

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<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 above mentioned 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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	<p>7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.</p> <p>8. Where any item is not relevant to this specific contract, such item is marked N/A.</p> <p>9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p> <p>Definitions and interpretation (Clause 1).</p>		
1	<p>F: V: T:</p> <p><u>OBJECTIVE AND PREPARATION</u></p> <p>Offer, acceptance and performance (Clause 2).</p>	Item	
2	<p>F: V: T:</p> <p>Documents (Clause 3). Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.' Clause 3.3 is deleted and substituted with: The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.</p>	Item	
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3	F: V: T: Design responsibility (Clause 4).	Item	
4	F: V: T: Employer's agents (Clause 5).	Item	
5	F: V: T: Site representative (Clause 6).	Item	
6	F: V: T: Compliance with regulations (Clause 7).	Item	
7	F: V: T: Works risk (Clause 8)	Item	
8	F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item	
9	F: V: T: Works insurances (Clause 10).	Item	
10	F: V: T: Liability insurances (Clause 11).	Item	
11	F: V: T: Effecting insurances (Clause 12).	Item	
12	F: V: T: State Provisions (Clause 13).	Item	
13	F: V: T:	Item	
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	Security (Clause 14).		
14	F: V: T:	Item	
	<u>EXECUTION</u>		
	Preparation for and execution of the works (Clause 15).		
15	F: V: T:	Item	
	Access to the works (Clause 16).		
16	F: V: T:	Item	
	Contract instructions (Clause 17).		
17	F: V: T:	Item	
	Setting out of the works (Clause 18.3).		
	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.		
18	F: V: T:	Item	
	Assignment (Clause 19).		
19	F: V: T:	Item	
	Nominated subcontractors (Clause 20).		
20	F: V: T:	Item	
	Selected subcontractors (Clause 21).		
21	F: V: T:	Item	
	Employer's Direct contractors (Clause 22).		
22	F: V: T:	Item	
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	Contractor's Domestic subcontractors (Clause 23).		
23	F: V: T:	Item	
	<u>COMPLETION</u>		
	Practical completion (Clause 24).		
24	F: V: T:	Item	
	Works completion (Clause 25).		
25	F: V: T:	Item	
	Final completion (Clause 26).		
	Latent defects liability period (Clause 27).		
	Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"		
26	F: V: T:	Item	
	Sectional completion (Clause 28).		
27	F: V: T:	Item	
	Revision of date for practical completion (Clause 29).		
28	F: V: T:	Item	
	Penalty for non-completion (Clause 30).		
29	F: V: T:	Item	
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	<u>PAYMENT</u>		
	Interim payment to the contractor (Clause 31). The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing. Adjustment to the contract value (Clause 32).		
30	F: V: T: Recovery of expense and loss (Clause 33).	Item	
31	F: V: T: Final account and final payment (Clause 34).	Item	
32	F: V: T: Payment to other parties (Clause 35).	Item	
33	F: V: T:	Item	
	<u>CANCELLATION</u>		
	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).		
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36	F: V: T: Cancellation - Cessation of the works (Clause 39).	Item	
37	F: V: T: <u>DISPUTE</u> Dispute Settlement (Clause 40)	Item	
38	F: V: T: <u>SUBSTITUTE PROVISIONS</u> State Clauses (Clause 41)	Item	
39	F: V: T: <u>CONTRACT VARIABLES</u> The Schedule: Pre-Tender information (Clause 42).	Item	
40	F: V: T: <u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u> 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: Mgiba Consulting Engineers Telephone: 015 065 0838 Physical address: 8 Jordy Place, Arum Road, Gonubie North, East London, 5257	Item	
	Carried Forward		R
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<p>Brought Forward</p> <p><u>CONTRACT DETAILS (Clause 42.2)</u></p> <p>Clause 42.2.1 Works Description: Construction of new ablution facilities.</p> <p>Clause 42.2.2 Site Description: The site is the existing school</p> <p>Clause 42.2.3 Work or Installations by Others: NIL</p> <p>Clause 42.2.4 This Agreement is for a State Contract :- Yes Payment will be made for materials and goods:- Yes Dispute resolution :- Mediation (in terms of clause 40) followed by litigation. Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A</p> <p>Clause 42.2.5 Date on which possession of the site is intended to be given on :- To be advised.</p> <p>Clause 42.2.6 Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days. Completion in Sections are required : NO</p> <p>Clause 42.2.7 Intended date of practical completion and the penalty per calendar day for the works as a whole :- To be advised Penalty amount will be 5,75c/R100 of Contract Sum.</p> <p>Clause 42.2.8 Intended dates of practical completion and the penalties per calendar day for the works in sections : N/A</p> <p>Clause 42.2.9 The law applicable to this agreement shall be that of - Republic of South Africa.</p>	<p>R</p>
<p>Carried Forward</p> <p>Section No. 1 Bill No. 1 General Preliminaries</p>	<p>R</p>

