

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

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

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

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	<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>	Item			
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8	<p>Works risk (Clause 8)</p> <p>F: ..... V: ..... T: .....</p> <p>Indemnities (Clause 9).</p> <p>Clause 9.1.1 is deleted and substituted with:</p> <p>Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.</p>	Item		
9	<p>F: ..... V: ..... T: .....</p> <p>Works insurances (Clause 10).</p>	Item		
10	<p>F: ..... V: ..... T: .....</p> <p>Liability insurances (Clause 11).</p>	Item		
11	<p>F: ..... V: ..... T: .....</p> <p>Effecting insurances (Clause 12).</p>	Item		
12	<p>F: ..... V: ..... T: .....</p> <p>State Provisions (Clause 13).</p>	Item		
13	<p>F: ..... V: ..... T: .....</p> <p>Security (Clause 14).</p>	Item		
14	<p>F: ..... V: ..... T: .....</p> <p><b><u>EXECUTION</u></b></p> <p>Preparation for and execution of the works (Clause 15).</p>	Item		
15	<p>F: ..... V: ..... T: .....</p> <p>Access to the works (Clause 16).</p>	Item		
16	<p>F: ..... V: ..... T: .....</p> <p>Contract instructions (Clause 17).</p>	Item		
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17	<p>F: ..... V: ..... T: .....</p> <p>Setting out of the works (Clause 18.3).</p> <p>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.</p>	Item			
18	<p>F: ..... V: ..... T: .....</p> <p>Assignment (Clause 19).</p>	Item			
19	<p>F: ..... V: ..... T: .....</p> <p>Nominated subcontractors (Clause 20).</p>	Item			
20	<p>F: ..... V: ..... T: .....</p> <p>Selected subcontractors (Clause 21).</p>	Item			
21	<p>F: ..... V: ..... T: .....</p> <p>Employer's Direct contractors (Clause 22).</p>	Item			
22	<p>F: ..... V: ..... T: .....</p> <p>Contractor's Domestic subcontractors (Clause 23).</p>	Item			
23	<p>F: ..... V: ..... T: .....</p> <p><b><u>COMPLETION</u></b></p> <p>Practical completion (Clause 24).</p>	Item			
24	<p>F: ..... V: ..... T: .....</p> <p>Works completion (Clause 25).</p>	Item			
25	<p>F: ..... V: ..... T: .....</p> <p>Final completion (Clause 26).</p>	Item			
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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>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	F: ..... V: ..... T: .....	Item			
	Recovery of expense and loss (Clause 33).				
31	F: ..... V: ..... T: .....	Item			
	Final account and final payment (Clause 34).				
32	F: ..... V: ..... T: .....	Item			
	Payment to other parties (Clause 35).				
33	F: ..... V: ..... T: .....	Item			
	<b><u>CANCELLATION</u></b>				
	Cancellation by Employer - Contractor's default (Clause 36).				
34	F: ..... V: ..... T: .....	Item			
	Cancellation by Employer - Loss and damage (Clause 37).				
35	F: ..... V: ..... T: .....	Item			
	Cancellation by Contractor - Employer's default (Clause 38).				
36	F: ..... V: ..... T: .....	Item			
	Cancellation - Cessation of the works (Clause 39).				
37	F: ..... V: ..... T: .....	Item			
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	<b><u>DISPUTE</u></b>			
	Dispute Settlement (Clause 40)			
38	F: ..... V: ..... T: .....	Item		
	<b><u>SUBSTITUTE PROVISIONS</u></b>			
	State Clauses (Clause 41)			
39	F: ..... V: ..... T: .....	Item		
	<b><u>CONTRACT VARIABLES</u></b>			
	The Schedule: Pre-Tender information (Clause 42).			
40	F: ..... V: ..... T: .....	Item		
	<b><u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u></b>			
	Employer: The Mvula Trust			
	Postal Address: 67 Devereux Avenue, Vincent, East London			
	Telephone: 043 726 2255			
	Facsimile: 043 726 5967			
	Physical address: 67 Devereux Avenue, Vincent, East London			
	Principal Agent: The Mvula Trust			
	Postal Address: 67 Devereux Avenue, Vincent, East London			
	Telephone: 043 726 2255			
	Facsimile: 043 726 5967			
	Physical address: 67 Devereux Avenue, Vincent, East London			
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<p><b><u>CONTRACT DETAILS (Clause 42.2)</u></b></p> <p>Clause 42.2.1</p> <p>Works Description: Construction of new ablution facilities.</p> <p>Clause 42.2.2</p> <p>Site Description: The site is the existing school.</p> <p>Clause 42.2.3</p> <p>Work or Installations by Others: NIL</p> <p>Clause 42.2.4</p> <p>This Agreement is for a State Contract :- Yes</p> <p>Payment will be made for materials and goods:- Yes</p> <p>Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.</p> <p>Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A</p> <p>Clause 42.2.5</p> <p>Date on which possession of the site is intended to be given on :-</p> <p>To be advised.</p> <p>Clause 42.2.6</p> <p>Period for the commencement of the works after the contractor takes possession of the site :- 10 Working days.</p> <p>Completion in Sections are required : NO</p> <p>Clause 42.2.7</p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole :-</p> <p>To be advised.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 1 Bill No. 1 Preliminaries</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>					
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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> <p>41 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> <p>42 F: ..... V: ..... T: .....</p> <p>Provisional Bills of Quantities (B2.2) YES</p>				
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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			
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48	F: ..... V: ..... T: .....  Geotechnical investigation (B3.2)  A desktop geotechnical report is available upon request.	Item		
49	F: ..... V: ..... T: .....  Inspection of the Site (B3.3)	Item		
50	F: ..... V: ..... T: .....  Existing premises occupied (B3.4)	Item		
51	F: ..... V: ..... T: .....  Previous work - dimensional accuracy (B3.5)	Item		
52	F: ..... V: ..... T: .....  Previous work - defects (B3.6)	Item		
53	F: ..... V: ..... T: .....  Services - known (B3.7)	Item		
54	F: ..... V: ..... T: .....  Services - unknown (B3.8)	Item		
55	F: ..... V: ..... T: .....  Protection of trees (B3.9)	Item		
56	F: ..... V: ..... T: .....  Articles of value (B3.10)	Item		
57	F: ..... V: ..... T: .....  Inspection of adjoining properties (B3.11)	Item		
58	F: ..... V: ..... T: .....  <b><u>MANAGEMENT OF CONTRACT (B4)</u></b>  Management of the Works (B4.1)	Item		
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59	F: ..... V: ..... T: .....  Programme for the Works (B4.2)	Item			
60	F: ..... V: ..... T: .....  Progress meetings (B4.3)	Item			
61	F: ..... V: ..... T: .....  Technical meetings (B4.4)	Item			
62	F: ..... V: ..... T: .....  <b><u>SAMPLES AND SHOP DRAWINGS (B5)</u></b>  Samples of materials (B5.1)	Item			
63	F: ..... V: ..... T: .....  Workmanship samples (B5.2)	Item			
64	F: ..... V: ..... T: .....  Shop drawings (B5.3)	Item			
65	F: ..... V: ..... T: .....  <b><u>TEMPORARY WORKS AND PLANT (B6)</u></b>  Deposits and fees (B6.1)	Item			
66	F: ..... V: ..... T: .....  Enclosure of the works (B6.2)  The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.	Item			
67	F: ..... V: ..... T: .....  Advertising (B6.3)	Item			
68	F: ..... V: ..... T: .....	Item			
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69	Plant and equipment (B6.4) F: ..... V: ..... T: .....  Main notice board (B6.5)  One notice board shall be provided by the Contractor	Item			
70	F: ..... V: ..... T: .....  Subcontractors notice board (B6.6) (N/A)	Item			
71	F: ..... V: ..... T: .....  <b><u>TEMPORARY SERVICES (B7)</u></b>  Location (B7.1)	Item			
72	F: ..... V: ..... T: .....  Water (B7.2)  The contractor shall provide water for the works in accordance with:  Alternative A (i.e. to be provided for by the Contractor).	Item			
73	F: ..... V: ..... T: .....  Electricity (B7.3)  The contractor shall provide electricity for the works in accordance with:  Alternative A (i.e. to be provided for by the Contractor).	Item			
74	F: ..... V: ..... T: .....  Telecommunication equipment (B7.4)  The contractor shall provide telephones on site for the works in accordance with:  Alternative A (i.e. to be provided for by the Contractor).	Item			
75	F: ..... V: ..... T: .....	Item			
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	<p>Ablution facilities (B7.5)</p> <p>The contractor shall provide toilet facilities on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p>				
76	<p>F: ..... V: ..... T: .....</p> <p><b><u>PRIME COST AMOUNTS (B8)</u></b></p> <p>Responsibility for prime cost amounts (B8.1)</p>	Item			
77	<p>F: ..... V: ..... T: .....</p> <p><b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b></p> <p>General Attendance (B9.1)</p>	Item			
78	<p>F: ..... V: ..... T: .....</p> <p>Special Attendance (B9.2)</p>	Item			
79	<p>F: ..... V: ..... T: .....</p> <p>Commissioning - fuel, water and power (B9.3)</p>	Item			
80	<p>F: ..... V: ..... T: .....</p> <p><b><u>FINANCIAL ASPECTS (B10)</u></b></p> <p>Statutory taxes, duties and levies (B10.1)</p> <p>Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).</p>	Item			
81	<p>F: ..... V: ..... T: .....</p> <p>Payment of Preliminaries (B10.2)</p>	Item			
82	<p>F: ..... V: ..... T: .....</p> <p>Adjustment of Preliminaries (B10.3)</p>	Item			
83	<p>F: ..... V: ..... T: .....</p> <p>Payment certificate cash flow (B10.4)</p>	Item			
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84	F: ..... V: ..... T: .....  Contractor information supply (B10.5)	Item			
85	F: ..... V: ..... T: .....  <b><u>GENERAL (B11)</u></b> Protection of the Works (B11.1)	Item			
86	F: ..... V: ..... T: .....  Protection/isolation of existing/sectionally occupied works (B11.2)	Item			
87	F: ..... V: ..... T: .....  Site security (B11.3)	Item			
88	F: ..... V: ..... T: .....  Notice before covering work (B11.4)	Item			
89	F: ..... V: ..... T: .....  Disturbance (B11.5)	Item			
90	F: ..... V: ..... T: .....  Works cleaning and clearing (B11.6)	Item			
91	F: ..... V: ..... T: .....  Vermin (B11.7)	Item			
92	F: ..... V: ..... T: .....  Overhand work (B11.8)	Item			
93	F: ..... V: ..... T: .....	Item			
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<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			
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97	<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>	Item		
98	<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>	Item		
	<b>Carried to Collection</b>			R
	<p>Section 1 Bill No. 1 Preliminaries</p>			

