

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 1</u></b></p> <p><b><u>BILL No.1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <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> |          |      |        |
|         | <b>Carried to Collection</b>  |          | R    |        |
|         | Section 1   |          |      |        |
|         | Bill No. 1  |          |      |        |
|         | Preliminaries   |          |      |        |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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| <p>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.</p> <p>8. Where any item is not relevant to this specific contract, such item is marked N/A.</p> <p>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.</p> |  |  |  |  |
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|  | <p><b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b></p> <p><b><u>DEFINITIONS</u></b></p> <p>Definitions and interpretation (Clause 1).</p> <p>1 F: ..... V: ..... T: .....</p> <p><b><u>OBJECTIVE AND PREPARATION</u></b></p> <p>Offer, acceptance and performance (Clause 2).</p> <p>2 F: ..... V: ..... T: .....</p> <p>Documents (Clause 3).</p> <p>Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'</p> <p>Clause 3.3 is deleted and substituted with:</p> <p>The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.</p> <p>3 F: ..... V: ..... T: .....</p> <p>Design responsibility (Clause 4).</p> <p>4 F: ..... V: ..... T: .....</p> <p>Employer's agents (Clause 5).</p> <p>5 F: ..... V: ..... T: .....</p> <p>Site representative (Clause 6).</p> <p>6 F: ..... V: ..... T: .....</p> <p>Compliance with regulations (Clause 7).</p> <p>7 F: ..... V: ..... T: .....</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> | <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> |   |  |
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## 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

## EXECUTION

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

Contract instructions (Clause 17).

**Carried to Collection**

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Section 1  
Bill No. 1  
Preliminaries

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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| 17                                       | F: ..... V: ..... T: .....<br><br>Setting out of the works (Clause 18.3).<br><br>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: .....<br><br>Assignment (Clause 19).  | Item |   |  |  |
| 19                                       | F: ..... V: ..... T: .....<br><br>Nominated subcontractors (Clause 20).  | Item |   |  |  |
| 20                                       | F: ..... V: ..... T: .....<br><br>Selected subcontractors (Clause 21).   | Item |   |  |  |
| 21                                       | F: ..... V: ..... T: .....<br><br>Employer's Direct contractors (Clause 22).   | Item |   |  |  |
| 22                                       | F: ..... V: ..... T: .....<br><br>Contractor's Domestic subcontractors (Clause 23).  | Item |   |  |  |
| 23                                       | F: ..... V: ..... T: .....<br><br><b><u>COMPLETION</u></b><br><br>Practical completion (Clause 24).  | Item |   |  |  |
| 24                                       | F: ..... V: ..... T: .....<br><br>Works completion (Clause 25).  | Item |   |  |  |
| 25                                       | F: ..... V: ..... T: .....<br><br>Final completion (Clause 26).  | Item |   |  |  |
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| Section 1<br>Bill No. 1<br>Preliminaries |  |      |   |  |  |

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|   | <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> |      |  |   |  |
| 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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| <p>Section 1</p> <p>Bill No. 1</p> <p>Preliminaries</p> |  |      |  |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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|   | <p>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.</p> <p>Adjustment to the contract value (Clause 32).</p> |      |   |  |  |
| 30  | <p>F: ..... V: ..... T: .....</p> <p>Recovery of expense and loss (Clause 33).</p>   | Item |   |  |  |
| 31  | <p>F: ..... V: ..... T: .....</p> <p>Final account and final payment (Clause 34).</p>  | Item |   |  |  |
| 32  | <p>F: ..... V: ..... T: .....</p> <p>Payment to other parties (Clause 35).</p>   | Item |   |  |  |
| 33  | <p>F: ..... V: ..... T: .....</p> <p><b><u>CANCELLATION</u></b></p> <p>Cancellation by Employer - Contractor's default (Clause 36).</p>  | Item |   |  |  |
| 34  | <p>F: ..... V: ..... T: .....</p> <p>Cancellation by Employer - Loss and damage (Clause 37).</p>   | Item |   |  |  |
| 35  | <p>F: ..... V: ..... T: .....</p> <p>Cancellation by Contractor - Employer's default (Clause 38).</p>  | Item |   |  |  |
| 36  | <p>F: ..... V: ..... T: .....</p> <p>Cancellation - Cessation of the works (Clause 39).</p>  | Item |   |  |  |
| 37  | <p>F: ..... V: ..... T: .....</p>  | Item |   |  |  |
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| <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> |  |      |   |  |  |

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|  | <p><b><u>DISPUTE</u></b></p> <p>Dispute Settlement (Clause 40)</p> <p>38 F: ..... V: ..... T: .....</p> <p><b><u>SUBSTITUTE PROVISIONS</u></b></p> <p>State Clauses (Clause 41)</p> <p>39 F: ..... V: ..... T: .....</p> <p><b><u>CONTRACT VARIABLES</u></b></p> <p>The Schedule: Pre-Tender information (Clause 42).</p> <p>40 F: ..... V: ..... T: .....</p> <p><b><u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u></b></p> <p>Employer: The Mvula Trust</p> <p>Postal Address: 67 Devereux Avenue, Vincent, East London</p> <p>Telephone: 043 726 2255</p> <p>Facsimile: 043 726 5967</p> <p>Physical address: 67 Devereux Avenue, Vincent, East London</p> <p>Principal Agent: The Mvula Trust</p> <p>Postal Address: 67 Devereux Avenue, Vincent, East London</p> <p>Telephone: 043 726 2255</p> <p>Facsimile: 043 726 5967</p> <p>Physical address: 67 Devereux Avenue, Vincent, East London</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> | <p>Item</p> <p>Item</p> <p>Item</p> |   |  |
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|  | <p>Penalty amount will be R 2000.00 per Calendar day to a maximum of 10% of Contract Value.</p> <p>Clause 42.2.8</p> <p>Intended dates of practical completion and the penalties per calendar day for the works in sections :</p> <p>N/A</p> <p>Clause 42.2.9</p> <p>The law applicable to this agreement shall be that of - Republic of South Africa.</p> <p><b><u>INSURANCES (Clause 42.3)</u></b></p> <p>Clause 42.3.1</p> <p>Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10%</p> <p>With a deductible of : 5% of insured amount</p> <p>Clause 42.3.2</p> <p>Supplementary insurance is required : Yes</p> <p>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).</p> <p>Clause 42.3.3</p> <p>Public liability insurance to be effected by Contractor</p> <p>For the amount of: R 5million</p> <p>With a deductible of: 5% of insured amount</p> <p><b><u>DOCUMENTS (Clause 42.4)</u></b></p> <p>Clause 42.4.1</p> <p>Waiver of the contractor's lien is required :- YES</p> <p>Clause 42.4.2</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> |  |   |  |
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|   | <p>Number of construction document copies to be supplied to the Contractor free of charge :- 1</p> <p>Clause 42.4.3</p> <p>Bills of Quantities drawn up in accordance with :-</p> <p>Standard System of Measuring Building Work - Seventh Edition including all amendments</p> <p>Clause 42.4.4</p> <p>Number of days for submission of priced documents : 5 working days from the Letter of Appointment.</p> <p>Clause 42.4.5</p> <p>JBCC Engineering General Conditions are to be included in the documents :- No</p> <p>Clause 42.4.6</p> <p>The contract value is to be adjusted using CPAP:- NO</p> <p><b><u>SECTION B: PRELIMINARIES</u></b></p> <p><b><u>DEFINITIONS AND INTERPRETATION (B1)</u></b></p> <p>Definitions and Interpretation (B1)</p> |      |  |   |  |
| 41  | <p>F: ..... V: ..... T: .....</p> <p><b><u>DOCUMENTS (B2)</u></b></p> <p>Checking of documents (B2.1)</p> <p>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.</p>   | Item |  |   |  |
| 42  | <p>F: ..... V: ..... T: .....</p> <p>Provisional Bills of Quantities (B2.2) YES</p>  | Item |  |   |  |
| <b>Carried to Collection</b>                      |  |      |  | R |  |
| <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> |  |      |  |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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|   | <p>Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.</p>  |      |  |   |  |
| 43  | <p>F: ..... V: ..... T: .....</p> <p>Availability of construction documentation (B2.3)</p>   | Item |  |   |  |
| 44  | <p>F: ..... V: ..... T: .....</p> <p>Interests of Agents (B2.4)</p>  | Item |  |   |  |
| 45  | <p>F: ..... V: ..... T: .....</p> <p>Priced documents (B2.5)</p>   | Item |  |   |  |
| 46  | <p>F: ..... V: ..... T: .....</p> <p>Tender submission (B2.6)</p> <p>Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.</p>   | Item |  |   |  |
| 47  | <p>F: ..... V: ..... T: .....</p> <p><b><u>THE SITE (B3)</u></b></p> <p>Defined works area (B3.1)</p> <p>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.</p> <p>Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.</p> <p>The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.</p> | Item |  |   |  |
| <b>Carried to Collection</b>                      |  |      |  | R |  |
| <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> |  |      |  |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |   |      |   |  |
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| 48                                       | F: ..... V: ..... T: .....<br>Geotechnical investigation (B3.2)<br>A desktop geotechnical report is available upon request. | Item |   |  |
| 49                                       | F: ..... V: ..... T: .....<br>Inspection of the Site (B3.3)   | Item |   |  |
| 50                                       | F: ..... V: ..... T: .....<br>Existing premises occupied (B3.4)   | Item |   |  |
| 51                                       | F: ..... V: ..... T: .....<br>Previous work - dimensional accuracy (B3.5)   | Item |   |  |
| 52                                       | F: ..... V: ..... T: .....<br>Previous work - defects (B3.6)  | Item |   |  |
| 53                                       | F: ..... V: ..... T: .....<br>Services - known (B3.7)   | Item |   |  |
| 54                                       | F: ..... V: ..... T: .....<br>Services - unknown (B3.8)   | Item |   |  |
| 55                                       | F: ..... V: ..... T: .....<br>Protection of trees (B3.9)  | Item |   |  |
| 56                                       | F: ..... V: ..... T: .....<br>Articles of value (B3.10)   | Item |   |  |
| 57                                       | F: ..... V: ..... T: .....<br>Inspection of adjoining properties (B3.11)  | Item |   |  |
| 58                                       | F: ..... V: ..... T: .....<br><b><u>MANAGEMENT OF CONTRACT (B4)</u></b><br>Management of the Works (B4.1)                   | Item |   |  |
| <b>Carried to Collection</b>             |   |      | R |  |
|  |   |      |   |  |
| Section 1<br>Bill No. 1<br>Preliminaries |   |      |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |  |      |   |  |
|--|--|------|---|--|
| 59                                       | F: ..... V: ..... T: .....<br>Programme for the Works (B4.2)   | Item |   |  |
| 60                                       | F: ..... V: ..... T: .....<br>Progress meetings (B4.3)   | Item |   |  |
| 61                                       | F: ..... V: ..... T: .....<br>Technical meetings (B4.4)  | Item |   |  |
| 62                                       | F: ..... V: ..... T: .....<br><b><u>SAMPLES AND SHOP DRAWINGS (B5)</u></b><br>Samples of materials (B5.1)  | Item |   |  |
| 63                                       | F: ..... V: ..... T: .....<br>Workmanship samples (B5.2)   | Item |   |  |
| 64                                       | F: ..... V: ..... T: .....<br>Shop drawings (B5.3)   | Item |   |  |
| 65                                       | F: ..... V: ..... T: .....<br><b><u>TEMPORARY WORKS AND PLANT (B6)</u></b><br>Deposits and fees (B6.1)   | Item |   |  |
| 66                                       | F: ..... V: ..... T: .....<br>Enclosure of the works (B6.2)<br><br>The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others. | Item |   |  |
| 67                                       | F: ..... V: ..... T: .....<br>Advertising (B6.3)   | Item |   |  |
| 68                                       | F: ..... V: ..... T: .....   | Item |   |  |
| <b>Carried to Collection</b>             |  |      | R |  |
|  |  |      |   |  |
| Section 1<br>Bill No. 1<br>Preliminaries |  |      |   |  |

