><u>FRAMES, ETC.</u></b>			
	<b><u>Wrot Meranti:</u></b>			
2	44 x 70mm Twice angle rounded bolted into position in existing opening with and including three 8mm diameter x 75mm long rawbolts per stile, with heads of bolts sunk and pelleted	m	10	
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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION No. 2: BUILDING WORKS</u></b></p> <p><b><u>BILL No. 3: IRONMONGERY</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted</p> <p><b><u>Fixing of ironmongery</u></b></p> <p>Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories.</p> <p>Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer.</p> <p><b><u>Finishes to ironmongery</u></b></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <p>BS Satin bronze lacquered            CP Chromium plated            SC Satin chromium plated            SE Silver enamelled            GE Grey enamelled</p>			
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AS Anodised silver  
 AB Anodised bronze  
 AG Anodised gold  
 ABL Anodised black  
 PB Polished brass  
 PL Polished and lacquered  
 PT Epoxy coated  
 SD Sanded Fixing

Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories

Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories

Unless otherwise described locks shall have two keys each

**HINGES, BOLTS, ETC.**

**Dorma or other approved:**

1	DBB-SS-009 102 x 75 x 3 SS two ball bearing butt hinge	No	6	
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**LETTERS, NAMEPLATES, ETC**

**Silver anodised aluminium nameplate with 30mm high black lettering in Arial font with letters as indicated, length to be adjusted to accommodate room designation, fixed to timber door with screws, etc.:**

2	Plate with letters "MALE ONLY"	No	3	
3	Plate with letters "FEMALE ONLY"	No	3	
4	Plate with letters "DISABLED ONLY"	No	2	
5	Plate with letters "STAFF ONLY"	No	3	

**LOCKS**

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	<b><u>BILL No. 4: PLASTERING</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<b><u>SCREEDS</u></b>			
	<b><u>3:1 Cement screed (SANS 2001) steel trowelled on concrete:</u></b>			
1	25mm Thick screed in patching to floors.	m2	5	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>4:1 Cement plaster (SANS 2001) steel trowelled on brickwork/concrete:</u></b>			
2	Walls in patching.	m2	8	
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<p><b><u>SECTION No. 2: BUILDING WORKS</u></b></p> <p><b><u>BILL No. 5: PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted</p> <p><b><u>"Polycop" polypropylene pipes:</u></b></p> <p>Polypropylene pipes 54 mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p> <p>Polypropylene pipes 63 mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints.</p> <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured.</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers.</p>			
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Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers.

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same.

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions.

All pipe diameters are nominal external.

**uPVC pipes and fittings:**

Soil, waste and vent pipes and fittings shall be solvent weld jointed.

**uPVC pressure pipes and fittings:**

Pipes for water supply shall be of the class stated.

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.

**Fixing of pipes:**

**Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level.**

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**Reducing fittings:**

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

**Flush pans:**

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary.

**Waste unions:**

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

**Chasing:**

Rates for items are to include for chasing pipes into walls where applicable.

**Disinfection of water pipework**

All pipework is to be disinfected in accordance with SABS 1200L.

**Flexible connectors**

Tenderers are to allow for the pricing of flexible connectors to all instances where deemed necessary. No extra will be entertained in this regard.

**Internal water supplies**

Prices for all piping laid in ground, inspection chambers, etc. shall include for excavations, keeping free of water, distributing surplus material on site (carting away has been separately measured) and backfilling in selected material (imported fill where required will be separately measured).

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Holes, chases, etc. are deemed to be included in the descriptions of the pipework.

**Testing of installations/reticulation**

The Contractor is to allow for testing of the internal water supply and fire supply installations per building as this will be completed as per the beneficial occupation requirements, as elsewhere described.