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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
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103	<p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p> <p>F: ..... V: ..... T: .....</p> <p><b>C11. Unauthorised Persons/Workmen on Premises</b></p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p>	Item			
104	<p>F: ..... V: ..... T: .....</p> <p><b>C12. Mode of Procedure</b></p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p>	Item			
105	<p>F: ..... V: ..... T: .....</p>	Item			
	<b>Carried to Collection</b>			R	
	<p>Section 1 Bill No. 1 Preliminaries</p>				

	<p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p>				
106	<p>F: ..... V: ..... T: .....</p> <p>C14. Office accommodation</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>C15. Storage Facilities</p>	Item			
108	<p>The Contractor shall provide a Container for storage of materials.</p>	Item			
109	<p>F: ..... V: ..... T: .....</p>	Item			
110	<p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p> <p>F: ..... V: ..... T: .....</p> <p>C17. SMME Management</p>	Item			
	<b>Carried to Collection</b>			R	
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	<p>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.</p>				
111	<p>F: ..... V: ..... T: .....</p> <p>C18. SMME Preliminaries and General</p> <p>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.</p>	Item			
112	<p>F: ..... V: ..... T: .....</p>	Item			
113	<p>SUB - TOTAL: FIXED ITEMS</p>	Item			
114	<p>SUB - TOTAL: VALUE - RELATED ITEMS</p>	Item			
115	<p>SUB - TOTAL: TIME - RELATED ITEMS</p>	Item			
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Section 1 Bill No. 1 Preliminaries				

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><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 1 Bill No. 2 Health and Safety</p>			<p style="text-align: right;">R</p>

<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.	Item		
7	Provision of first aid boxes.	Item		
<b><u>Provision for Personal Protective Equipment and Protective Clothing:</u></b>				
8	Reflective vests.	Item		
9	Hard hats.	Item		
10	Protective foot wear.	Item		
11	Ear Plugs.	Item		
12	Dust Masks.	Item		
<b><u>Costs of Medical Certificates and Medical Surveillance:</u></b>				
13	Initial (baseline) medical examinations.	Item		
14	Exit Examinations.	Item		
<b><u>Noise Monitoring:</u></b>				
15	Establishment of noise zones.	Item		
16	Audiograms.	Item		
<b>Carried to Collection</b>				
Section 1 Bill No. 2 Health and Safety			R	

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Item No		Quantity	Rate	Amount
<b><u>SECTION No. 2 - BUILDING WORKS</u></b>				
<b><u>BILL No. 1</u></b>				
<b><u>ALTERATIONS, DEMOLITIONS, ETC.</u></b>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<b><u>DEMOLITIONS</u></b>				
Reference hereunder to cart away shall mean carting off site to a dumping site to be located by the Contractor.				
<b><u>Demolish and remove</u></b>				
1	170mm Block walls.	m2	10	
2	Rectangular shaped single storey building size approximately 16500 x 4500mm on plan and approximately 3000mm high at eaves, comprising of foundations, a concrete surface bed, face/plastered brick external and plastered internal walls, timber double pitched roof structure with steel sheet roof covering and carting away to a dumping site to be located by the Contractor .	No	1	
<b><u>CARPENTRY AND JOINERY</u></b>				
<u>Timber doors and frames</u>				
3	Take out from one brick wall and cart away single timber door and frame size 813mm wide x 1800mm high.	No	4	
4	Take out from half brick wall and cart away single timber door and frame size 813mm wide x 1800mm high.	No	10	
<b><u>METALWORK</u></b>				
<b>Carried to Collection</b>				R
Section 2 Bill No. 1 Alterations				

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	<u>Burglar screens</u>				
5	Take out from brickwork and cart away, steel burglar screen size 900 x 2100mm high.	No	4		
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	<u>Piping, fittings, etc.</u>				
6	Take off from walls, ceilings, etc. and cart away copper/polycrop water supply piping, fittings, valves, etc. of various diameters including temporary stopping of supply where necessary.	m	50		
7	Take off from walls, ceilings, etc. and cart away PVC waste water piping and fittings of various diameters.	m	30		
	<u>Sanitaryware</u>				
8	Demolish and cart away white glazed WC pan and cistern complete including stopping off water supply.	No	12		
	<u>Sundries</u>				
9	Take down and cart away toilet roll holders.	No	12		
	<b>Carried to Collection</b>			R	
	Section 2				
	Bill No. 1				
	Alterations				

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Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION 3</u></b></p> <p><b><u>BILL No. 2</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:  A1 - DWG 05 - Staff Ablutions  A2 - DWG 09 - Female Ablutions  A3 - DWG 11 - Male Ablutions  A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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>				
	Section 2 Bill No. 2 Earthworks (Provisional)		R		

<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 oukkip 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 style="text-align: center;"><b>Carried to Collection</b></p>		<p style="text-align: center;">R</p>	
<p>Section 2                  Bill No. 2                  Earthworks (Provisional)</p>				

<b><u>EXCAVATION OTHER THAN BULK</u></b>					
<b><u>Excavation in earth not exceeding 2m deep:</u></b>					
1	Trenches. A1 : 28    A2 : 26    A3 : 25    A4 : 27	m3	106		
2	Reducing levels and depositing excavated material in prescribed stock piles on site. A1 : 11    A2 : 10    A3 : 9    A4 : 8	m3	38		
<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>					
3	Soft rock. A1 : 5    A2 : 5    A3 : 5    A4 : 4	m3	19		
4	Hard rock. A1 : 2    A2 : 1    A3 : 1    A4 : 1	m3	5		
<b><u>Extra over all excavations for carting away:</u></b>					
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. A1 : 16    A2 : 12    A3 : 13    A4 : 9	m3	50		
<b><u>Risk of collapse of excavations:</u></b>					
6	Sides of trench and hole excavations not exceeding 1,5m deep. A1 : 74    A2 : 70    A3 : 70    A4 : 72	m2	286		
<b><u>Keeping excavations free of water:</u></b>					
7	Keeping excavations free from mud and all water including subterranean sources.			Item	
<b>Carried to Collection</b>					
Section 2 Bill No. 2 Earthworks (Provisional)				R	