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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### Plant and equipment (B6.4)

69 | F: ..... V: ..... T: .....

Item

### Main notice board (B6.5)

One notice board shall be provided by the Contractor

70 | F: ..... V: ..... T: .....

Item

Subcontractors notice board (B6.6) (N/A)

71 | F: ..... V: ..... T: .....

Item

**TEMPORARY SERVICES (B7)**

Location (B7.1)

72 | F: ..... V: ..... T: .....

Item

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).

73 F: ..... V: ..... T: .....

Item

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).

74 F: ..... V: ..... T: .....

Item

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).

75 | F: ..... V: ..... T: .....

Item

**Carried to Collection**

R

Section 1  
Bill No. 1  
Preliminaries

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|    |   |      |  |   |  |
|----|---|------|--|---|--|
|    | <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> <p>Payment certificate cash flow (B10.4)</p>  | Item |  |   |  |
|    | <b>Carried to Collection</b>  |      |  | R |  |
|    | <p>Section 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>   |      |  |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |   |      |   |  |  |
|--|---|------|---|--|--|
| 84                                       | F: ..... V: ..... T: .....<br><br>Contractor information supply (B10.5)                               | Item |   |  |  |
| 85                                       | F: ..... V: ..... T: .....<br><br><b><u>GENERAL (B11)</u></b><br><br>Protection of the Works (B11.1)  | Item |   |  |  |
| 86                                       | F: ..... V: ..... T: .....<br><br>Protection/isolation of existing/sectionally occupied works (B11.2) | Item |   |  |  |
| 87                                       | F: ..... V: ..... T: .....<br><br>Site security (B11.3)   | Item |   |  |  |
| 88                                       | F: ..... V: ..... T: .....<br><br>Notice before covering work (B11.4)                                 | Item |   |  |  |
| 89                                       | F: ..... V: ..... T: .....<br><br>Disturbance (B11.5)   | Item |   |  |  |
| 90                                       | F: ..... V: ..... T: .....<br><br>Works cleaning and clearing (B11.6)                                 | Item |   |  |  |
| 91                                       | F: ..... V: ..... T: .....<br><br>Vermin (B11.7)  | Item |   |  |  |
| 92                                       | F: ..... V: ..... T: .....<br><br>Overhand work (B11.8)   | Item |   |  |  |
| 93                                       | F: ..... V: ..... T: .....  | Item |   |  |  |
| <b>Carried to Collection</b>             |   |      | R |  |  |
|  |   |      |   |  |  |
| Section 1<br>Bill No. 1<br>Preliminaries |   |      |   |  |  |

|  |  |      |  |   |  |
|--|--|------|--|---|--|
| <b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>  |  |      |  |   |  |
| <b><u>Section C: Specific Preliminaries:</u></b> |  |      |  |   |  |
|  | C1. Proprietary branded products   |      |  |   |  |
|  | The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.   |      |  |   |  |
| 94   | F: ..... V: ..... T: .....   | Item |  |   |  |
|  | C2. Trade Names, etc.  |      |  |   |  |
|  | All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.   |      |  |   |  |
|  | The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.  |      |  |   |  |
| 95   | F: ..... V: ..... T: .....   | Item |  |   |  |
|  | C3. Contractors responsibility   |      |  |   |  |
|  | The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved. |      |  |   |  |
| 96   | F: ..... V: ..... T: .....   | Item |  |   |  |
|  | C4. Overtime   |      |  |   |  |
| <b>Carried to Collection</b>                     |  |      |  | R |  |
| Section 1  |  |      |  |   |  |
| Bill No. 1                                       |  |      |  |   |  |
| Preliminaries                                    |  |      |  |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|           |   |             |          |  |
|-----------|---|-------------|----------|--|
| <p>97</p> | <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p> <p>F: ..... V: ..... T: .....</p> <p>C5. As built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p> | <p>Item</p> |          |  |
| <p>98</p> | <p>F: ..... V: ..... T: .....</p> <p>C6. Construction Instructions</p> <p>Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:</p> <p>a) Construction Instruction Book:</p> <p>Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.</p> <p>Only instructions issued in such book shall be recognised.</p> <p>b) Daily Record Book:</p>   | <p>Item</p> |          |  |
|           | <p style="text-align: right;"><b>Carried to Collection</b></p>  |             | <p>R</p> |  |
|           | <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p>   |             |          |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|   |   |      |  |   |  |
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|   | <p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p> |      |  |   |  |
| 99  | <p>F: ..... V: ..... T: .....</p> <p>C7. Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>  | Item |  |   |  |
| 100   | <p>F: ..... V: ..... T: .....</p> <p>C8. Plant record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>  | Item |  |   |  |
| 101   | <p>F: ..... V: ..... T: .....</p> <p>C9. Encroachment</p> <p>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.</p>  | Item |  |   |  |
| 102   | <p>F: ..... V: ..... T: .....</p> <p>C10. Method Statement</p>  | Item |  |   |  |
| <b>Carried to Collection</b>                      |   |      |  | R |  |
| <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> |   |      |  |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|     |  |      |   |  |
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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>C11. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p> | Item |   |  |
| 104 | <p>F: ..... V: ..... T: .....</p> <p>C12. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p>   | Item |   |  |
| 105 | <p>F: ..... V: ..... T: .....</p>  | Item |   |  |
|     | <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p>   |      | R |  |

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|   | <p><b>C13. Location of Temporary Buildings and Temporary Services</b></p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> |      |  |   |  |
| 106   | <p>F: ..... V: ..... T: .....</p> <p><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>  | Item |  |   |  |
| 107   | <p>F: ..... V: ..... T: .....</p> <p><b><u>C15. Storage Facilities</u></b></p>   | Item |  |   |  |
| 108   | <p>The Contractor shall provide a Container for storage of materials.</p>  | Item |  |   |  |
| 109   | <p>F: ..... V: ..... T: .....</p> <p><b>C16. Removal and Making Good of Temporary Works, etc, on Completion</b></p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>   | Item |  |   |  |
| 110   | <p>F: ..... V: ..... T: .....</p> <p><b><u>C17. SMME Management</u></b></p>  | Item |  |   |  |
| <b>Carried to Collection</b>                      |  |      |  | R |  |
| <p>Section 1<br/>Bill No. 1<br/>Preliminaries</p> |  |      |  |   |  |

# EKUPHUMLENI PRIMARY SCHOOL

Company and head office overhead costs for the management of SMME's in accordance with the contract conditions, including the provision of a dedicated individual to fulfill this function. Training of SMME's in building up BOQ rates at the start of the project is to be priced in this item.