**RAINWATER DISPOSAL**

**Marley Vynadeep or other approved uPVC:**

1	125mm Half round eaves gutters fixed to fascia at maximum 600mm centres with and including proprietary fixings.	m	6
2	Extra over eaves gutter for stopped end.	No	4
3	Extra over eaves gutter for outlet for 80mm diameter downpipe.	No	6
4	80mm Diameter rainwater pipes in continuous lengths fixed to brickwork with and including proprietary holderbats.	m	24
5	Extra over rainwater pipe for bend.	No	12

**WATER SUPPLY**

**Polycop or other approved polypropylene piping, including chasing into brick walls if required:**

6	15mm pipe	m	16
7	22mm pipe	m	28
<b><u>Extra over Polycop pipes for brass compression fittings:</u></b>			
8	15mm Fittings.	No	30
9	22mm Fittings.	No	20

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	<b><u>Testing water supply installations to the following buildings:</u></b>			
10	Works completed to renovated areas		Item	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC piping in accordance with SABS 967, including all straight couplings, cutting and waste, etc.:</u></b>			
11	50mm Pipes.	m	12	
12	110mm Pipes.	m	3	
	<b><u>Extra over uPVC piping for the following fittings:</u></b>			
13	50mm Access bend.	No	24	
14	110mm Access bend.	No	15	
	<b><u>Testing sanitary plumbing installations to the following buildings:</u></b>			
15	Works completed to renovated areas		Item	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>Supply and fit the following sanitary fittings and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required, cutting, brackets, clamps, etc. and connecting up pipework and handing over in perfect working order at completion</u></b>			
	<b><u>All gaps between fittings and/or tiles and walls to be filled with white silicone sealer</u></b>			
	<b><u>Lecico or other approved:</u></b>			
16	Amaro 2 Code 037119 white vitreous china wall hung basin with one semi-punched tap hole with integrated overflow	No	2	
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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17	Neon WC Code NEOBOXFFLOELFBE box set including close couple pan, cistern, dual push button top flush mechanism complete with seat and lid complete with fixing screws	No	1		
	<b><u>TAPS, VALVES, ETC.</u></b>				
	<b><u>Cobra Watertech or other approved:</u></b>				
18	15mm Brass ball-o-stop.	No	11		
19	15mm Chromium plated brass metered bib tap with non-hold open feature and flow control.	No	3		
20	"Flushmaster Junior FJ 6.000" or other equal approved 22mm chromium plated exposed type urinal flushvalve with "FJT 5.5" chromium plated flushpipe, integral non hold-open feature and ball-o-flo valve, with wall plate.	No	1		
21	22mm Brass non-return valve.	No	5		
	<b><u>WASTE UNIONS, TRAPS, ETC.</u></b>				
	<b><u>Cobra Watertech or other approved:</u></b>				
22	32mm Chromium plated 302 slotted basin aqua waste union complete with 62mm diameter flange 80mm long shank and plug	No	1		
23	40mm PVC combination resealing P or S trap	No	1		
	<b>Carried to Collection</b>				R
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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Section No. 2

Bill No. 5

PLUMBING AND DRAINAGE

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Bill No. 5

PLUMBING AND DRAINAGE

**PROVISIONAL BILLS OF QUANTITIES**

**COMPLETION OF MAQOMA PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION No. 2: BUILDING WORKS (PROVISIONAL)</u></b></p> <p><b><u>BILL No. 6: GLAZING</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted</p> <p><b><u>SAFETY GLASS</u></b></p> <p>All safety glass materials are to be permanently marked and all marks to be visible after glazing.</p> <p>A Certificate of Compliance will be required certifying that the type/quality of the glass (including the glass pre-fitted to aluminium doors, windows or shopfronts - elsewhere) is in accordance with the specified requirements.</p> <p><b><u>6,38mm Thick clear laminated safety glass fixed to steel with putty:</u></b></p>			
1	In panes exceeding 0,1m2 and not exceeding 0,5m2 in area.	m2	1	
	<b>Carried Forward to Summary of Section No. 2</b>			R
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION No. 2: BUILDING WORKS (PROVISIONAL)</u></b></p> <p><b><u>BILL No. 7: PAINTWORK</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 series documents</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted</p> <p><b><u>Previously painted plastered surfaces</u></b></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><b><u>Previously painted metal surfaces</u></b></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><b><u>Previously painted wood surfaces</u></b></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint or varnish shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINTWORK TO PREVIOUSLY PAINTED SURFACES</u></b></p>			
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