	<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>				
8	Backfilling to trenches, holes, etc. A1 : 16      A2 : 13      A3 : 12      A4 : 9	m3	50		
	<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>				
9	Under floors, etc. A1 : 12      A2 : 9      A3 : 8      A4 : 7	m3	36		
	<b><u>Coarse river sand filling supplied by the contractor:</u></b>				
10	Under floors etc. A1 : 6      A2 : 4      A3 : 4      A4 : 5	m3	19		
	<b><u>Compaction of surfaces:</u></b>				
11	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. A1 : 34      A2 : 25      A3 : 29      A4 : 30	m2	118		
	<b><u>Prescribed density tests on filling:</u></b>				
12	Allow for compaction tests by an approved laboratory to determine density of filling material. A1 : 3      A2 : 3      A3 : 3      A4 : 3	No	12		
	<b><u>SOIL POISONING</u></b>				
	<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u></b>				
13	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming. A1 : 34      A2 : 29      A3 : 25      A4 : 30	m2	118		
14	To bottoms and sides of trenches, holes, etc. A1 : 103      A2 : 87      A3 : 84      A4 : 88	m2	362		
	<b>Carried to Collection</b>				
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Section 2 Bill No. 2 Earthworks (Provisional)				

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL No. 3</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:  A1 - DWG 05 - Staff Ablutions  A2 - DWG 09 - Female Ablutions  A3 - DWG 11 - Male Ablutions  A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 2  Bill No. 3  Concrete, Formwork and Reinforcement</p>				
			R		

<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>					
<b>Carried to Collection</b>					R
Section 2 Bill No. 3 Concrete, Formwork and Reinforcement					

	<p><b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p> <p><b><u>15Mpa/19mm Concrete</u></b></p>				
1	<p>Surface blinding under footings and bases. A1 : 1      A2 : 1      A3 : 1      A4 : 1</p>	m3	4		
	<p><b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p> <p><b><u>30MPa/20mm concrete:</u></b></p>				
2	<p>Strip footing to walls. A1 : 17      A2 : 6      A3 : 5      A4 : 5</p>	m3	33		
3	<p>Surface beds on waterproofing. A1 : 4      A2 : 3      A3 : 3      A4 : 3</p>	m3	13		
	<p><b><u>TEST BLOCKS</u></b></p> <p><b><u>Test blocks:</u></b></p>				
4	<p>Making and testing of 150x150x150mm concrete strength test cubes (Provisional). A1 : 3      A2 : 3      A3 : 3      A4 : 3</p>	No	12		
	<p><b><u>FINISHING TOP SURFACE OF CONCRETE</u></b></p> <p><b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b></p>				
5	<p>Surface beds, suspended slabs, ground slabs, etc. A1 : 34      A2 : 29      A3 : 25      A4 : 30</p>	m2	118		
	<p><b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b></p> <p><b><u>Rough Formwork to Sides:</u></b></p>				
6	<p>Edges, risers, ends and reveals not exceeding 300mm high or wide. A1 : 27      A2 : 21      A3 : 24      A4 : 24</p>	m	96		
	<p style="text-align: center;"><b>Carried to Collection</b></p>				
	<p>Section 2 Bill No. 3 Concrete, Formwork and Reinforcement</p>				R

	<p><b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b></p> <p><b><u>Smooth Formwork to Sides:</u></b></p> <p>7 Edges, risers, ends and reveals not exceeding 300mm high or wide. m2 45 A1 : 18 A2 : 8 A3 : 8 A4 : 11</p> <p><b><u>MOVEMENT JOINTS ETC</u></b></p> <p><b><u>Two layers of 375 micron damp proof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed (Provisional)</u></b></p> <p>8 Not exceeding 300mm wide. m 96 A1 : 30 A2 : 25 A3 : 15 A4 : 26</p> <p><b><u>Saw cut joints:</u></b></p> <p>9 6 x 40mm Saw cut joints in top of concrete (Provisional). m 64 A1 : 16 A2 : 16 A3 : 16 A4 : 16</p> <p><b><u>REINFORCEMENT (PROVISIONAL)</u></b></p> <p>10 High tensile steel reinforcement bars to structural concrete work. t 1.00 A1 : 0.30 A2 : 0.30 A3 : 0.20 A4 : 0.20</p> <p><b><u>Fabric reinforcement:</u></b></p> <p>11 REF. 245 fabric reinforcement in concrete surface beds, raft slabs etc. m2 118 A1 : 34 A2 : 29 A3 : 25 A4 : 30</p>			
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 2 Bill No. 3 Concrete, Formwork and Reinforcement</p>		R	

**ZANEMPUCUKO SENIOR SECONDARY SCHOOL  
THE MVULA TRUST FLUSH MAINTENCE PROGRAMME**

<p>Section 2</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p>	<p><b>Page No</b></p> <p>39</p> <p>40</p> <p>41</p> <p>42</p>		<p><b>Amount</b></p> <p>-----</p> <p>-----</p> <p>-----</p> <p>-----</p>	
<p><b>Carried Forward to Summary of Section No. 2</b></p>			<p>R</p>	
<p>Section 2</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement</p>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL No. 4</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:            A1 - DWG 05 - Staff Ablutions            A2 - DWG 09 - Female Ablutions            A3 - DWG 11 - Male Ablutions            A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p>All references to SABS shall be deemed to be the relevant SANS specification</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 "Brixéal" bitumen emulsion waterproofing coating.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 2 Bill No. 4 Masonry</p>			<p style="text-align: right;">R</p>

<p><b>Face bricks</b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b>Pointing</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>Samples</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>Trade names</b></p> <p>Where trade names are specified it will read "or equal approved"</p>	<p style="text-align: center;"><b>Carried to Collection</b></p>		<p style="text-align: center;">R</p>	<table border="1" style="width: 100%; height: 100%;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>				
<p>Section 2                  Bill No. 4                  Masonry</p>								

<p><b><u>BRICKWORK IN FOUNDATIONS</u></b> <b><u>(PROVISIONAL)</u></b></p> <p><b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b></p>					
1	<p>One brick walls. m2 96</p> <p>A1 : 29    A2 : 22    A3 : 24    A4 : 21</p>				
<p><b><u>BRICKWORK IN SUPER STRUCTURE</u></b> <b><u>(PROVISIONAL)</u></b></p> <p><b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b></p>					
2	<p>Half brick walls. m2 67</p> <p>A1 : 12    A2 : 21    A3 : 12    A4 : 22</p>				
3	<p>One brick walls. m2 380</p> <p>A1 : 112    A2 : 75    A3 : 100    A4 : 93</p>				
<p><b><u>BRICKWORK AND BLOCKWORK SUNDRIES</u></b></p> <p><b><u>Galvanized brickwork reinforcement</u></b></p>					
4	<p>75mm Wide reinforcement built in horizontally m 198</p> <p>A1 : 35    A2 : 64    A3 : 35    A4 : 64</p>				
5	<p>150mm Wide reinforcement built in horizontally. m 1 114</p> <p>A1 : 329    A2 : 220    A3 : 293    A4 : 272</p>				
6	<p>Ditto, but in foundations (Provisional). m 91</p> <p>A1 : 28    A2 : 18    A3 : 23    A4 : 22</p>				
<p><b><u>Cramps, ties, etc:</u></b></p>					
7	<p>30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. No 69</p> <p>A1 : 20    A2 : 16    A3 : 15    A4 : 18</p>				
<p><b><u>Air bricks etc:</u></b></p>					
8	<p>229 x 152mm terracotta clay vermin proof air brick No 38</p> <p>A1 : 12    A2 : 8    A3 : 8    A4 : 10</p>				
<p style="text-align: center;"><b>Carried to Collection</b></p>					
<p>Section 2 Bill No. 4 Masonry</p>					R

	<b>Samples</b>		Item	
9	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same area (1000x1000mm) to be paved as per given specifications.			
	<b><u>Turning pieces to lintels etc</u></b>			
10	230mm Wide turning pieces A1 : 11      A2 : 8      A3 : 8      A4 : 9	m	36	
	<b><u>FACE BRICK</u></b>			
	<b><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:</u></b>			
11	Extra over brickwork for face brickwork externally. A1 : 85      A2 : 67      A3 : 77      A4 : 76	m2	305	
12	Extra over brickwork for face brickwork internally. A1 : 147      A2 : 138      A3 : 142      A4 : 144	m2	571	
13	Half brick wall in beam filling pointed one side including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar. A1 : 10      A2 : 8      A3 : 9      A4 : 9	m2	36	
	<b><u>Face brick copings, lintels, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces:</u></b>			
14	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. A1 : 7      A2 : 6      A3 : 6      A4 : 7	m	26	
15	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides. A1 : 12      A2 : 7      A3 : 7      A4 : 9	m	35	
	<b>Carried to Collection</b>			R
	Section 2 Bill No. 4 Masonry			

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Section 2  Bill No. 4  Masonry  <u><b>COLLECTION</b></u>  Total Brought Forward from Page No.	<b>Page No</b>  44  45  46  47		<b>Amount</b>  <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>	
<b>Carried Forward to Summary of Section No. 2</b>  Section 2 Bill No. 4 Masonry			R	