Item

Preliminary and general costs for SMME's including site representatives, offices, storage sheds, tools, equipment, water supplies, electric power, communications, dealing with water and access, temporary works, plant, works cleaning and clearing, etc.

Item

Item

Item

Item

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-24-

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |                    |   |               |  |
|--|--------------------|---|---------------|--|
| Section 1  |                    |   |               |  |
| Bill No. 1   |                    |   |               |  |
| Preliminaries  |                    |   |               |  |
| <b><u>COLLECTION</u></b>   |                    |   |               |  |
|  | <b>Page<br/>No</b> |   | <b>Amount</b> |  |
| Total Brought Forward from Page No.  | 1                  |   |               |  |
|  | 2                  |   |               |  |
|  | 3                  |   |               |  |
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|  |                    |   |               |  |
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|  |                    |   |               |  |
| <div>Section 1</div> <div>Bill No. 1</div> <div>Preliminaries</div> <div>Carried Forward</div> |                    | R |               |  |

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 1</u></b></p> <p><b><u>BILL No. 2</u></b></p> <p><b><u>HEALTH AND SAFETY</u></b></p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><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.</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> |          |      |        |
|         | <b>Carried to Collection</b>   |          | R    |        |
|         | Section 1  |          |      |        |
|         | Bill No. 2   |          |      |        |
|         | Health and Safety  |          |      |        |

| <b><u>OCCUPATIONAL HEALTH AND SAFETY</u></b>                                       |  |    |      |  |
|--|--|----|------|--|
| <b><u>General:</u></b>   |  |    |      |  |
| 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 | 1    |  |
| 7  | Provision of first aid boxes.  | No | 1    |  |
| <b><u>Provision for Personal Protective Equipment and Protective Clothing:</u></b> |  |    |      |  |
| 8  | Reflective vests.  | No | 1    |  |
| 9  | Reflective vests - SMME's.   | No | 1    |  |
| 10   | Hard hats.   | No | 1    |  |
| 11   | Hard hats - SMME's.  | No | 1    |  |
| 12   | Protective foot wear.  | No | 1    |  |
| 13   | Protective foot wear - SMME's.   | No | 1    |  |
| 14   | Ear Plugs.   | No | 1    |  |
| 15   | Ear Plugs - SMME's.  | No | 1    |  |
| 16   | Dust Masks.  | No | 1    |  |
| 17   | Dust Masks - SMME's.   | No | 1    |  |
| <b>Carried to Collection</b>   |  |    | R    |  |
| Section 1<br>Bill No. 2<br>Health and Safety                                       |  |    |      |  |

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Nature of material to be excavated:</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".</p> <p><u>Carting away of excavated material:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p> |          |      |        |
|         | <b>Carried to Collection</b>   |          | R    |        |
|         | <p>Section 2</p> <p>Bill No. 1</p> <p>Earthworks (Provisional)</p>   |          |      |        |

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|--|--|--|----------|--|--|
|  | <p><u>Dewatering of excavations:</u></p> <p>The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <p><u>Density testing on filling:</u></p> <p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.</p> <p><u>Imported fill:</u></p> <p>"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"</p> <p><u>Classification of excavated material</u></p> <p>"Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness.</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0,03m<sup>3</sup> in volume.</p> |  |          |  |  |
|  | <p><b>Carried to Collection</b></p>  |  | <p>R</p> |  |  |
|  | <p>Section 2<br/>Bill No. 1<br/>Earthworks (Provisional)</p>   |  |          |  |  |

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| <b><u>EXCAVATION OTHER THAN BULK</u></b>   |   |    |      |   |  |
| <b><u>Excavation in earth not exceeding 2m deep:</u></b>   |   |    |      |   |  |
| 1  | Trenches.   | m3 | 69   |   |  |
| 2  | Holes.  | m3 | 133  |   |  |
| 3  | Reduced levels under floors.  | m3 | 24   |   |  |
| <b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>   |   |    |      |   |  |
| 4  | Soft rock.  | m3 | 20   |   |  |
| 5  | Hard rock.  | m3 | 10   |   |  |
| <b><u>Extra over all excavations for carting away:</u></b>   |   |    |      |   |  |
| 6  | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. | m3 | 212  |   |  |
| <b><u>Risk of collapse of excavations:</u></b>   |   |    |      |   |  |
| 7  | Sides of trench and hole excavations not exceeding 1,5m deep.   | m2 | 198  |   |  |
| 8  | Ditto, but from ground level to exceeding 1,5m.   | m2 | 126  |   |  |
| <b><u>Keeping excavations free of water:</u></b>   |   |    |      |   |  |
| 9  | Keeping excavations free from mud and all water including subterranean sources.                                 |    | Item |   |  |
| <b><u>EARTH FILLING, ETC.</u></b>  |   |    |      |   |  |
| <b><u>Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:</u></b> |   |    |      |   |  |
| 10   | Backfilling to trenches, holes, etc.  | m3 | 2    |   |  |
| 11   | Under floors, steps, pavings, trenches, etc.  | m3 | 14   |   |  |
| <b>Carried to Collection</b>   |   |    |      | R |  |
| Section 2<br>Bill No. 1<br>Earthworks (Provisional)  |   |    |      |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|   |   |    |     |   |  |
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|   | <b><u>Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to trenches, holes, etc.</u></b> |    |     |   |  |
| 12  | Under floors, steps, pavings, trenches, etc.  | m3 | 67  |   |  |
|   | <b><u>Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to holes, trenches etc.</u></b>  |    |     |   |  |
| 13  | Under floors, steps, pavings, trenches, etc.  | m3 | 34  |   |  |
| 14  | Backfilling to holes, trenches, etc.  | m3 | 34  |   |  |
|   | <b><u>Coarse river sand filling supplied by the contractor:</u></b>   |    |     |   |  |
| 15  | Under floors etc.   | m3 | 8   |   |  |
|   | <b><u>Compaction of surfaces:</u></b>   |    |     |   |  |
| 16  | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.    | m2 | 148 |   |  |
|   | <b><u>Prescribed density tests on filling:</u></b>  |    |     |   |  |
| 17  | Allow for compaction tests by an approved laboratory to determine density of filling material.  | No | 37  |   |  |
| <b>Carried to Collection</b>                        |   |    |     | R |  |
| Section 2<br>Bill No. 1<br>Earthworks (Provisional) |   |    |     |   |  |



**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Cost of tests:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> |          |      |        |
|         | <b>Carried to Collection</b>  |          | R    |        |
|         | Section 2   |          |      |        |
|         | Bill No. 2  |          |      |        |
|         | Concrete, Formwork and Reinforcement  |          |      |        |

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|  | <p><u>Formwork:</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.</p> |  |   |  |  |
|  | <p style="text-align: right;"><b>Carried to Collection</b></p>  |  | R |  |  |
|  | <p>Section 2<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>  |  |   |  |  |

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| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b> |  |    |  |   |  |
| <b><u>15Mpa/19mm Concrete</u></b>                                   |  |    |  |   |  |
| 1   | Surface blinding under footings and bases. m3                                      | 4  |  |   |  |
| <b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>   |  |    |  |   |  |
| <b><u>30MPa/20mm concrete:</u></b>                                  |  |    |  |   |  |
| 2   | Strip footings to walls. m3  | 15 |  |   |  |
| <b><u>REINFORCED CONCRETE</u></b>                                   |  |    |  |   |  |
| <b><u>30MPa/20mm concrete:</u></b>                                  |  |    |  |   |  |
| 3   | Surface beds on waterproofing. m3  | 15 |  |   |  |
| 4   | Suspended Slabs. m3  | 10 |  |   |  |
| 5   | Ground base slabs. m3  | 11 |  |   |  |
| 6   | Cavity walls. m3   | 14 |  |   |  |
| <b><u>TEST BLOCKS</u></b>   |  |    |  |   |  |
| <b><u>Test blocks:</u></b>  |  |    |  |   |  |
| 7   | Making and testing of 150x150x150mm concrete strength test cubes (Provisional). No | 24 |  |   |  |
| <b>Carried to Collection</b>  |  |    |  | R |  |
| Section 2   |  |    |  |   |  |
| Bill No. 2  |  |    |  |   |  |
| Concrete, Formwork and Reinforcement                                |  |    |  |   |  |