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	<p><u>INSURANCES (Clause 42.3)</u></p> <p>Clause 42.3.1 Contract works insurance to be effected by Contractor for the sum of: Contract Sum With a deductible of : Not exceeding 5% of each and every claim.</p> <p>Clause 42.3.2 Supplementary insurance is required : Yes SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).</p> <p>Clause 42.3.3 Public liability insurance to be effected by Contractor For the amount of: R 5million With a deductible of: Not exceeding 5% of each and every claim.</p> <p><u>DOCUMENTS (Clause 42.4)</u></p> <p>Clause 42.4.1 Waiver of the contractor's lien is required :- YES</p> <p>Clause 42.4.2 Number of construction document copies to be supplied to the Contractor free of charge :- 1</p> <p>Clause 42.4.3 Bills of Quantities drawn up in accordance with :- Standard System of Measuring Building Work - Seventh Edition including all amendments</p> <p>Clause 42.4.4 Number of days for submission of priced documents : 5 working days from the Letter of Appointment.</p> <p>Clause 42.4.5 JBCC Engineering General Conditions are to be included in the documents :- No</p> <p>Clause 42.4.6 The contract value is to be adjusted using CPAP:- NO</p>		
41	<p>F: V: T:</p> <p><u>SECTION B: PRELIMINARIES</u></p> <p><u>DEFINITIONS AND INTERPRETATION (B1)</u></p> <p>Definitions and Interpretation (B1)</p>	Item	
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	<u>DOCUMENTS (B2)</u>		
	Checking of documents (B2.1)		
	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.		
42	F: V: T:	Item	
	Provisional Bills of Quantities (B2.2) YES Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.		
43	F: V: T:	Item	
	Availability of construction documentation (B2.3)		
44	F: V: T:	Item	
	Interests of Agents (B2.4)		
45	F: V: T:	Item	
	Priced documents (B2.5)		
46	F: V: T:	Item	
	Tender submission (B2.6)		
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.		
47	F: V: T:	Item	
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	<u>THE SITE (B3)</u>		
	Defined works area (B3.1) The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.		
48	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item	
49	F: V: T: Inspection of the Site (B3.3)	Item	
50	F: V: T: Existing premises occupied (B3.4)	Item	
51	F: V: T: Previous work - dimensional accuracy (B3.5)	Item	
52	F: V: T: Previous work - defects (B3.6)	Item	
53	F: V: T: Services - known (B3.7)	Item	
54	F: V: T: Services - unknown (B3.8)	Item	
55	F: V: T: Protection of trees (B3.9)	Item	
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56	F: V: T: Articles of value (B3.10)	Item	
57	F: V: T: Inspection of adjoining properties (B3.11)	Item	
58	F: V: T:	Item	
	<u>MANAGEMENT OF CONTRACT (B4)</u>		
	Management of the Works (B4.1)		
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:	Item	
	<u>SAMPLES AND SHOP DRAWINGS (B5)</u>		
	Samples of materials (B5.1)		
63	F: V: T: Workmanship samples (B5.2)	Item	
64	F: V: T: Shop drawings (B5.3)	Item	
65	F: V: T:	Item	
	<u>TEMPORARY WORKS AND PLANT (B6)</u>		
	Deposits and fees (B6.1)		
66	F: V: T:	Item	
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67	<p>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.</p> <p>F: V: T:</p> <p>Advertising (B6.3)</p> <p>F: V: T:</p>	Item
68	<p>Plant and equipment (B6.4)</p> <p>F: V: T:</p>	Item
69	<p>Main notice board (B6.5) One notice board shall be provided by the Contractor</p> <p>F: V: T:</p>	Item
70	<p>Subcontractors notice board (B6.6) (N/A)</p> <p>F: V: T:</p>	Item
<u>TEMPORARY SERVICES (B7)</u>		
71	<p>Location (B7.1)</p> <p>F: V: T:</p>	Item
72	<p>Water (B7.2)</p> <p>The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).</p> <p>F: V: T:</p>	Item