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL No. 5</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>A1 - DWG 05 - Staff Ablutions A2 - DWG 09 - Female Ablutions A3 - DWG 11 - Male Ablutions A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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>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 style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 2 Bill No. 5 Waterproofing</p>				
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	Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.				
	<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. A1 : 34    A2 : 29    A3 : 25    A4 : 30	m2	118		
	<b><u>One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u></b>				
2	Below walls, sills, etc. A1 : 16    A2 : 12    A3 : 12    A4 : 14	m2	54		
	<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. A1 : 177    A2 : 120    A3 : 130    A4 : 141	m	568		
	<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). A1 : 16    A2 : 16    A3 : 16    A4 : 16	m	64		
	<b><u>Sundry elements</u></b>				
5	Seal and point around aluminium window frames with an approved external quality sealing compound applied with a pressure caulking gun. A1 : 30    A2 : 20    A3 : 20    A4 : 30	m	100		
6	Seal with an approved anti-fungicidal white silicone sealant junction between sanitary fitting and worktop and/or wall tiling. A1 : 20    A2 : 20    A3 : 20    A4 : 20	m	80		
	<b>Carried to Collection</b>				
	Section 2 Bill No. 5 Waterproofing				R

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<p>Section 2</p> <p>Bill No. 5</p> <p>Waterproofing</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p>	<p><b>Page No</b></p> <p>49</p> <p>50</p>	<p><b>Amount</b></p> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>
<p><b>Carried Forward to Summary of Section No. 2</b></p>		<p>R</p>
<p>Section 2</p> <p>Bill No. 5</p> <p>Waterproofing</p>		

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL No. 6</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:  A1 - DWG 05 - Staff Ablutions  A2 - DWG 09 - Female Ablutions  A3 - DWG 11 - Male Ablutions  A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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> <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 style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 2  Bill No. 6  Roof Coverings Etc.</p>				
			R		

<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>					
<b>Carried to Collection</b>				R	
Section 2 Bill No. 6 Roof Coverings Etc.					

<p>Section 2                  Bill No. 6                  Roof Coverings Etc.</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> <p>a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted</p> <p>b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances</p> <p>c. The corners of the roof are square and the wall framework is perpendicular or as specified</p> <p>d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework</p> <p>e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square</p> <p>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</p> <p>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</p> <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: center;"><b>Carried to Collection</b></p>			<p style="text-align: center;">R</p>
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<b><u>ROOF COVERINGS</u></b>					
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>					
<b><u>0.58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :</u></b>					
1	Roof sheeting laid to a mono-pitch. A1 : 43    A2 : 32    A3 : 35    A4 : 38	m2	148		
<b><u>0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u></b>					
2	Mono pitched ridge capping with 225mm lapping secured onto the roof. A1 : 10    A2 : 8    A3 : 9    A4 : 9	m	36		
<b><u>ROOF AND WALL INSULATION</u></b>					
<b><u>"Sisalation Grade FR430" or equal approved heavy industrial insulation</u></b>					
3	Insulation laid taut over roof trusses (at approximately 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires A1 : 43    A2 : 32    A3 : 35    A4 : 38	m2	148		
<b>Carried to Collection</b>					
Section 2 Bill No. 6 Roof Coverings Etc.				R	

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Section 2			
Bill No. 6			
Roof Coverings Etc.			
<b><u>COLLECTION</u></b>			
Total Brought Forward from Page No.	<b>Page No</b>		<b>Amount</b>
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	53		
	54		
	55		
<b>Carried Forward to Summary of Section No. 2</b>			
Section 2 Bill No. 6 Roof Coverings Etc.		R	

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL No. 7</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:  A1 - DWG 05 - Staff Ablutions  A2 - DWG 09 - Female Ablutions  A3 - DWG 11 - Male Ablutions  A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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>				
	<p><b>Carried to Collection</b></p>		R		
	<p>Section 2  Bill No. 7  Carpentry and Joinery</p>				

<b><u>CARPENTRY</u></b>					
<b><u>Sawn softwood:</u></b>					
1	38 x 114mm Wall plate. A1 : 22    A2 : 16    A3 : 18    A4 : 18	m	74		
2	50 x 76mm Purlins. A1 : 40    A2 : 32    A3 : 36    A4 : 36	m	144		
3	50 x 76mm Bracing. A1 : 15    A2 : 12    A3 : 13    A4 : 14	m	54		
4	38 x 152mm Rafters. A1 : 22    A2 : 16    A3 : 18    A4 : 18	m	74		
<b><u>Sundries:</u></b>					
5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). A1 : 36    A2 : 36    A3 : 36    A4 : 36	No	144		
<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. A1 : 21    A2 : 17    A3 : 19    A4 : 19	m	76		
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. A1 : 9    A2 : 8    A3 : 8    A4 : 9	m	34		
<b>Carried to Collection</b>					
Section 2 Bill No. 7 Carpentry and Joinery				R	

<b><u>DOORS ETC</u></b>					
<b><u>SANS Approved meranti:</u></b>					
8	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1). A1 : 2      A2 : 1      A3 : 1      A4 : 1	No	5		
9	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2). A1 : 1	No	1		
10	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4). A1 : 4      A2 : 4      A3 : 5      A4 : 6	No	19		
<b><u>FRAMED FRAMES, ETC</u></b>					
<b><u>Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:</u></b>					
11	70 x 108mm rebated meranti frame. A1 : 40      A2 : 39      A3 : 31      A4 : 34	m	144		
<b><u>Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - 4No. per style including 20mm quadrant beads all around the frame on both sides:</u></b>					
12	70 x 108mm rebated meranti frame. A1 : 17      A2 : 11      A3 : 11      A4 : 14	m	53		
<b>Carried to Collection</b>					
Section 2 Bill No. 7 Carpentry and Joinery				R	

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<p>Section 2 Bill No. 7 Carpentry and Joinery</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p> <p align="center"><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section 2 Bill No. 7 Carpentry and Joinery</p>	<p align="center"><b>Page No</b></p> <p align="center">57</p> <p align="center">58</p> <p align="center">59</p>	<p align="center"><b>Amount</b></p> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>	<p align="right">R</p>
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Item No		Quantity	Rate	Amount
	<p><b><u>BILL No. 8</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</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:  A1 - DWG 05 - Staff Ablutions  A2 - DWG 09 - Female Ablutions  A3 - DWG 11 - Male Ablutions  A4 - DWG 35 - Female 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>INTERNAL NAILED UP CEILINGS</u></b></p> <p><u>4mm Thick fibre-cement boards with and including 6 x 32mm wrought meranti coverstrips over joints:</u></p>			
1	<p>Ceilings including 38 x 50mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.</p> <p style="text-align: center;">A1 : 34      A2 : 27      A3 : 31      A4 : 32</p>	m2	124	
	<p><b><u>Trap doors</u></b></p>			
2	<p>Extra over 4mm thick fibre cement board ceiling for forming trap door, size 630 x 630mm in clear, formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc.</p> <p style="text-align: center;">A1 : 2      A2 : 1      A3 : 1      A4 : 1</p>	No	5	
	<p><b><u>Cornices</u></b></p>			
	<b>Carried to Collection</b>			R
	<p>Section 2  Bill No. 8  Ceilings, Partitions and Access Flooring</p>			

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3	<p><u>Paper covered gypsum cornice with skimmed joints plugged to walls including mitres, etc.:</u></p> <p>75mm Coved cornice. <span style="float: right;">m</span></p> <p style="padding-left: 40px;">A1 : 34    A2 : 24    A3 : 25    A4 : 27</p>	110		
<b>Carried to Collection</b>				R
<p>Section 2 Bill No. 8 Ceilings, Partitions and Access Flooring</p>				

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<p>Section 2</p> <p>Bill No. 8</p> <p>Ceilings, Partitions and Access Flooring</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p>		<p align="center"><b>Page No</b></p> <p align="center">61</p> <p align="center">62</p>		<p align="center"><b>Amount</b></p> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>
	<p align="center"><b>Carried Forward to Summary of Section No. 2</b></p>		<p align="center">R</p>	<hr/> <hr/>
<p>Section 2</p> <p>Bill No. 8</p> <p>Ceilings, Partitions and Access Flooring</p>				

Item No		Quantity	Rate	Amount	
	<p><b><u>BILL No. 9</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:                      A1 - DWG 05 - Staff Ablutions                      A2 - DWG 09 - Female Ablutions                      A3 - DWG 11 - Male Ablutions                      A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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>				
	Section 2 Bill No. 9 Ironmongery		R		