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|--|---|----|-----|--|--|--|--|
| <b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>  |   |    |     |  |  |  |  |
| <b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>                 |   |    |     |  |  |  |  |
| 8  | Surface beds, suspended slabs, ground slabs, etc.                                       | m2 | 239 |  |  |  |  |
| <b><u>Finishing top surfaces of concrete smooth with a steel float:</u></b>                |   |    |     |  |  |  |  |
| 9  | Surface beds, suspended slabs, etc.   | m2 | 49  |  |  |  |  |
| <b><u>Charmfers at corners</u></b>   |   |    |     |  |  |  |  |
| 10   | 19 x 19mm triangular fillet at corners formed of unreinforced concrete steel trowelled. | m  | 51  |  |  |  |  |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>                                      |   |    |     |  |  |  |  |
| <b><u>Rough Formwork to Sides:</u></b>   |   |    |     |  |  |  |  |
| 11   | Edges, risers, ends and reveals not exceeding 300mm high or wide.                       | m  | 54  |  |  |  |  |
| <b><u>Permanent Formwork:</u></b>  |   |    |     |  |  |  |  |
| 12   | Soffit of slab over pit.  | m2 | 49  |  |  |  |  |
| <b><u>Extra on permanent formwork for boxing or blocking in or boxing out to form:</u></b> |   |    |     |  |  |  |  |
| 13   | 835mm diameter circular opening through 370mm thick slab.                               | No | 6   |  |  |  |  |
| 14   | 450mm Diameter opening through 255mm thick slab.  | No | 6   |  |  |  |  |
| 15   | 200mm Diameter opening through 255mm thick slab.  | No | 4   |  |  |  |  |
| 16   | 150mm Diameter opening through 255mm thick slab.  | No | 4   |  |  |  |  |
| <b>Carried to Collection</b>   |   |    |     |  |  |  |  |
| Section 2  |   |    |     |  |  |  |  |
| Bill No. 2   |   |    |     |  |  |  |  |
| Concrete, Formwork and Reinforcement   |   |    |     |  |  |  |  |
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Section 2  
Bill No. 2  
Concrete, Formwork and Reinforcement

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Hollow walls etc</u></b></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.</p> |          |      |        |
|         | <b>Carried to Collection</b>   |          | R    |        |
|         | <p>Section 2</p> <p>Bill No. 3</p> <p>Masonry</p>  |          |      |        |

|  |   |  |   |  |
|--|---|--|---|--|
|  | <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>Samples</u></b></p> <p>Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site</p> <p><b><u>Trade names</u></b></p> <p>Where trade names are specified it will read "or equal approved"</p> <p><b><u>BRICKWORK IN FOUNDATIONS</u></b><br/><b><u>(PROVISIONAL)</u></b></p> <p><b><u>Brickwork consisting of solid bricks with 10.5 MPa minimum nominal compressive strength in Class I mortar with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in mortar mix (Cement to be 42.5N all-purpose cement):</u></b></p> <p>1 One brick walls. m2 44</p> <p>2 345mm thick cavity brick walls made of two leafs of 110mm wall with 135mm concrete fill (concrete elsewhere measured). m2 50</p> <p><b><u>BRICKWORK AND BLOCKWORK SUNDRIES</u></b></p> <p><b><u>Galvanized brickwork reinforcement</u></b></p> <p>3 115mm Wide reinforcement built in horizontally m 269</p> <p>4 230mm Wide reinforcement built in horizontally. m 481</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 2<br/>Bill No. 3<br/>Masonry</p> |  |   |  |
|  |   |  | R |  |
|  |   |  |   |  |

# EKUPHUMLENI PRIMARY SCHOOL

Section 2  
Bill No. 3  
Masonry

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|                                    |  |   |    |  |  |
|------------------------------------|--|---|----|--|--|
|                                    | <b><u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u></b> |   |    |  |  |
| 15                                 | 220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.                                   | m | 19 |  |  |
| 16                                 | 220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.   | m | 22 |  |  |
| <b>Carried to Collection</b>       |  |   |    |  |  |
| Section 2<br>Bill No. 3<br>Masonry |  |   |    |  |  |
|                                    |  |   |    |  |  |

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 4</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions:</u></b></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><b><u>Waterproofing</u></b></p> <p>Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc</p> |          |      |        |
|         | <b>Carried to Collection</b>  |          | R    |        |
|         | <p>Section 2</p> <p>Bill No. 4</p> <p>Waterproofing</p>   |          |      |        |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |  |  |   |  |  |
|--|--|--|---|--|--|
|  | <p>Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).</p> <p>The product and its methodology for application must be approved by Principal Agent before it is used.</p> <p>It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.</p> <p>Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.</p> <p>Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.</p> |  |   |  |  |
|  | <p style="text-align: right;"><b>Carried to Collection</b></p>   |  | R |  |  |
|  | <p>Section 2<br/>Bill No. 4<br/>Waterproofing</p>  |  |   |  |  |

|  |   |    |     |  |
|--|---|----|-----|--|
| <b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>   |   |    |     |  |
| <b><u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></b> |   |    |     |  |
| 1  | Under surface beds, bases, etc.   | m2 | 148 |  |
| <b><u>One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u></b>                       |   |    |     |  |
| 2  | Below walls, sills, etc.  | m2 | 9   |  |
| <b><u>JOINT SEALANTS ETC</u></b>   |   |    |     |  |
| <b><u>Clear Neutral silicone sealant:</u></b>  |   |    |     |  |
| 3  | In joint sealing and pointing all round external window and door frames.  | m  | 142 |  |
| <b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>                  |   |    |     |  |
| 4  | 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional). | m  | 272 |  |
| <b><u>WATERPROOFING TO PIT WALLS</u></b>   |   |    |     |  |
| <b><u>Waterproofing product to plastered walls, subject to approval by the Principal Agent prior to application.</u></b>     |   |    |     |  |
| 5  | On plastered wall surfaces including 100mm overlap at the base slab   | m2 | 105 |  |
| <b>Carried to Collection</b>   |   |    | R   |  |
| Section 2<br>Bill No. 4<br>Waterproofing   |   |    |     |  |



| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 5</u></b></p> <p><b><u>ROOF COVERINGS</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Flashings</u></b></p> <p>Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side</p> |          |      |        |
|         | <b>Carried to Collection</b>  |          | R    |        |
|         | Section 2<br>Bill No. 5<br>Roof Coverings Etc.  |          |      |        |

|  |  |  |                                     |  |  |
|--|--|--|-------------------------------------|--|--|
|  | <p><b><u>Quality Assurance</u></b></p> <p>The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System</p> <p><b><u>Guarantee</u></b></p> <p>Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.</p> <p><b><u>Safety</u></b></p> <p>The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity</p> <p><b><u>Handling and Storage</u></b></p> <p>The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction</p> |  |                                     |  |  |
|  | <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 2<br/>Bill No. 5<br/>Roof Coverings Etc.</p>   |  | <p style="text-align: right;">R</p> |  |  |

|  |  |  |   |  |
|--|--|--|---|--|
|  | <p><b><u>Inspection Prior to Installation or Erection</u></b></p> <p>Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:</p> <ul style="list-style-type: none"> <li>a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted</li> <li>b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances</li> <li>c. The corners of the roof are square and the wall framework is perpendicular or as specified</li> <li>d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework</li> <li>e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square</li> <li>f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided</li> <li>g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding</li> </ul> <p><b><u>Protrusion through Sheeted Surfaces</u></b></p> <p>Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation</p> <p><b><u>Cleaning of Roofs, etc</u></b></p> <p>All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 2<br/>Bill No. 5<br/>Roof Coverings Etc.</p> |  |   |  |
|  |  |  | R |  |



Section 2  
Bill No. 5  
Roof Coverings Etc.