**Wash down soiled surfaces with sugar soap, sand down to remove all flaking paint, fill imperfections with Mendall and apply one coat plaster primer and two coats Plascon Double Velvet paint on:**

1	External plastered walls.	m2	3
2	Internal plastered walls.	m2	4
3	Internal smooth plastered walls in narrow widths not exceeding 300mm wide.	m2	12
4	Existing internal concrete floors.	m2	16
5	Existing skirtings in narrow widths not exceeding 300mm high.	m	11

**PREVIOUSLY PAINTED METALWORK**

**Clean down painted surfaces thoroughly apply one coat calcium plumbate primer and two coats eggshell enamel paint on:**

6	Windows (both sides measured).	m2	2
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**NEW WORKS**

**ON WOOD**

**Prepare and apply two coats carbolenium on:**

7	Backs of frames or linings not exceeding 300mm girth.	m	10
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**Clean down, prepare and apply two coats Plascon Velvaglo water based paint on:**

8	Surfaces of flush panel doors.	m2	9
9	Surfaces of frames and linings not exceeding 300mm girth.	m	10

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PAINTWORK

**PROVISIONAL BILLS OF QUANTITIES**

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PAINTWORK

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PAINTWORK

**PROVISIONAL BILLS OF QUANTITIES**

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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION No. 2: BUILDING WORKS (PROVISIONAL)</u></b></p> <p><b><u>BILL No. 8: EXTERNAL WORKS (PROVISIONAL)</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 series documents</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted</p> <p><b><u>General</u></b></p> <p>The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent</p> <p><b><u>External water reticulation repairs</u></b></p> <p>Tenderers are to take note that a large portion of the water reticulation repair works are done on existing flat roof buildings (links) (ground level to top of roof approximately 4m). The contractor shall include for all required OHS items as per the included OHS plan, scaffolding, lifting in position, etc. that may be required when pricing the Water reticulation section.</p> <p><b><u>Procedure of work</u></b></p> <p>The Principal Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.</p>			
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**Maintenance period**

Attention is drawn to the maintenance period of twelve (12) months from Practical Completion

**Lost by theft, fire or otherwise**

The risk of loss by theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site. He shall take steps as he may deem fit for his own protection against such loss.

**Water and other piping**

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Representative/Agent to whom due notice is to be given of all alterations to existing services.

Prices for items of demolitions, are where applicable, to include for taking out and removing all sanitary fittings, plumbing and water supplies.

**Electrical and other services**

Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone, or other wires and fittings that may be met with and due notice must be given to the Representative / Agent when any disconnections, removals, diversions, interruptions, etc. are necessary and the Contractor is to afford every facility to the workmen carrying out this work.

**Noise prevention**

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

**Demolitions, removals and works on site**

The whole of old materials from the demolitions and pulling down, unless otherwise specified are to become

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the property of the Contractor and shall be immediately cleared from the site.

Tenderers are advised to visit the site and to satisfy themselves, in conjunction with the drawings of the nature and extent of the work to be done.

The contractor is advised to check all dimensions and heights on site affecting the existing building against those indicated on plan as he will be responsible for all new work being of the correct sizes. Should any discrepancies be found he is to refer them to the Representative / Agent for correction before proceeding with the work.

Special care is to be exercised not to interfere with any electric light, power or telephone wires and due notice must be given to the Representative / Agent for any disconnection that is necessary, and the Contractor is to afford every facility to the Electrician when making new connections.

Any water supply or soil or waste pipes that may be met with and found necessary to be disconnected or cut are to be traced back to the main connection, cut out and plugged with (3-1) cement mortar to a minimum depth of 300mm and any new connections that may be necessary are to be made with proper junction pieces, tees, etc. to the satisfaction of the Representative / Agent, to whom due notice must be given of all alterations to the existing services.