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	<b><u>HINGES:</u></b>				
1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges. A1 : 7.0    A2 : 6.0    A3 : 5.0    A4 : 7.0	Pairs	25.0		
	<b><u>LOCKS</u></b>				
2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset. A1 : 3        A2 : 1        A3 : 1        A4 : 1	No	6		
3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC A1 : 4        A2 : 5        A3 : 4        A4 : 6	No	19		
	<b><u>HANDLES</u></b>				
4	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing. A1 : 6        A2 : 5        A3 : 4        A4 : 6	No	21		
5	"Union CZ682-24SC" or equal approved radius lever handle. A1 : 3        A2 : 1        A3 : 1        A4 : 1	No	6		
	<b><u>Sundries:</u></b>				
6	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved. A1 : 4        A2 : 5        A3 : 4        A4 : 6	No	19		
7	38mm Diameter black rubber door stop plugged and screwed to wall. A1 : 7        A2 : 6        A3 : 5        A4 : 7	No	25		
	<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>				
8	Sign plate plugged and screwed to walls with chromium plated dome headed screws. A1 : 3        A2 : 1        A3 : 1        A4 : 1	No	6		
	<b>Carried to Collection</b>			R	
	Section 2 Bill No. 9 Ironmongery				

<b><u>SUNDRIES</u></b>					
<b><u>Halcast or equal approved"</u></b>					
9	Thiefproof toilet roll holder plugged. A1 : 4      A2 : 5      A3 : 4      A4 : 6	No	19		
<b><u>Grade 304 stainless steel ware:</u></b>					
10	32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. A1 : 1	No	1		
11	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. A1 : 1	No	1		
<b><u>Satin Grey Plastics or equal approved</u></b>					
12	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, mounted. A1 : 4      A2 : 5      A4 : 6	No	15		
<b>Carried to Collection</b>					
Section 2 Bill No. 9 Ironmongery				R	

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Section 2  Bill No. 9  Ironmongery  <u><b>COLLECTION</b></u>   Total Brought Forward from Page No.	<b>Page No</b>  64  65  66		<b>Amount</b>   ----- ----- -----	
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section 2 Bill No. 9 Ironmongery				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL No. 10</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>A1 - DWG 05 - Staff Ablutions A2 - DWG 09 - Female Ablutions A3 - DWG 11 - Male Ablutions A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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> <p><b><u>ALUMINIUM WINDOWS</u></b></p> <p>All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA.</p> <p>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.</p> <p>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.</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 2 Bill No. 10 Metalwork</p>			<p style="text-align: right;">R</p>

<p>1</p>	<p><b><u>Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:</u></b></p> <p>Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01.                  A1 : 12      A2 : 10      A3 : 10      A4 : 12</p> <p><b><u>HOT DIP GALVANIZED STEEL GATES</u></b></p> <p><u>Note: The contractor is to check on site measurements before placing of order.</u></p> <p><b><u>Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges to 25 x 25 x 2mm mild steel square tube welded to form frame. including locks, handles, ironmongery complete and fixed to brickwork:</u></b></p>	<p>No</p> <p>44</p>		
<p>2</p>	<p>Security gate size 900 x 2050mm high (G1).                  A1 : 2      A2 : 1      A3 : 1      A4 : 1</p>	<p>No</p> <p>5</p>		
<p>Section 2                  Bill No. 10                  Metalwork</p>		<p>Carried to Collection</p>	<p>R</p>	

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Section 2  Bill No. 10  Metalwork  <b><u>COLLECTION</u></b>   Total Brought Forward from Page No.	<b>Page No</b>  68  69		<b>Amount</b>  <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>	
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section 2 Bill No. 10 Metalwork				

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Item No		Quantity	Rate	Amount	
	<p><b><u>BILL No. 9</u></b></p> <p><b><u>PLASTERING</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:            A1 - DWG 05 - Staff Ablutions            A2 - DWG 09 - Female Ablutions            A3 - DWG 11 - Male Ablutions            A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><b><u>SCREEDS</u></b></p> <p><b><u>Untinted granolithic, on concrete:</u></b></p>				
1	<p>30mm Thick on floors.</p> <p style="padding-left: 40px;">A1 : 34      A2 : 25      A3 : 29      A4 : 30</p>	m2		118	
	<b>Carried Forward to Summary of Section No. 2</b>				R
	<p>Section 2            Bill No. 11            Plastering</p>				

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Item No		Quantity	Rate	Amount
	<p><b><u>BILL No. 12</u></b></p> <p><b><u>TILING</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:            A1 - DWG 05 - Staff Ablutions            A2 - DWG 09 - Female Ablutions            A3 - DWG 11 - Male Ablutions            A4 - DWG 35 - Female 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>CERAMIC FLOOR TILES</u></b></p> <p><b><u>300 x 300mm Selected Ceramic tiles (allow Prime Cost amount R200.00 per square metre for material ONLY), with 6mm straight joints fixed with tile adhesive and tile grout as per Manufacturer's recommendations:</u></b></p>			
1	Floor tiles A1 : 34      A2 : 25      A3 : 29      A4 : 30	m2	118	
2	Ceramic floor tile cut to form 150mm high skirting to match existing A1 : 53      A2 : 43      A3 : 49      A4 : 53	m	198	
	<b>Carried to Collection</b>			R
	Section 2 Bill No. 12 Tiling			

3	<p><b><u>WALL TILING</u></b></p> <p><b><u>200 x 200mm Shiny white glazed or equal approved wall tiles, laid adhesive and finished with grouting as per Manufacturer's recommendation on:</u></b></p> <p>Splashbacks. m2</p> <p>A1 : 3      A2 : 2      A3 : 3      A4 : 2</p>	10		
	<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 2                  Bill No. 12                  Tiling</p>			

R

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Section 2  Bill No. 12  Tiling  <u><b>COLLECTION</b></u>   Total Brought Forward from Page No.	<b>Page No</b>  72  73		<b>Amount</b>	
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section 2 Bill No. 12 Tiling				

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Item No		Quantity	Rate	Amount
	<p><b><u>BILL No. 13</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><b><u>(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:            A1 - DWG 05 - Staff Ablutions            A2 - DWG 09 - Female Ablutions            A3 - DWG 11 - Male Ablutions            A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><b><u>RAINWATER DISPOSAL:</u></b></p> <p><b><u>Watertite or equal approved Aluminium Gutters and Downpipes:</u></b></p>			
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres. A1 : 11      A2 : 8      A3 : 9      A4 : 10	m		38
2	Extra over eaves gutter for stopped end. A1 : 2      A2 : 2      A3 : 2      A4 : 2	No		8
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe. A1 : 3      A2 : 3      A3 : 3      A4 : 3	No		12
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured). A1 : 4      A2 : 4      A3 : 4      A4 : 4	m		16
5	Extra over rainwater downpipe for bends. A1 : 2      A2 : 3      A3 : 2      A4 : 3	No		10
	<b>Carried to Collection</b>			R
	Section 2 Bill No. 13 Plumbing and Drainage			

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	<b><u>TAPS, VALVES, ETC</u></b>			
	<b><u>Solid Cast brass taps, valves, etc:</u></b>			
6	"Cobra KM2-200" or equal approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller. A1 : 4      A2 : 3      A3 : 3      A4 : 4	No	14	
7	"Cobra FEABIBEA-4FT01" or equal approved 15mm chrome plated metered bib tap. A1 : 1	No	1	
8	15mm Ball-o-stop valve. A1 : 8      A2 : 10      A3 : 10      A4 : 10	No	38	
9	22mm Non Return valve. A1 : 4      A2 : 4      A3 : 4      A4 : 4	No	16	
	<b><u>WASTE UNIONS ETC</u></b>			
	<b><u>Outlets, traps, etc:</u></b>			
10	40mm Code 316 chrome plated unslotted waste outlet. A1 : 4      A2 : 3      A3 : 3      A4 : 4	No	14	
11	40mm Rubber "P" or "S" trap A1 : 4      A2 : 3      A3 : 4      A4 : 4	No	15	
	<b>Carried to Collection</b>			R
	Section 2 Bill No. 13 Plumbing and Drainage			

<b><u>SANITARY FITTINGS</u></b>					
<b><u>Vaal or equal approved:</u></b>					
12	Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification. A1 : 4      A2 : 3      A3 : 3      A4 : 4	No	14		
13	Close coupled washdown suite with 90 degree outlet open rim pan with and including seat and cover and matching 9 litre front single flush cistern complete with lid, fitments and flushpipe bedded to floor in 1:4 cement mortar mixture. A1 : 5      A2 : 5      A3 : 4      A4 : 6	No	20		
14	"Vaal 704001" or equally approved wall hung flat back urinal, size overall 610 x 3850mm, complete with chromium plated back inlet spreader and 38mm chromium plated domical grating hung on and including two proprietary hanger brackets . A1 : 2	No	2		
<b><u>Franke Model CB 102 (Automatic flushing) or equal approved flush valve/cistern flat back wall mounted urinal:</u></b>					
15	Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet. A3 : 2	No	2		
<b><u>Sanitary fitting sundries</u></b>					
16	150 x 150mm White glazed soap dish. A1 : 2      A2 : 3      A3 : 3      A4 : 4	No	12		
<b><u>SANITARY PLUMBING</u></b>					
<b><u>PVC waste or vent pipes and fittings:</u></b>					
17	15 x 350mm Flexible hose connector. A1 : 25      A2 : 25      A3 : 24      A4 : 24	m	98		
<b>Carried to Collection</b>					
Section 2 Bill No. 13 Plumbing and Drainage				R	