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

| Item No |  | Quantity | Rate | Amount |  |
|---------|--|----------|------|--------|--|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 6</u></b></p> <p><b><u>CARPENTRY &amp; JOINERY</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>FIXING</u></b></p> <p>All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.</p> |          |      |        |  |
|         | <b>Carried to Collection</b>   |          | R    |        |  |
|         | <p>Section 2<br/>Bill No. 6<br/>Carpentry and Joinery</p>  |          |      |        |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |   |    |     |   |  |
|--|---|----|-----|---|--|
| <b><u>CARPENTRY</u></b>                                      |   |    |     |   |  |
| <b><u>Sawn softwood:</u></b>                                 |   |    |     |   |  |
| 1  | 38 x 152mm Wall plate.  | m  | 57  |   |  |
| 2  | 50 x 76mm Purlins.  | m  | 346 |   |  |
| 3  | 50 x 76mm Bracing.  | m  | 74  |   |  |
| 4  | 38 x 152mm Rafters.   | m  | 173 |   |  |
| <b><u>Sundries:</u></b>                                      |   |    |     |   |  |
| 5  | TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).  | No | 185 |   |  |
| <b><u>EAVES, VERGES, ETC</u></b>                             |   |    |     |   |  |
| <b><u>"Everite Nutec" or equal approved fibre cement</u></b> |   |    |     |   |  |
| 6  | 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.                   | m  | 28  |   |  |
| 7  | 85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc. | m  | 27  |   |  |
| <b>Carried to Collection</b>                                 |   |    |     | R |  |
| Section 2  |   |    |     |   |  |
| Bill No. 6   |   |    |     |   |  |
| Carpentry and Joinery  |   |    |     |   |  |

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 7</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Keys/Locks</u></b></p> <p>Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys</p> <p><b><u>Trade Names</u></b></p> <p>Where trade names are specified other ironmongery approved by the Principal Agent may be used</p> <p><b><u>Fixing</u></b></p> <p>Fixing of ironmongery is deemed to be fixed to timber unless otherwise described</p> |          |      |        |
|         | <b>Carried to Collection</b>  |          | R    |        |
|         | Section 2<br>Bill No. 7<br>Ironmongery  |          |      |        |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|   |   |       |      |   |  |
|---|---|-------|------|---|--|
| <b><u>HINGES:</u></b>   |   |       |      |   |  |
| 1   | 75 x 100mm Brass Medium duty ball bearing HMP butt hinges.                                    | Pairs | 28.0 |   |  |
| <b><u>LOCKS</u></b>   |   |       |      |   |  |
| 2   | "UNION 2277-78SS" or equal approved three lever sash mortice lockset.                         | No    | 6    |   |  |
| 3   | "UNION w/c indicator bolt satin chrome - Code CZ80941SC                                       | No    | 22   |   |  |
| <b><u>HANDLES</u></b>   |   |       |      |   |  |
| 4   | "Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing. | No    | 14   |   |  |
| <b><u>Sundries:</u></b>   |   |       |      |   |  |
| 5   | Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.                     | No    | 8    |   |  |
| 6   | 38mm Diameter black rubber door stop plugged and screwed to wall.                             | No    | 18   |   |  |
| <b><u>SIGN PLATES:</u></b>  |   |       |      |   |  |
| <b><u>All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.</u></b> |   |       |      |   |  |
| 7   | Sign plate plugged and screwed to walls with chromium plated dome headed screws.              | No    | 8    |   |  |
| <b>Carried to Collection</b>  |   |       |      | R |  |
| Section 2   |   |       |      |   |  |
| Bill No. 7  |   |       |      |   |  |
| Ironmongery   |   |       |      |   |  |

Section 2  
Bill No. 7  
Ironmongery

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

| Item No |   | Quantity | Rate | Amount |  |
|---------|---|----------|------|--------|--|
|         | <p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 8</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>Quantity Split:</u></b></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - Renovations to existing ablutions<br/>A1 - DWG 05 - Staff ablutions<br/>A6 - DWG 10 - Male ablutions<br/>AD - DWG 07 - Grade R ablutions</p> <p><u>Note:</u></p> <p>For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent</p> |          |      |        |  |
|         | <b>Carried to Collection</b>  |          | R    |        |  |
|         | Section 2   |          |      |        |  |
|         | Bill No. 8  |          |      |        |  |
|         | Metalwork   |          |      |        |  |

## ALUMINIUM WINDOWS

All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA.

All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction.

All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.

**Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:**

|   |   |
|---|---|
| 1 | Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01. |
|---|---|

No

32

**Carried to Collection**

R

Section 2  
Bill No. 8  
Metalwork

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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[illegible]

Section 3  
Bill No. 1  
External Works

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|   |   |    |     |  |  |
|---|---|----|-----|--|--|
|   | <u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u>   |    |     |  |  |
| 5   | Paving to walkway areas, etc laid to falls.<br><br><b><u>Kerbing</u></b><br><br><u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.</u> | m2 | 207 |  |  |
| 6   | Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.  | m  | 55  |  |  |
| 7   | Ditto but circular on plan.   | m  | 5   |  |  |
| <b>Carried to Collection</b>              |   |    |     |  |  |
| Section 3<br>Bill No. 1<br>External Works |   |    |     |  |  |
|   |   |    |     |  |  |

|    |   |    |    |   |  |
|----|---|----|----|---|--|
|    | <b><u>THE FOLLOWING IN ONE BRICK WALL<br/>(GARDEN WALL)</u></b>   |    |    |   |  |
|    | <u>Excavation in earth not exceeding 2m deep:</u>   |    |    |   |  |
| 8  | Trenches.   | m3 | 33 |   |  |
|    | <u>Extra over all excavations for carting away:</u>   |    |    |   |  |
| 9  | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.   | m3 | 17 |   |  |
|    | <u>Risk of collapse of excavations:</u>   |    |    |   |  |
| 10 | Sides of trench and hole excavations not exceeding 1,5m deep.   | m2 | 95 |   |  |
|    | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>   |    |    |   |  |
| 11 | Backfilling to trenches, holes, etc.  | m3 | 16 |   |  |
|    | <u>Filling supplied by the contractor under strip footing</u>   |    |    |   |  |
| 12 | G7 Base course material compacted to 98% Mod AASHTO density   | m3 | 7  |   |  |
| 13 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.  | m3 | 7  |   |  |
|    | <u>Compaction of surfaces</u>   |    |    |   |  |
| 14 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. | m2 | 47 |   |  |
|    | <u>25 Mpa/19mm Concrete</u>   |    |    |   |  |
| 15 | Strip footings.   | m3 | 9  |   |  |
|    | <b>Carried to Collection</b>  |    |    | R |  |
|    | Section 3   |    |    |   |  |
|    | Bill No. 1  |    |    |   |  |
|    | External Works  |    |    |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|    |   |    |      |   |  |
|----|---|----|------|---|--|
|    | <u>Test blocks:</u>   |    |      |   |  |
| 16 | Making and testing of 150x150x150mm concrete strength test cubes (Provisional).   | No | 6    |   |  |
|    | <u>Reinforcement (Provisional)</u>  |    |      |   |  |
| 17 | High tensile steel reinforcement bars to structural concrete work.  | t  | 1.13 |   |  |
|    | <u>BRICKWORK IN FOUNDATIONS.</u>  |    |      |   |  |
|    | <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>   |    |      |   |  |
| 18 | One brick walls.  | m2 | 34   |   |  |
|    | <u>Brickwork reinforcement:</u>   |    |      |   |  |
| 19 | 230mm Wide reinforcement built in horizontally.   | m  | 166  |   |  |
| 20 | Ditto but in foundations.   | m  | 67   |   |  |
|    | <u>FACE BRICK</u>   |    |      |   |  |
|    | <u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u> |    |      |   |  |
| 21 | One brickwall faced on both sides.  | m2 | 34   |   |  |
|    | <u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>   |    |      |   |  |
| 22 | 230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.   | m  | 67   |   |  |
|    | <b>Carried to Collection</b>  |    |      | R |  |
|    | Section 3   |    |      |   |  |
|    | Bill No. 1  |    |      |   |  |
|    | External Works  |    |      |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|    |  |    |    |   |  |
|----|--|----|----|---|--|
|    | <b><u>STORMWATER CHANNELS</u></b>  |    |    |   |  |
|    | <u>Excavation not exceeding 2m deep</u>  |    |    |   |  |
| 23 | Reducing levels and depositing excavated material in prescribed stock piles on site.   | m3 | 21 |   |  |
|    | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>  |    |    |   |  |
| 24 | Off site to a dumping site to be found by the Contractor.  | m3 | 21 |   |  |
|    | <u>Filling supplied by the contractor under channels</u>   |    |    |   |  |
| 25 | G7 Base course material compacted to 98% Mod AASHTO density  | m3 | 7  |   |  |
| 26 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.   | m3 | 7  |   |  |
|    | <u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u> |    |    |   |  |
| 27 | 700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.   | m  | 61 |   |  |
| 28 | Extra for 700mm angle  | No | 4  |   |  |
| 29 | Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.  | No | 4  |   |  |
|    | <b>Carried to Collection</b>   |    |    | R |  |
|    | Section 3  |    |    |   |  |
|    | Bill No. 1   |    |    |   |  |
|    | External Works   |    |    |   |  |