In taking down and removing existing work, the utmost care is to be observed to avoid any structural or other damage to the remaining portion of the building. The Contractor must protect all work not removed, such as walls, floors, doors, windows or other joinery or fittings, etc. from damage during the progress of the work and provide all necessary material for doing so.

The Contractor will be solely responsible for any damage to persons or property and for the safety of the portions of the existing buildings remaining throughout the whole of the Contract, and must make good at his own expense any damage that may occur.

Old materials for re-use are to be carefully taken out, stored and protected from damage and made good as required before being re-fixed into position.

Old materials described to be handed over are to be

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carefully removed and properly stored by the Contractor until handing over thereof. The remainder of the old materials and all rubbish are to be immediately carted away and the site left clean and unencumbered. None of the old materials from the demolitions are to be re-used for any new work unless otherwise described or directed.

Bricking up openings shall include all preparatory work, cutting toothings and bonding new brickwork to existing surface for raising upon, pinning up new brickwork to underside of existing.

Forming new openings shall include all labour and materials in forming opening, cutting toothings and bonding for and plumbing and flushing reveals, cutting for and forming precast concrete, or reinforced brick lintol over including necessary turning pieces, reinforcement, sills, etc.

Making good shall include all labour and material required to match existing work and is to include making good new work up to existing and labours to plaster, etc.

Shoring is not specifically mentioned in each item, however, prices are to include for all shoring, needling, strutting deadwork, etc. as may be required.

**TEMPORARY BARRIERS, SCREENS, ECT.**

**Temporary hoarding including dismantling all hoarding, filling all post holes and compacting and levelling to adjacent ground levels, when work is completed:**

1	Hoarding formed of 1,8m high galvanised steel weldmesh type fencing with 50 x 100mm apertures, secured to and including 60mm diameter treated gumpole fencing posts 2400mm long at 2m centres, gumpoles securely bedded 600mm deep in ground, medium grade shade cloth securely fastened to and including four rows of 4mm diameter straining wires, fastened to fencing and posts with 2mm diameter galvanised binding wire at 400mm centres, including all excavations, etc.	m	30
2	Pedestrian gate size 1000 x 1800mm high complete with all necessary posts, hinges, locking mechanism, etc.	No	1

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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

**CLEANING OF EXISTING CONCRETE  
WALKWAYS/ROADS**

Where descriptions refer to "..... clean of existing concrete walkways/roads ....", Tenderers shall allow for the cleaning off of all fungal matter by whatever means and water pressure cleaning the areas

3	Clean existing concrete walkways/roads by pressure cleaning to remove all algae, discolourations, dirt, etc.	m2	30	
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**REMOVAL OF EXISTING BUILDERS RUBBLE**

**Remove builder rubble from site which consist of bricks, dry mortar, concrete waste, sanitary fitting, ETC. including levelling out area[s] where rubble was removed:**

4	Builders rubble off site to a dumping site to identified by contractor	m3	30	
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**EXTERNAL WATER RETICULATION**

**uPVC Class 9 pressure pipes in accordance with SABS 966, with spigots and sockets including all straight couplings, cutting and waste, etc.:**

5	32mm Pipe and laying in ground not exceeding 1000mm deep.	m	33	
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**Extra over uPVC pressure pipes for Class 9 uPVC pressure type fittings:**