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18	110mm Pipe. A1 : 15      A2 : 15      A3 : 15      A4 : 15	m	60		
19	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. A1 : 30      A2 : 30      A3 : 27      A4 : 30	m	117		
	<b><u>Extra for:</u></b>				
20	15 x 350mm Flexible hose connector. A1 : 13      A2 : 8      A3 : 9      A4 : 14	No	44		
21	50mm Bend. A1 : 12      A2 : 10      A3 : 10      A4 : 12	No	44		
22	50mm Access bend. A1 : 12      A2 : 10      A3 : 10      A4 : 12	No	44		
23	100mm Access bend. A1 : 5      A2 : 5      A3 : 4      A4 : 6	No	20		
24	50mm Access tee junction. A1 : 5      A2 : 3      A3 : 3      A4 : 4	No	15		
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Polycop pipes:</u></b>				
	Pipes shall be class 10.				
	<b><u>Fixing of pipes</u></b>				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
	<b><u>Polycop pipes chased in walls:</u></b>				
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.				
	<b>Carried to Collection</b>			R	
	Section 2 Bill No. 13 Plumbing and Drainage				

	<b><u>Reducing fittings:</u></b>				
	Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.				
	<b><u>Class 10 Polycop pipes:</u></b>				
25	15mm Pipe chased into brick walls. A1 : 38      A2 : 38      A3 : 38      A4 : 38	m		152	
26	22mm Pipe chased into brick walls. A1 : 30      A2 : 25      A3 : 25      A4 : 30	m		110	
	<b><u>Extra over polycop pipes for compression fittings:</u></b>				
27	15mm Fittings. A1 : 25      A2 : 23      A3 : 23      A4 : 25	No		96	
28	22mm Fittings. A1 : 15      A2 : 15      A3 : 15      A4 : 15	No		60	
	<b><u>Connection to existing water supply</u></b>				
29	Allow for connection to existing water supply.			Item	
	<b><u>Testing</u></b>				
30	Testing water pipe system			Item	
	<b>Carried to Collection</b>				
	Section 2 Bill No. 13 Plumbing and Drainage				R

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Section 2  Bill No. 13  Plumbing and Drainage  <b><u>COLLECTION</u></b>   Total Brought Forward from Page No.	<b>Page No</b>  75  76  77  78  79		<b>Amount</b>  <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>	
<b>Carried Forward to Summary of Section No. 2</b>			R	
Section 2 Bill No. 13 Plumbing and Drainage				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL No. 12</u></b></p> <p><b><u>GLAZING</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:            A1 - DWG 05 - Staff Ablutions            A2 - DWG 09 - Female Ablutions            A3 - DWG 11 - Male Ablutions            A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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><b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></b></p>			
1	<p>4mm Thick polished float glass mirror, size 450 x 600mm, four times plugged to wall with and including chromium plated dome headed screws.</p> <p>A1 : 4      A2 : 3      A3 : 3      A4 : 4</p>	No	14	
	<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section 2 Bill No. 14 Glazing</p>		R	

Item No		Quantity	Rate	Amount
	<p><b><u>BILL No. 13</u></b></p> <p><b><u>PAINTWORK</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:            A1 - DWG 05 - Staff Ablutions            A2 - DWG 09 - Female Ablutions            A3 - DWG 11 - Male Ablutions            A4 - DWG 35 - Female Ablutions</p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></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>PAINTWORK ETC TO NEW WORK</u></b></p> <p><b><u>ON PLASTER BOARD</u></b></p> <p><b><u>Prepare and apply one coat undercoat and two coats modified acrylic PVA paint on:</u></b></p>			
1	<p>Flush plastered ceilings</p> <p>A1 : 75    A2 : 65    A3 : 70    A4 : 71</p>	m2	281	
	<p><b><u>ON WOOD</u></b></p> <p><b><u>Two coats superior quality clear gloss varnish on smooth sanded down surfaces on:</u></b></p>			
2	<p>Doors</p> <p>A1 : 23    A2 : 20    A3 : 20    A4 : 23</p>	m2	86	
3	<p>Door frames</p> <p>A1 : 19    A2 : 20    A3 : 20    A4 : 23</p>	m2	82	
	<b>Carried to Collection</b>			R
	Section 2 Bill No. 15 Paintwork			

	<p><b><u>Prepare and apply two coats carbolenium on:</u></b></p> <p>4 Exposed timbers. m2 40                  A1 : 10    A2 : 10    A3 : 10    A4 : 10</p> <p><b><u>ON FIBRE-CEMENT</u></b></p> <p><b><u>Prepare and apply two coats pure acrylic roof paint on:</u></b></p> <p>5 Fascias and barge boards. m2 28                  A1 : 7    A2 : 7    A3 : 7    A4 : 7</p>			
	<p style="text-align: center;"><b>Carried to Collection</b></p>		<p style="text-align: center;">R</p>	
<p>Section 2                  Bill No. 15                  Paintwork</p>				

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Section 2 Bill No. 15 Paintwork <u>COLLECTION</u>			Amount
Total Brought Forward from Page No.	Page No 82		
	83		-----
			-----
<p align="center"><b>Carried Forward to Summary of Section No. 2</b></p> Section 2 Bill No. 15 Paintwork		R	

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<b>Bill No</b>		<b>Page No</b>		<b>Amount</b>
	Section 2			
	<b><u>SECTION SUMMARY - BUILDING WORKS</u></b>			
	Alterations	33		
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	<b>Carried to Final Summary</b>		R	
	Section 2			

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION No. 3</u></b></p> <p><b><u>BILL No. 1</u></b></p> <p><b><u>EXTERNAL WORKS (PROVISIONAL)</u></b></p> <p><b><u>MODEL PREAMBLES</u></b></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>uPVC pipes and fittings</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.</p> <p><u>Excavations:</u></p> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>Soft rock and hard rock shall be as defined in Earthworks.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p>			
	<b>Carried to Collection</b>		R	
	Section 3 Bill No. 1 External Works			

	<p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p>SABS 1200  L : Medium pressure pipelines  LD : Sewers  LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200  DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.</p> <p><u>Descriptions of pipes laid in trenches:</u></p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p> <p><u>Descriptions of catchpits, junction boxes, manholes, etc:</u></p> <p>Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from 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><b><u>THE FOLLOWING IN PLATFORMS, ETC.</u></b></p> <p><u>Site Clearance, ETC</u></p> <p>1 Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris. <span style="float: right;">m2</span></p> <p>2 Stripping average 200mm thick layer of topsoil and stockpiling on site. <span style="float: right;">m2</span></p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section 3  Bill No. 1  External Works</p>				
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	<u>Open face excavation not exceeding 2m deep:</u>				
3	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m3	480		
	<u>Extra over all excavations for carting away:</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	240		
	<u>Filling supplied by the contractor to form platforms</u>				
5	Over site of Selected Subgrade G7 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	240		
	<u>Surface Preparation:</u>				
6	Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.	m2	1 600		
	<u>Prescribed density tests on filling:</u>				
7	Modified AASHTO Density test.	No	10		
	<b><u>THE FOLLOWING IN BULK WATER RETICULATION</u></b>				
	<u>ALTERATIONS TO EXISTING</u>				
8	Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere).	No	1		
9	Locate, cut into and temporarily stop off 54mm diameter water pipe for insertion of Tee Junction (elsewhere).	No	1		
	<b><u>HDPE 100PN 12.5 pressure pipes:</u></b>				
10	25mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	100		
	<b>Carried to Collection</b>				
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11	40mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	45		
	<b><u>Extra over (PN12.5) HDPE piping for fittings:</u></b>				
12	25mm Bend.	No	10		
13	25mm Tee.	No	5		
14	40mm Bends.	No	5		
15	40mm Tee.	No	3		
	<b><u>TAPS, VALVES, ETC</u></b>				
16	25mm Gate valve.	No	3		
17	25mm Non-return valve.	No	6		
18	40mm Non-return valve.	No	1		
19	40mm Stop valve.	No	5		
	<b><u>Water supply valve or meter chambers</u></b>				
20	Excavate for and build valve chamber size 460 x 460 x not exceeding 1000mm deep internally, formed of 300mm thick layer of well backfilling , 200mm high half brick corbelled sides with 75mm brickforce between each course including Type 3A cast iron valve cover and frame size 100 x 230 x 300 encased in a 300mm thick 25mpa mass concrete base.	No	1		
	<b><u>Sundries:</u></b>				
	<b><u>Municipal Connection</u></b>				
21	Allow for connecting to the main water supply.		Item		20 000.00
22	Allow for profit if required.			%	
	<b><u>Testing:</u></b>				
23	Testing water pipe system.		Item		
	<b><u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u></b>				
	<b>Carried to Collection</b>				
	Section 3			R	
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<b><u>STORMWATER APRONS</u></b>					
<u>Excavation not exceeding 2m deep</u>					
24	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	12		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
25	Off site to a dumping site to be found by the Contractor.	m3	12		
<u>Filling supplied by the contractor under floors, aprons, etc</u>					
26	G7 Base course material compacted to 98% Mod AASHTO density	m3	23		
<u>Coarse river sand filling supplied by the contractor:</u>					
27	Under floors etc.	m3	6		
<u>Compaction of surfaces:</u>					
28	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	115		
<u>Prescribed density tests on filling:</u>					
29	In-situ dry density test.	No	2		
<u>Reinforced 25Mpa/19mm Concrete:</u>					
30	Surface beds cast in panels on waterproofing.	m3	12		
<u>Finishing top surfaces of concrete smooth with a wood float:</u>					
31	Surface beds, slabs, etc to falls and currents.	m2	115		
<u>Test blocks:</u>					
32	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
<b>Carried to Collection</b>					
Section 3 Bill No. 1 External Works				R	