Section 3  
Bill No. 1  
External Works

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|    |   |    |      |   |  |
|----|---|----|------|---|--|
|    | <u>Test blocks:</u>   |    |      |   |  |
| 38 | Making and testing of 150x150x150mm concrete strength test cubes (Provisional).   | No | 6    |   |  |
|    | <u>Reinforcement (Provisional)</u>  |    |      |   |  |
| 39 | High tensile steel reinforcement bars to structural concrete work.  | t  | 0.17 |   |  |
|    | <u>BRICKWORK IN FOUNDATIONS.</u>  |    |      |   |  |
|    | <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>   |    |      |   |  |
| 40 | One brick walls.  | m2 | 5    |   |  |
|    | <u>BRICKWORK IN SUPERSTRUCTURE</u>  |    |      |   |  |
|    | <u>Brickwork reinforcement:</u>   |    |      |   |  |
| 41 | 230mm Wide reinforcement built in horizontally.   | m  | 21   |   |  |
| 42 | Ditto but in foundations.   | m  | 41   |   |  |
|    | <u>FACE BRICK</u>   |    |      |   |  |
|    | <u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u> |    |      |   |  |
| 43 | One brickwall faced on both sides.  | m2 | 5    |   |  |
|    | <u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>   |    |      |   |  |
| 44 | 230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.   | m  | 10   |   |  |
|    | <b>Carried to Collection</b>  |    |      | R |  |
|    | Section 3   |    |      |   |  |
|    | Bill No. 1  |    |      |   |  |
|    | External Works  |    |      |   |  |

# EKUPHUMLENI PRIMARY SCHOOL

## ACCESS RAMPS

Excavation not exceeding 2m deep

|    |  |
|----|--|
| 45 | Reducing levels and depositing excavated material in prescribed stock piles on site. |
|----|--|

m3

5

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

46 Off site to a dumping site to be found by the Contractor.

m3

5

Filling supplied by the contractor under floors, aprons,  
etc

|    |   |
|----|---|
| 47 | G7 Base course material compacted to 98% Mod AASHTO density |
|----|---|

m3

2

|    |  |
|----|--|
| 48 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. |
|----|--|

m3

2

Coarse river sand filling supplied by the contractor:

|    |                   |
|----|-------------------|
| 49 | Under floors etc. |
|----|-------------------|

m3

1

### Compaction of surfaces:

|    |  |
|----|--|
| 50 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. |
|----|--|

m2

10

Prescribed density tests on filling:

51 | In-situ dry density test.

No

2

Reinforced 25Mpa/19mm Concrete:

|    |                       |
|----|-----------------------|
| 52 | Ramps, Landings, etc. |
|----|-----------------------|

m3

10

Finishing top surfaces of concrete smooth with a wood float:

53 Surface beds, slabs, etc to falls and currents.

m2

10

**Carried to Collection**

R

Section 3  
Bill No. 1  
External Works

# EKUPHUMLENI PRIMARY SCHOOL

## THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

[illegible]

| THE FOLLOWING IN ACCESS DRIVEWAY, ETC.    |  |    |     |  |  |  |
|---|--|----|-----|--|--|--|
|   | <u>Excavation not exceeding 2m deep</u>  |    |     |  |  |  |
| 59  | Reducing levels and depositing excavated material in prescribed stock piles on site.   | m3 | 109 |  |  |  |
|   | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>                  |    |     |  |  |  |
| 60  | Off site to a dumping site to be found by the Contractor.  | m3 | 109 |  |  |  |
|   | <u>Filling supplied by the contractor under driveways</u>  |    |     |  |  |  |
| 61  | G7 Base course material compacted to 98% Mod AASHTO density  | m3 | 36  |  |  |  |
| 62  | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. | m3 | 36  |  |  |  |
|   | <u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>  |    |     |  |  |  |
| 63  | Under floors,etc.  | m2 | 242 |  |  |  |
|   | <u>Prescribed density tests on filling:</u>  |    |     |  |  |  |
| 64  | In-situ dry density test.  | No | 3   |  |  |  |
|   | <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u> |    |     |  |  |  |
| 65  | Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.   | m2 | 242 |  |  |  |
|   | <u>150-175mm diameter bollards</u>   |    |     |  |  |  |
| 66  | 2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.  | No | 25  |  |  |  |
| <b>Carried to Collection</b>              |  |    |     |  |  |  |
| Section 3<br>Bill No. 1<br>External Works |  |    |     |  |  |  |

|   |  |    |    |  |
|---|--|----|----|--|
| <b><u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u></b>   |  |    |    |  |
| <b><u>STORMWATER APRONS</u></b>   |  |    |    |  |
| <u>Excavation not exceeding 2m deep</u>   |  |    |    |  |
| 67  | Reducing levels and depositing excavated material in prescribed stock piles on site.   | m3 | 23 |  |
| <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u> |  |    |    |  |
| 68  | Off site to a dumping site to be found by the Contractor.  | m3 | 23 |  |
| <u>Filling supplied by the contractor under floors, aprons, etc</u>   |  |    |    |  |
| 69  | G7 Base course material compacted to 98% Mod AASHTO density  | m3 | 6  |  |
| 70  | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.   | m3 | 6  |  |
| <u>Coarse river sand filling supplied by the contractor:</u>  |  |    |    |  |
| 71  | Under floors etc.  | m3 | 2  |  |
| <u>Compaction of surfaces:</u>  |  |    |    |  |
| 72  | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. | m2 | 42 |  |
| <u>Prescribed density tests on filling:</u>   |  |    |    |  |
| 73  | In-situ dry density test.  | No | 3  |  |
| <u>Reinforced 25Mpa/19mm Concrete:</u>  |  |    |    |  |
| 74  | Surface beds cast in panels on waterproofing.  | m3 | 4  |  |
| 75  | Edge thickening  | m3 | 3  |  |
| <b>Carried to Collection</b>  |  |    | R  |  |
| Section 3<br>Bill No. 1<br>External Works   |  |    |    |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|                              |   |    |    |   |  |
|------------------------------|---|----|----|---|--|
|                              | <u>Finishing top surfaces of concrete smooth with a wood float:</u>   |    |    |   |  |
| 76                           | Surface beds, slabs, etc to falls and currents.   | m2 | 42 |   |  |
|                              | <u>Test blocks:</u>   |    |    |   |  |
| 77                           | Making and testing of 150x150x150mm concrete strength test cubes (Provisional).   | No | 6  |   |  |
|                              | <u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>                         |    |    |   |  |
| 78                           | 12mm Joints not exceeding 300mm high.   | m  | 28 |   |  |
|                              | <u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>                            |    |    |   |  |
| 79                           | 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.                       | m  | 28 |   |  |
|                              | <u>Fabric reinforcement:</u>  |    |    |   |  |
| 80                           | REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.   | m2 | 42 |   |  |
|                              | <u>Waterproofing under Surface beds</u>   |    |    |   |  |
| 81                           | 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured). | m2 | 42 |   |  |
| <b>Carried to Collection</b> |   |    |    | R |  |
| Section 3                    |   |    |    |   |  |
| Bill No. 1                   |   |    |    |   |  |
| External Works               |   |    |    |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|    |  |    |     |   |  |
|----|--|----|-----|---|--|
|    | <b><u>STORMWATER CHANNELS</u></b>  |    |     |   |  |
|    | <u>Excavation not exceeding 2m deep</u>  |    |     |   |  |
| 82 | Reducing levels and depositing excavated material in prescribed stock piles on site.   | m3 | 68  |   |  |
|    | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>  |    |     |   |  |
| 83 | Off site to a dumping site to be found by the Contractor.  | m3 | 68  |   |  |
|    | <u>Filling supplied by the contractor under channels</u>   |    |     |   |  |
| 84 | G7 Base course material compacted to 98% Mod AASHTO density  | m3 | 21  |   |  |
| 85 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.   | m3 | 21  |   |  |
|    | <u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u> |    |     |   |  |
| 86 | 700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.  | m  | 196 |   |  |
| 87 | Extra for 700mm angle  | No | 3   |   |  |
| 88 | Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.  | No | 3   |   |  |
|    | <b>Carried to Collection</b>   |    |     | R |  |
|    | Section 3  |    |     |   |  |
|    | Bill No. 1   |    |     |   |  |
|    | External Works   |    |     |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|    |  |    |     |   |  |
|----|--|----|-----|---|--|
|    | <u>Sundries:</u>   |    |     |   |  |
| 89 | Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high  | m  | 50  |   |  |
|    | <b><u>THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.</u></b>   |    |     |   |  |
|    | <u>Excavation not exceeding 2m deep</u>  |    |     |   |  |
| 90 | Reducing levels and depositing excavated material in prescribed stock piles on site.   | m3 | 54  |   |  |
|    | <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>  |    |     |   |  |
| 91 | Off site to a dumping site to be found by the Contractor.  | m3 | 54  |   |  |
|    | <u>Filling supplied by the contractor under floors, aprons, channels etc</u>   |    |     |   |  |
| 92 | G7 Base course material compacted to 98% Mod AASHTO density  | m3 | 18  |   |  |
| 93 | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.   | m3 | 18  |   |  |
|    | <u>Coarse river sand filling supplied by the contractor:</u>   |    |     |   |  |
| 94 | Under floors etc.  | m3 | 6   |   |  |
|    | <u>Compaction of surfaces:</u>   |    |     |   |  |
| 95 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. | m2 | 120 |   |  |
|    | <u>Prescribed density tests on filling:</u>  |    |     |   |  |
| 96 | In-situ dry density test.  | No | 3   |   |  |
|    | <u>Reinforced 25Mpa/19mm Concrete:</u>   |    |     |   |  |
| 97 | Surface beds cast in panels on waterproofing.  | m3 | 18  |   |  |
|    | <b>Carried to Collection</b>   |    |     | R |  |
|    | Section 3  |    |     |   |  |
|    | Bill No. 1   |    |     |   |  |
|    | External Works   |    |     |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |   |    |     |  |  |
|--|---|----|-----|--|--|
|  | <u>Finishing top surfaces of concrete smooth with a wood float:</u>                                       |    |     |  |  |
| 98   | Surface beds, slabs, etc to falls and currents.   | m2 | 120 |  |  |
|  | <u>Test blocks:</u>   |    |     |  |  |
| 99   | Making and testing of 150x150x150mm concrete strength test cubes (Provisional).                           | No | 6   |  |  |
|  | <u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>   |    |     |  |  |
| 100  | 12mm Joints not exceeding 300mm high.   | m  | 60  |  |  |
|  | <u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>      |    |     |  |  |
| 101  | 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary. | m  | 60  |  |  |
|  | <u>Fabric reinforcement:</u>  |    |     |  |  |
| 102  | REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.                                       | m2 | 120 |  |  |
| <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 3<br/>Bill No. 1<br/>External Works</p> |   |    |     |  |  |
|  |   |    |     |  |  |
|  |   |    |     |  |  |