6	32mm bend.	No	20	
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7	40mm bend.	No	10	
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8	32mm Tee junction.	No	8	
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9	40mm Tee junction.	No	5	
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10	32 x 40 x 32mm Reducing tee.	No	1	
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11	32 x 54 x 32mm Reducing tee.	No	1	
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12	40 x 63 x 40mm Reducing tee.	No	1	
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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<b><u>Taps, valves, etc.</u></b>			
13	32mm Gate valve.	No	6
14	32mm Non return valve.	No	1
<b><u>Testing</u></b>			
15	Allow for testing, operational manual and training for complete external water pipe system		Item
<b><u>SOIL DRAINAGE</u></b>			
<b><u>EXISTING SERVICES</u></b>			
Jet or high pressure cleaning to be carried out on subsurface piping, rodding eyes, manholes, etc. to be carried out to the complete satisfaction of the Engineer.			
<b><u>Pipes jetting:</u></b>			
16	110mm Pipe fixed to walls.	m	43
17	110mm Pipe not exceeding 1000mm deep.	m	125
18	110mm Pipe exceeding 1000mm not exceeding 2000mm deep.	m	50
<b><u>Testing</u></b>			
19	Testing complete drainage pipe system		Item
<b><u>THE FOLLOWING IN BUFFER TANKS</u></b>			
<b><u>Valves,Switches, ETC:</u></b>			
20	Float switch kit fitted inside of tank.	No	2
<b><u>Connection of new to existing pipes</u></b>			
21	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2
22	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	2
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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23	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1	
	<b><u>Testing:</u></b>			
24	Testing complete plumbing connection to the tanks		Item	
	<b><u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u></b>			
25	Supply and erecting of the portable chemical toilet during the duration of the contract.	No	5	
26	Servicing and maintain the ten portable chemical toilets on a weekly basis during duration of the contract. (No = week)	No	4	
27	Removal of the portable chemical toilet on completion of the contract.	No	5	
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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EXTERNAL WORKS

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EXTERNAL WORKS

**PROVISIONAL BILLS OF QUANTITIES**

**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO.3 - PROVISIONAL SUMS , BUDGETARY ALLOWANCES, ECT.</u></b></p> <p><b><u>BILL No. 1: PROVISIONAL SUMS</u></b></p> <p><b><u>PROVISIONAL SUMS, BUDGETARY ALLOWANCES, ETC.</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the Supplementary Preambles hereunder and Department of Public Works PW371 document</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>General</u></p> <p>Work for which budgetary allowances are provided will be measured and valued in accordance with Clause 26 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances</p> <p>Prime Cost amounts and Provisional Sums are nett. Prime Cost amounts include for delivery to site of all articles concerned</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these Bills of Quantities</p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b>BUDGETARY ALLOWANCES</b> under this heading are for work to be executed by the Contractor and are to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. The work shall be measured and valued in accordance with the "Conditions of Contract".</p>			
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<p>Section No. 3 Bill No. 1 PROVISIONAL SUMS, BUDGETARY ALLOWANCES, EC</p> <p><b>PROVISIONAL BILLS OF QUANTITIES</b></p>			

**COMPLETION OF MAQOMA PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

**PUMP AND PUMHOUSE**

1	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
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**ELECTRICAL CONNECTION**

2	Allow the Budgetary Allowance of R 15 000,00 (Fifteen Thousand Rand) for the electrical supply to the water pumps, float switches, ect.	Item	15,000.00
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**COMMUNITY LIAISON OFFICER (CLO)**

3	Provide the sum of R13 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (2 months)	Item	13,000.00
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4	Add: Mark-up		%
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**TESTING AND COMPLIANCE OF PREVIOUSLY COMPLETED WORKS**

5	Provide the sum of R10,000.00 for testing concrete strength from a previous contract by means approved by the Engineer.	Item	10,000.00
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6	Add: Mark-up		%
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**COMMITMENT OF PREVIOUS CONTRACTOR**

7	Provide the sum of R32,000.00 for payment of outstanding wages of labourers (from previous contract) to be paid by Main Contractor on taking possession of the site	Item	32,000.00
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8	Add: Mark-up		%
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**PROVISIONAL BILLS OF QUANTITIES**

**COMPLETION OF MAQOMA PRIMARY SCHOOL  
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	Sub - Total		R
	<b><u>CONTINGENCY PROVISIONS</u></b>		
	Allow the sum of R30,000.00 (Thirty Thousand Rand) for Contingencies to be used or deducted in full at the Principal Agent's discretion		R 30,000.00
	Sub - Total		R
	Add Value - Added Tax at the rate applicable as at Tender closing date.		R
	Sub - Total		R
	<b>Carried to Form of Tender</b>		R
	<b>PROVISIONAL BILLS OF QUANTITIES</b>		