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	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
33	12mm Joints not exceeding 300mm high.	m	254		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
34	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	200		
	<u>Fabric reinforcement:</u>				
35	REF. 888 fabric reinforcement in concrete surface beds, raft slabs etc.	m2	115		
	<u>Waterproofing under Surface beds</u>				
36	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	115		
	<b>Carried to Collection</b>			R	
	Section 3				
	Bill No. 1				
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<b><u>STORMWATER CHANNELS</u></b>					
	<u>Excavation not exceeding 2m deep</u>				
37	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	70		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
38	Off site to a dumping site to be found by the Contractor.	m3	70		
	<u>Fillings supplied by the contractor under channels</u>				
39	G7 Base course material compacted to 98% Mod AASHTO density	m3	27		
	<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>				
40	700 x 150mm 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	260		
41	Extra for 700mm angle	No	8		
42	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		
	<u>Waterproofing under Surface beds</u>				
43	250 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on G7 material (elsewhere measured).	m2	189		
	<b>Carried to Collection</b>				
	Section 3 Bill No. 1 External Works			R	

<b><u>BULK SEWER RETICULATION</u></b>					
<b><u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u></b>					
44	110mm Diameter Class 34 pipe laid in ground to falls on and including Class C bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 750mm wide and not exceeding 1500mm deep and backfilling to 90% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, shoring, etc.	m	20		
45	110mm Diameter Class 34 pipe laid in ground to falls on and including Class C bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 750mm wide exceeding 1000mm deep and not exceeding 2000mm deep and backfilling to 90% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, shoring, etc.	m	106		
46	110mm Diameter Class 34 pipe laid in ground to falls on and including Class C bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 750mm wide exceeding 2000mm deep and not exceeding 3000mm deep and backfilling to 90% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, shoring, etc.	m	20		
<b><u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u></b>					
47	110mm Bend	No	10		
48	110mm Rodding eye	No	2		
49	110mm Junction	No	20		
50	160 x 110mm Reducing junction	No	1		
51	40 x 25mm Reducer.	No	15		
<b><u>PRE-CAST CONCRETE MANHOLES</u></b>					
<b>Carried to Collection</b>				R	
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	<b><u>Excavate in earth for and including circular type precast concrete manhole formed of 1000mm diameter x 350mm thick 20Mpa concrete base with manhole formed of 1000mm diameter (internally) precast concrete rings with joints sealed with 1:3 cement to sand grout caulked with and including precast concrete cover slab 160mm thick with opening for and including heavy duty road type manhole cover and lockable frame as type 2A set in cement mortar and sealed in tallow and with 20Mpa concrete benching in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary excavation, backfilling, carting away, risk of collapse, shoring, dewatering, concrete blinding, formwork, step irons, etc.:</u></b>				
52	Manhole not exceeding 1500m deep.	No	4		
53	Manhole exceeding 1500m not exceeding 3000mm deep.	No	2		
	<b><u>SUNDRIES</u></b>				
	<b><u>Earthworks</u></b>				
54	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m3	30		
55	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m3	18		
56	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	No	1		
	<b><u>Manhole covers</u></b>				
57	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	6		
	<b><u>Connection</u></b>				
58	Allow for connecting to sewer drainage system		Item		
	<b><u>Testing:</u></b>				
59	Testing drainage system.		Item		
	<b>Carried to Collection</b>				R
	Section 3 Bill No. 1 External Works				

	<b><u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u></b>				
	<b><u>Excavation in earth not exceeding 2m deep:</u></b>				
60	Trenches.	m3	4		
	<b><u>Extra over trench and hole excavations in earth for excavation:</u></b>				
61	Soft rock.	m3	1		
62	Hard rock.	m3	1		
	<b><u>Extra over all excavations for carting away:</u></b>				
63	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	4		
	<b><u>Risk of collapse of excavations:</u></b>				
64	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	14		
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u></b>				
65	Backfilling to trenches, holes, etc.	m3	4		
	<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>				
66	Under floors, etc.	m3	4		
	<b><u>Compaction of surfaces</u></b>				
67	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	20		
	<b><u>25Mpa/19mm Un-reinforced Concrete</u></b>				
68	Strip footings.	m3	6		
	<b>Carried to Collection</b>				R
	Section 3				
	Bill No. 1				
	External Works				

	<b><u>25 MPa/19mm Concrete:</u></b>				
69	Tank concrete slab.	m3	2		
	<b><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></b>				
70	Surface beds, slabs, etc.	m2	20		
	<b><u>Rough Formwork to Sides (Degree of Accuracy III):</u></b>				
71	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	40		
	<b><u>Allens Meshco Square Mesh Fabric reinforcement:</u></b>				
72	Type 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	20		
	<b><u>Foundation brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>				
73	One brick walls.	m2	32		
	<b><u>Super Structure brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u></b>				
74	One brick walls.	m2	21		
75	110mm Wide header course to top of one brick wall in lining to concrete bedded and jointed in cement mortar and pointed on one side.	m	40		
	<b><u>Brickwork reinforcement:</u></b>				
76	230mm Wide reinforcement built in horizontally.	m	57		
77	Ditto, but in foundations (Provisional).	m	89		
	<b><u>"Corobrik Firelight Satin FBX" 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:</u></b>				
78	Extra over brickwork for face brickwork externally.	m2	21		
	<b>Carried to Collection</b>				
	Section 3				
	Bill No. 1				
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<b><u>MOVEMENT JOINTS ETC</u></b>					
<b><u>Two layers of 375 micron damp proof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed (Provisional)</u></b>					
79	Not exceeding 300mm wide.	m	8		
<b><u>Plastic water tanks etc:</u></b>					
80	5000 Litre light duty cylindrical 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	5		
81	Hole top of tank for 100mm pipe.	No	5		
<b><u>Surface treatment</u></b>					
82	Float surface of concrete to a wood float finish.	m2	20		
<b><u>Sundries</u></b>					
83	M12 x 200mm Eye bolts.	No	20		
<b><u>TEST BLOCKS</u></b>					
<b><u>Test blocks:</u></b>					
84	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
<b><u>Waterproofing under Surface beds</u></b>					
85	250 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	20		
<b><u>Ties, cramps, etc.</u></b>					
86	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M10 bolt and nut.	No	20		
<b><u>THE FOLLOWING IN GROUND STORAGE TANKS</u></b>					
<b>Carried to Collection</b>				R	
Section 3 Bill No. 1 External Works					