Section 3  
Bill No. 1  
External Works

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|     |   |    |     |   |  |
|-----|---|----|-----|---|--|
|     | <u>Test blocks:</u>   |    |     |   |  |
| 111 | Making and testing of 150x150x150mm concrete strength test cubes (Provisional).   | No | 3   |   |  |
|     | <u>Fabric reinforcement:</u>  |    |     |   |  |
| 112 | REF. 395 fabric reinforcement in concrete infill, strip footings.   | m2 | 110 |   |  |
|     | <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>   |    |     |   |  |
| 113 | One brickwalls in foundations   | m2 | 50  |   |  |
| 114 | One brick walls   | m2 | 60  |   |  |
|     | <u>Brickwork reinforcement:</u>   |    |     |   |  |
| 115 | 230mm Wide reinforcement built in horizontally.   | m  | 424 |   |  |
|     | <u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u> |    |     |   |  |
| 116 | Extra over brickwork for face brickwork externally.   | m2 | 60  |   |  |
|     | <u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>   |    |     |   |  |
| 117 | 220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.   | m  | 100 |   |  |
|     | <u>Openings in Walls etc.</u>   |    |     |   |  |
| 118 | Leave or form 32mm weephole through one brick wall  | No | 150 |   |  |
|     | <u>Membranes</u>  |    |     |   |  |
| 119 | "Geofabric filter blanket wrapped around stone with 300mm side and 300mm end laps, including stitching.   | m2 | 120 |   |  |
|     | <b>Carried to Collection</b>  |    |     | R |  |
|     | Section 3   |    |     |   |  |
|     | Bill No. 1  |    |     |   |  |
|     | External Works  |    |     |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|     |  |    |     |   |  |
|-----|--|----|-----|---|--|
|     | <u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u> |    |     |   |  |
| 120 | 19mm Stone.  | m3 | 9   |   |  |
|     | <b><u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u></b>   |    |     |   |  |
|     | <u>Site Clearance, ETC</u>   |    |     |   |  |
| 121 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc   | m2 | 240 |   |  |
|     | <u>Excavation in earth not exceeding 2m deep:</u>  |    |     |   |  |
| 122 | Trenches.  | m3 | 36  |   |  |
|     | <u>Extra over all excavations for carting away:</u>  |    |     |   |  |
| 123 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.  | m3 | 36  |   |  |
|     | <u>Risk of collapse of excavations:</u>  |    |     |   |  |
| 124 | Sides of trench and hole excavations not exceeding 1,5m deep.  | m2 | 144 |   |  |
|     | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>                                      |    |     |   |  |
| 125 | Backfilling to trenches, holes, etc.   | m3 | 14  |   |  |
|     | <u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u> |    |     |   |  |
| 126 | 19mm Stone.  | m3 | 11  |   |  |
|     | <u>Membrane</u>  |    |     |   |  |
| 127 | ""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.   | m2 | 144 |   |  |
|     | <b>Carried to Collection</b>   |    |     | R |  |
|     | Section 3  |    |     |   |  |
|     | Bill No. 1   |    |     |   |  |
|     | External Works   |    |     |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|     |   |    |      |   |  |
|-----|---|----|------|---|--|
|     | <u>Keeping excavations free of water:</u>   |    |      |   |  |
| 128 | Keeping excavations free from mud and all water including subterranean sources.   |    | Item |   |  |
|     | <u>Compaction of surfaces</u>   |    |      |   |  |
| 129 | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. | m2 | 60   |   |  |
|     | <b><u>SOIL DRAINAGE</u></b>   |    |      |   |  |
|     | <u>110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>   |    |      |   |  |
| 130 | 110mm uPVC pipe.  | m  | 120  |   |  |
|     | <u>Extra for:</u>   |    |      |   |  |
| 131 | 110mm Tee.  | No | 3    |   |  |
| 132 | 110mm Y junction.   | No | 2    |   |  |
|     | <b><u>THE FOLLOWING IN SOAKAWAY</u></b>   |    |      |   |  |
|     | <u>Site Clearance, Etc</u>  |    |      |   |  |
| 133 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  | m2 | 7    |   |  |
|     | <u>Excavation in earth not exceeding 2m deep:</u>   |    |      |   |  |
| 134 | Holes   | m3 | 4    |   |  |
|     | <u>Extra over all excavations for carting away</u>  |    |      |   |  |
| 135 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site  | m3 | 4    |   |  |
|     | <b>Carried to Collection</b>  |    |      | R |  |
|     | Section 3   |    |      |   |  |
|     | Bill No. 1  |    |      |   |  |
|     | External Works  |    |      |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|     |   |    |      |   |  |
|-----|---|----|------|---|--|
|     | <u>Risk of collapse of excavations</u>  |    |      |   |  |
| 136 | Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  | m2 | 16   |   |  |
|     | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>  |    |      |   |  |
| 137 | Backfilling to holes  | m3 | 2    |   |  |
|     | <u>Earth filling with stone material supplied by the contractor:</u>  |    |      |   |  |
| 138 | Stone (>63mm).  | m3 | 2    |   |  |
|     | <u>Membranes</u>  |    |      |   |  |
| 139 | "BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.                                    | m2 | 12   |   |  |
|     | <b><u>Keeping excavations free of water</u></b>   |    |      |   |  |
| 140 | Keeping excavations free of all water other than subterranean water   |    | Item |   |  |
|     | <b><u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u></b>   |    |      |   |  |
|     | <u>Excavation in earth not exceeding 2m deep:</u>   |    |      |   |  |
| 141 | Trenches.   | m3 | 24   |   |  |
|     | <u>Extra over all excavations for carting away:</u>   |    |      |   |  |
| 142 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.               | m3 | 24   |   |  |
|     | <u>Risk of collapse of excavations:</u>   |    |      |   |  |
| 143 | Sides of trench and hole excavations not exceeding 1,5m deep.   | m2 | 8    |   |  |
|     | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u> |    |      |   |  |
| 144 | Backfilling to trenches, holes, etc.  | m3 | 11   |   |  |
|     | <b>Carried to Collection</b>  |    |      | R |  |
|     | Section 3   |    |      |   |  |
|     | Bill No. 1  |    |      |   |  |
|     | External Works  |    |      |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|                              |   |    |    |   |  |
|------------------------------|---|----|----|---|--|
|                              | <u>Filling supplied by the contractor under strip footing, floors etc.</u>  |    |    |   |  |
| 145                          | G7 Base course material compacted to 98% Mod AASHTO density   | m3 | 9  |   |  |
| 146                          | Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.  | m3 | 9  |   |  |
|                              | <u>Compaction of surfaces</u>   |    |    |   |  |
| 147                          | Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density. | m2 | 24 |   |  |
|                              | <u>25 Mpa/19mm Concrete</u>   |    |    |   |  |
| 148                          | Strip footings.   | m3 | 7  |   |  |
|                              | <u>25 MPa/19mm Concrete:</u>  |    |    |   |  |
| 149                          | Tank concrete slab.   | m3 | 5  |   |  |
|                              | <u>Test blocks:</u>   |    |    |   |  |
| 150                          | Making and testing of 150x150x150mm concrete strength test cubes (Provisional).   | No | 12 |   |  |
|                              | <u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>                                       |    |    |   |  |
| 151                          | Surface beds, slabs, etc.   | m2 | 24 |   |  |
|                              | <u>Rough Formwork to Sides:</u>   |    |    |   |  |
| 152                          | Edges, risers, ends and reveals not exceeding 300mm high.   | m  | 48 |   |  |
|                              | <u>Allens Meshco Square Mesh Fabric reinforcement:</u>  |    |    |   |  |
| 153                          | Type 617 fabric reinforcement in concrete slabs.  | m2 | 24 |   |  |
| <b>Carried to Collection</b> |   |    |    | R |  |
| Section 3                    |   |    |    |   |  |
| Bill No. 1                   |   |    |    |   |  |
| External Works               |   |    |    |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|     |  |    |     |   |  |
|-----|--|----|-----|---|--|
|     | <u>BRICKWORK IN FOUNDATIONS.</u>   |    |     |   |  |
|     | <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>  |    |     |   |  |
| 154 | One brick walls.   | m2 | 24  |   |  |
|     | <u>BRICKWORK IN SUPERSTRUCTURE</u>   |    |     |   |  |
|     | <u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>   |    |     |   |  |
| 155 | One brick walls.   | m2 | 29  |   |  |
|     | <u>Brickwork reinforcement:</u>  |    |     |   |  |
| 156 | 230mm Wide reinforcement built in horizontally.  | m  | 133 |   |  |
| 157 | Ditto but in foundations.  | m  | 147 |   |  |
|     | <u>FACE BRICK</u>  |    |     |   |  |
|     | <u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2(Cement to be 42.5N all-purpose cement):</u> |    |     |   |  |
| 158 | Extra over brickwork for face brickwork externally.  | m2 | 29  |   |  |
|     | <u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>  |    |     |   |  |
| 159 | 230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.  | m  | 48  |   |  |
|     | <u>Plastic water tanks etc:</u>  |    |     |   |  |
| 160 | 5000 Litre roto molded or equal approved plastic tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.                             | No | 6   |   |  |
|     | <b>Carried to Collection</b>   |    |     | R |  |
|     | Section 3  |    |     |   |  |
|     | Bill No. 1   |    |     |   |  |
|     | External Works   |    |     |   |  |