73	<p>Electricity (B7.3)</p> <p>The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).</p>	m
74	<p>F: V: T:</p>	Item
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	Brought Forward		R
	Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
75	F: V: T:	Item	
	Ablution facilities (B7.5) The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
76	F: V: T:	Item	
	<u>PRIME COST AMOUNTS (B8)</u>		
	Responsibility for prime cost amounts (B8.1)		
77	F: V: T:	Item	
	<u>ATTENDANCE ON N/S SUB CONTRACTORS (B9)</u>		
	General Attendance (B9.1)		
78	F: V: T:	Item	
	Special Attendance (B9.2)		
79	F: V: T:	Item	
	Commissioning - fuel, water and power (B9.3)		
80	F: V: T:	Item	
	<u>FINANCIAL ASPECTS (B10)</u>		
	Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).		
81	F: V: T:	Item	
	Payment of Preliminaries (B10.2)		
82	F: V: T:	Item	
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	Adjustment of Preliminaries (B10.3)		
83	F: V: T:	Item	
	Payment certificate cash flow (B10.4)		
84	F: V: T:	Item	
	Contractor information supply (B10.5)		
85	F: V: T:	Item	
	<u>GENERAL (B11)</u>		
	Protection of the Works (B11.1)		
86	F: V: T:	Item	
	Protection/isolation of existing/sectionally occupied works (B11.2)		
87	F: V: T:	Item	
	Site security (B11.3)		
88	F: V: T:	Item	
	Notice before covering work (B11.4)		
89	F: V: T:	Item	
	Disturbance (B11.5)		
90	F: V: T:	Item	
	Works cleaning and clearing (B11.6)		
91	F: V: T:	Item	
	Vermin (B11.7)		
92	F: V: T:	Item	
	Overhand work (B11.8)		
93	F: V: T:	Item	
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<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
<u>Section C: Specific Preliminaries:</u>		
	<p>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.</p>	
94	F: V: T:	Item
	<p>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.</p>	
95	F: V: T:	Item
	<p>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.</p>	
96	F: V: T:	Item
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97	<p>C4. Overtime Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p>	m	
98	<p>F: V: T:</p> <p>C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p>	Item	
99	<p>F: V: T:</p> <p>C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book: 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 countersignature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p>	Item	
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100	<p>F: V: T:</p> <p>C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>	Item	
101	<p>F: V: T:</p> <p>C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>	Item	
102	<p>F: V: T:</p> <p>C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p>	Item	
103	<p>F: V: T:</p> <p>C10. Method Statement The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p>	Item	
104	<p>F: V: T:</p>	Item	
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105	<p>C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p> <p>F: V: T:</p>	Item	
106	<p>C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> <p>F: V: T:</p>	Item	
107	<p>C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> <p>F: V: T:</p>	Item	
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	<u>C14. Office accommodation</u>		
	The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]		
108	F: V: T:	Item	
	<u>C15. Storage Facilities</u>		
	The Contractor shall provide a Container for storage of materials.		
109	F: V: T:	Item	
	C16. Removal and Making Good of Temporary Works, etc, on Completion		
	The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting there from.		
110	F: V: T:	Item	
111	SUB - TOTAL: FIXED ITEMS	Item	
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item	
113	SUB - TOTAL: TIME - RELATED ITEMS	Item	
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	General Preliminaries		