	<b><u>EXCAVATIONS, FILLING, ETC.</u></b>				
	<u>Excavate in earth not exceeding 2m deep including trimming sides, levelling and ramming bottoms and deposit in spoil heaps for later re-use or cart away</u>				
87	Reduced levels under solid floors.	m3	16		
	<u>Excavations in earth of more difficult character</u>				
88	Extra over excavations in earth for excavation in soft rock.	m3	1		
	<b><u>Carting away of excavated material</u></b>				
89	Load surplus or unsuitable material from spoil heaps and cart away to a dumping site to be located by the Contractor.	m3	12		
	<b><u>Risk of collapse of excavations</u></b>				
90	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	14		
	<b><u>Keeping excavations free of water</u></b>				
91	Allow for keeping the excavations free from water.		Item		
	<b><u>Foundation courses</u></b>				
92	Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density under solid floors.	m3	6		
	<b><u>Compaction of surfaces</u></b>				
93	Scarify in-situ material to a depth of 150mm and compact to 93% Mod AASHTO density.	m2	32		
	<b><u>Tests</u></b>				
94	Allow for Mod AASHTO density tests on filling.	No	2.00		
	<b><u>CONCRETE (Labour intensive)</u></b>				
	<b>Carried to Collection</b>			R	
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	<u>Reinforced concrete 30MPa (19mm stone) in:</u>				
95	Rafter slabs cast against excavated surfaces.	m3	10		
	<u>Testing</u>				
96	Allow for preparing and curing a set of three test cubes, each size 150mm x 150mm x 150mm and pay all transport and testing costs undertaken by an approved independent laboratory. (Provisional)	Sets	2		
	<b><u>Surface treatment</u></b>				
97	Float surface of concrete to a wood float finish.	m2	32		
	<b>Carried to Collection</b>			R	
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	<b><u>FORMWORK</u></b>				
	<b><u>Edges, risers, ends and reveals</u></b>				
98	Edge, riser, etc exceeding 300mm high.	m2	11		
	<b><u>Projections, grooves, etc.</u></b>				
99	Labour and material in forming 25 x 25mm chamfer to exposed top edge of concrete.	m	27		
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
	<u>High tensile welded steel mesh reinforcement :</u>				
100	Ref: 395 cast into concrete surfaces.	m2	32		
	<b><u>Sundries</u></b>				
101	M12 x 200mm Eye bolts.	No	12		
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	<b><u>Pipes, pipe fittings, etc.</u></b>				
	<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>				
102	40mm Pipe.	m	100		
103	50mm Pipe.	m	20		
104	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	15		
	<u>Extra over uPVC pipes for the following fittings</u>				
105	40mm Bend.	No	20		
106	50mm Bend.	No	6		
107	40mm Tee junction.	No	3		
108	63 x 40mm Straight reducer	No	3		
	<b><u>Taps, valves, etc.</u></b>				
109	25mm float valve kit fitted inside of tank.	No	1		
	<b>Carried to Collection</b>				
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110	40mm In-line strainer.	No	2		
111	40mm Brass gate valve.	No	3		
112	40mm Brass non return valve.	No	2		
113	40mm Flanged resilient seal gate valve with cap top.	No	2		
114	40mm Flanged pressure reducing valve.	No	2		
	<b><u>Switch</u></b>				
115	Float switch fitted inside of tank.	No	1		
	<b><u>Connections</u></b>				
	<u>Connection of new to existing pipes</u>				
116	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2		
117	Connection of 40mm diameter HDPE to 0.75kw water pump including all necessary reducers, saddles, etc.	No	4		
118	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1		
	<u>Rainwater tanks:</u>				
119	20 000 Litre polyethylene rotomoulded vertical water storage tank provided complete with lid and overflow outlet, fitted with suitable adaptor and setting in position on concrete tankstand (elsewhere measured). (The tanks are to be filled with water for the Practical Completion inspection)	No	3		
120	Hole through side of tank for 40mm diameter pipe including adaptor.	No	3		
	<u>Ties, cramps, etc.</u>				
121	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M10 bolt and nut.	No	3		
	<b>Carried to Collection</b>				
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122	38 x 1,6mm Galvanised hoop iron tie down, 2500mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	3		
	<u>Water supply valve or meter chambers</u>				
123	Excavate for and build valve chamber size 565 x 665 x 550mm deep overall formed of precast concrete valve chamber units 1, 2, 3 and 4 with valve box lid-V and 19mm thick layer of 19mm stone in bottom including filling in and ramming.	No	3		
	<u>Pump and Pumphouse</u>				
124	Allow the Budgetary Allowance of R 25 000,00 (Twenty Thousand Rand) for the installation of a 0.75kw water pump including housing, etc.			Item	25 000.00
	<b><u>ELECTRICAL CONNECTION</u></b>				
	<u>Electrical Works</u>				
125	Allow the Budgetary Allowance of R 30 000,00 (Thirty Thousand Rand) for the electrical supply to the water pumps, float switches, ect.			Item	60 000.00
	<b><u>STORMWATER CHANNELS FOR WATER TANKS</u></b>				
	<u>Excavation not exceeding 2m deep</u>				
126	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	19		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
127	Off site to a dumping site to be found by the Contractor.	m3	19		
	<b><u>Risk of collapse of excavations</u></b>				
128	Allow for risk of collapse to sides of excavations not exceeding 1.5m deep including all necessary timber shoring, etc.	m2	75		
	<b><u>Keeping excavations free of water</u></b>				
129	Allow for keeping the excavations free from water.			Item	
	<b>Carried to Collection</b>				R
	Section 3				
	Bill No. 1				
	External Works				

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	<u>Filling supplied by the contractor under channels</u>				
130	G7 Base course material compacted to 98% Mod AASHTO density	m3	38		
	<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>				
131	700 x 150mm 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	80		
132	Extra for 700mm angle	No	2		
133	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	1		
	<u>Waterproofing under Surface beds</u>				
134	250 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on G7 material (elsewhere measured).	m2	56		
	<b><u>Surface treatment</u></b>				
135	Float surface of concrete to a wood float finish.	m2	56		
	<b>Carried to Collection</b>				
	Section 3 Bill No. 1 External Works				R



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Item No		Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>			
	<b><u>BILL No. 1</u></b>			
	<b><u>PROVISIONAL SUMS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
	<b><u>BUDGETARY ALLOWANCES</u></b>			
	<b><u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u></b>			
	<b><u>COMMUNITY LIAISON OFFICER</u></b>			
1	Allow for the employment of a Community Liaison Officer by the Main Contractor, to be paid an allowance of R6 500.00 per month.	Item		45 500.00
2	Add: Mark-up		%	
	<b><u>ELECTRICAL INSTALLATION</u></b>			
3	Provide the sum of R 200 000.00 ( Two Hundred Thousand Rand ) for Electrical installation.	Item		200 000.00
4	Add: Profit		%	
5	Add: Attendance		%	
	<b>Carried to Collection</b>		R	
	Section 4 Bill No. 1 Provisional Sums			

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	<b><u>TRAINING SMME'S</u></b>				
6	Provide the sum of R 100 000.00 (One Hundred Thousand Rand ) for training SMME's.	Item		100 000.00	
7	Add: Profit		%		
8	Add: Attendance		%		
	<b><u>SMME WORK PACKAGES</u></b>				
9	Provide the sum of R 38 000.00 (Thirty Eight Thousand Rand) for screen wall installed complete.	Item		38 000.00	
10	Add: Profit		%		
11	Add: Attendance		%		
12	Provide the sum of R 11 000.00 (Eleven Thousand Rand) for access ramps installed complete.	Item		11 000.00	
13	Add: Profit		%		
14	Add: Attendance		%		
15	Provide the sum of R 343 000.00 (Three Hundred and Forty Three Thousand Rand ) for walkways installed complete.	Item		343 000.00	
16	Add: Profit		%		
17	Add: Attendance		%		
18	Provide the sum of R 81 400.00 (Eighty One Thousand Four Hundred Rand) for security fencing installed complete.	Item		81 400.00	
19	Add: Profit		%		
20	Provide the sum of R 135 000.00 (One Hundred and Thirty Five Thousand Rand ) for portable chemical toilets.	Item		135 000.00	
21	Add: Profit		%		
22	Add: Attendance		%		
	<b>Carried to Collection</b>				
	Section 4			R	
	Bill No. 1				
	Provisional Sums				

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23	Provide the sum of R 20 000.00 (Twenty Thousand Rand) for SMME workmanship sample construction.	Item		20 000.00
24	Add: Profit		%	
25	Add: Attendance		%	
26	Provide the sum of R 60 000.00 (Sixty Thousand Rand) for the facilitation of occupational health safety file, medical tests and provision of PPE, OHS file etc. for SMME personnel.	Item		60 000.00
27	Add: Profit		%	
<b>Carried to Collection</b>				
				R
Section 4 Bill No. 1 Provisional Sums				



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Section No	<b><u>FINAL SUMMARY</u></b>	Page No		Amount
1	PRELIMINARIES	30		
2	BUILDING WORKS	85		
3	EXTERNAL WORKS (PROVISIONAL)	104		
4	PROVISIONAL SUMS	108		
	SUB-TOTAL		R	
	<b><u>CONTINGENCIES</u></b>			
	Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R	
	SUB-TOTAL		R	
	Add Value Added Tax at the rate of 15%		R	
	<b>Carried to Form of Offer and Acceptance</b>		R	