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|  |   |    |     |   |  |
|--|---|----|-----|---|--|
| 161  | Hole top of tank for 100mm pipe.  | No | 6   |   |  |
| <b><u>THE FOLLOWING IN GRADE R SECURITY FENCING, ETC</u></b>   |   |    |     |   |  |
| <u>Site clearance</u>  |   |    |     |   |  |
| 162  | 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 | 134 |   |  |
| <p>The Contractor is to allow in his rates for any site clearance, preparation of ground, etc. in order to carry out the work successfully.</p> <p><b><u>"Clearvu" or equally approved fencing products to be executed in strict accordance with the Manufacturer's instructions</u></b></p> <p><u>Fencing</u></p> |   |    |     |   |  |
| 163  | High security galvanised, marine fusion bond coated, mesh fencing panel, size 3350 x 1800mm high fixed to posts (elsewhere).  | m  | 100 |   |  |
| <u>Posts</u>   |   |    |     |   |  |
| 164  | 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 | 28  |   |  |
| 165  | 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   |   |  |
| 166  | 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   |   |  |
| <b>Carried to Collection</b>   |   |    |     | R |  |
| Section 3  |   |    |     |   |  |
| Bill No. 1   |   |    |     |   |  |
| External Works   |   |    |     |   |  |

# EKUPHUMLENI PRIMARY SCHOOL

## THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME

|     |  |    |     |   |  |
|-----|--|----|-----|---|--|
|     | <u>Gates</u>   |    |     |   |  |
| 167 | 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>   |    |     |   |  |
| 168 | 100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).   | m  | 100 |   |  |
| 169 | "Union 3122" or other approved 51mm brass padlock with stainless steel shackle.  | No | 1   |   |  |
|     | <u>Sundries</u>  |    |     |   |  |
| 170 | Extra over excavations in earth (concrete bases) for excavation in soft rock.  | m3 | 4   |   |  |
| 171 | Extra over excavations in earth (concrete bases) for excavation in hard rock.  | m3 | 1   |   |  |
|     | <u>PADLOCKS</u>  |    |     |   |  |
| 172 | Supply 50 mm "Viro" Padlocks and Keys (or equal approved )   | No | 2   |   |  |
|     | <b>Carried to Collection</b>   |    |     | R |  |
|     | Section 3<br>Bill No. 1<br>External Works  |    |     |   |  |

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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| Section 3<br><br>Bill No. 1<br><br>External Works<br><br><b><u>COLLECTION</u></b><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br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**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

[illegible]

Section 4  
Bill No. 1  
Provisional Sums

**EKUPHUMLENI PRIMARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

| SMME WORK PACKAGES                          |   |      |   |            |  |
|---|---|------|---|------------|--|
| 6   | Provide the sum of R 170 000.00 (One Hundred and Seventy Thousand Rand ) for alterations.               | Item |   | 170 000.00 |  |
| 7   | Add: Profit   |      | % |            |  |
| 8   | Add: Attendance   |      | % |            |  |
| 9   | Provide the sum of R 77 000.00 (Seventy Seven Thousand Rand ) for masonry.                              | Item |   | 77 000.00  |  |
| 10  | Add: Profit   |      | % |            |  |
| 11  | Add: Attendance   |      | % |            |  |
| 12  | Provide the sum of R 124 000.00 (One Hundred and Twenty Four Thousand Rand ) for carpentry and joinery. | Item |   | 124 000.00 |  |
| 13  | Add: Profit   |      | % |            |  |
| 14  | Add: Attendance   |      | % |            |  |
| 15  | Provide the sum of R 35 000.00 (Thirty Five Thousand Rand) for metalwork.                               | Item |   | 35 000.00  |  |
| 16  | Add: Profit   |      | % |            |  |
| 17  | Add: Attendance   |      | % |            |  |
| 18  | Provide the sum of R 37 000.00 (Thirty Seven Thousand Rand) for plastering.                             | Item |   | 37 000.00  |  |
| 19  | Add: Profit   |      | % |            |  |
| 20  | Add: Attendance   |      | % |            |  |
| 21  | Provide the sum of R 195 000.00 (One Hundred and Ninety Five Thousand Rand) for plumbing and drainage.  | Item |   | 195 000.00 |  |
| 22  | Add: Profit   |      | % |            |  |
| 23  | Add: Attendance   |      | % |            |  |
| 24  | Provide the sum of R 62 000.00 (Sixty Two Thousand Rand) for paintwork.                                 | Item |   | 62 000.00  |  |
| 25  | Add: Profit   |      | % |            |  |
| <b>Carried to Collection</b>                |   |      |   |            |  |
|   |   |      | R |            |  |
| Section 4<br>Bill No. 1<br>Provisional Sums |   |      |   |            |  |

**EKUPHUMLENI PRIMARY SCHOOL**  
**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

|   |   |      |   |            |  |
|---|---|------|---|------------|--|
| 26  | Add: Attendance   |      | % |            |  |
| 27  | Provide the sum of R 208 000.00 (Two Hundred and Eight Thousand Rand) for external works.                   | Item |   | 208 000.00 |  |
| 28  | Add: Profit   |      | % |            |  |
| 29  | Add: Attendance   |      | % |            |  |
| 30  | Provide the sum of R 135 000.00 (One Hundred and Thirty Five Thousand Rand ) for portable chemical toilets. | Item |   | 135 000.00 |  |
| 31  | Add: Profit   |      | % |            |  |
| 32  | Add: Attendance   |      | % |            |  |
| 33  | Provide the sum of R 20 000.00 (Twenty Thousand Rand) for SMME workmanship sample construction.             | Item |   | 20 000.00  |  |
| 34  | Add: Profit   |      | % |            |  |
| 35  | Add: Attendance   |      | % |            |  |
|   |   |      |   |            |  |
| <b>Carried to Collection</b>                |   |      |   | R          |  |
| Section 4<br>Bill No. 1<br>Provisional Sums |   |      |   |            |  |



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**THE MVULA TRUST FLUSH MAINTENANCE PROGRAMME**

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