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 2</u></p> <p><u>HEALTH AND SAFETY</u></p> <p><u>MODEL PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></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 & 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 & Safety Specifications.</p> <p>The costs included herein must incorporate Community Liaison Officer (CLO).</p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p>			
<p>Carried Forward</p> <p>Section No. 1 Bill No. 2 Health and Safety</p>		R	

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

Brought Forward			R
<u>General:</u>			
1	Preparation of Contractor's site specific Health and Safety Plan		Item
2	Submission of the Health and Safety File		Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item
5	Provision of full time Health and Safety Officer for the entire construction period.		Item
6	Induction training of all personnel	No	1
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	300
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>			
10	Reflective vests	No	20
11	Hard hats.	No	20
12	Protective foot wear.	No	20
13	Ear Plugs	No	20
14	Dust Masks.	No	20
<u>Costs of Medical Certificates and Medical Surveillance:</u>			
15	Initial (baseline) medical examinations for all personnel	No	1
Carried Forward			R
Section No. 1 Bill No. 2 Health and Safety			

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

		Brought Forward			R
16	Exit Examinations for all personnel.	No	1		
	<u>Noise Monitoring:</u>				
17	Establishment of noise zones.	No	2		
18	Audiograms.	No	20		
	<u>C16. Covid-19 Compliance Measures</u>				
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.		Item		
Carried Forward to Summary of Section No. 1					
Section No. 1					
Bill No. 2					
Health and Safety					

SECTION SUMMARY - Preliminaries

Bill No		Page No	Amount
1	General Preliminaries	20	
2	Health and Safety	23	
Carried to Final Summary			R
Section No. 1			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>SUNDRY BUILDERS WORK - ALL TRADES</u>			
	<u>MODEL PREAMBLES</u>			
	Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill.			
	<u>ALTERATIONS</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
1	50mm Waste pipe.	m	10	
2	Remove VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere)	No	3	
	<u>IRONMONGERY</u>			
	<u>BATHROOM FITTINGS</u>			
	<u>Stainless steel bathroom fittings</u>			
3	Free standing She Bin, manufactured from Grade 304 1,2/1,5mm stainless steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity	No	9	
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SANITARY FITTINGS</u>			
	Carried Forward			R
	Section No. 2 Bill No. 1 Alterations (Provisional)			

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

	Brought Forward			R
	<u>Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:</u>			
4	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3	
	<u>PVC waste or vent pipes and fittings:</u>			
5	50mm Waste pipe	m	20	
	<u>Extra over for:</u>			
6	50mm Bend	No	5	
7	50mm Access bend	No	5	
	Carried to Final Summary			R
	Section No. 2			
	Bill No. 1			
	Alterations (Provisional)			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>EXTERNAL WORKS</u>			
	<u>MODEL PREAMBLES</u>			
	Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill.			
	<u>STORM WATER CHANNELS</u>			
	<u>Excavation not exceeding 2m deep</u>			
1	Reducing levels and depositing excavated material in prescribed stock piles on site	m3	8	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
2	Off site to a dumping site to be found by the Contractor	m3	8	
	<u>Fillings supplied by the contractor under channels</u>			
3	G7 Base course material compacted to 98% Mod AASHTO density	m3	1	
4	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density	m3	1	
	<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open storm water channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster</u>			
5	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all form work, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	50	
6	Extra for 700mm angle	No	3	
	Carried Forward			R
	Section No. 3 Bill No. 1 External Works			

Brought Forward			R
7	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones	No	3
8	7m x 3m Reno mattresses to ends of storm water channels	No	3
<u>THE FOLLOWING IN DISABLED ACCESS</u>			
<u>ACCESS RAMPS</u>			
<u>Excavation not exceeding 2m deep</u>			
9	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	1
<u>Extra over bulk excavations in earth for breaking up and removing</u>			
10	Brickwork	m2	4
11	Unreinforced concrete	m3	1
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
12	Off site to a dumping site to be found by the contractor	m3	1
<u>Filling supplied by the contractor under floors, aprons, etc</u>			
13	G7 Base course material compacted to 98% Mod AASHTO density	m3	1
14	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density	m3	1
<u>Coarse river sand filling supplied by the contractor</u>			
15	Under floors etc.	m3	1
Carried Forward			R
Section No. 3 Bill No. 1 External Works			

Brought Forward			R
<u>Compaction of surfaces:</u>			
16	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	4
<u>Prescribed density tests on filling:</u>			
17	In-situ dry density test	No	1
<u>Reinforced 25Mpa/19mm Concrete</u>			
18	Ramps, Landings, etc.	m3	1
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
19	Surface beds, slabs, etc to falls and currents.	m2	4
<u>Test blocks:</u>			
20	Making and testing of 150x150x150mm concrete strength test cubes	No	1
<u>Expansion joints with bitumen impregnated soft board between vertical concrete or brick surfaces:</u>			
21	12mm Joints not exceeding 300mm high	m	4
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
22	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary	m	4
<u>Fabric reinforcement</u>			
23	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	4
<u>STORM WATER APRONS</u>			
<u>Excavation not exceeding 2m deep</u>			
24	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	4
Carried Forward			R
Section No. 3 Bill No. 1 External Works			

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

Brought Forward			R
	<u>Extra over bulk excavations in earth for breaking up and removing</u>		
25	Unreinforced concrete	m3	2
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
26	Off site to a dumping site to be found by the contractor	m3	2
	<u>Filling supplied by the contractor under floors, aprons, etc</u>		
27	G7 Base course material compacted to 98% Mod AASHTO density	m3	2
28	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density	m3	1
	<u>Coarse river sand filling supplied by the contractor</u>		
29	Under floors etc.	m3	1
	<u>Compaction of surfaces:</u>		
30	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	50
	<u>Prescribed density tests on filling:</u>		
31	In-situ dry density test	No	2
	<u>Reinforced 25Mpa/19mm Concrete</u>		
32	Ramps, Landings, etc.	m3	3
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
33	Surface beds, slabs, etc to falls and currents.	m2	50
Carried Forward			R
Section No. 3			
Bill No. 1			
External Works			

Brought Forward			R
	<u>Test blocks:</u>		
34	Making and testing of 150x150x150mm concrete strength test cubes	No	3
	<u>Expansion joints with bitumen impregnated soft board between vertical concrete or brick surfaces:</u>		
35	12mm Joints not exceeding 300mm high	m	50
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
36	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary	m	50
	<u>Fabric reinforcement</u>		
37	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	50
	<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>		
	<u>Excavation in earth not exceeding 2m deep:</u>		
38	Trenches	m3	10
	<u>Extra over all excavations for carting away:</u>		
39	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	10
	<u>Risk of collapse of excavations:</u>		
40	Sides of trench and hole excavations not exceeding 1,5m deep	m2	30
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>		
41	Backfilling to trenches, holes, etc.	m3	15
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>		
42	Under footings	m3	5
	Carried Forward		R
	Section No. 3 Bill No. 1 External Works		

Brought Forward			R
<u>Compaction of surfaces</u>			
43	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	30
<u>25 Mpa/19mm Concrete</u>			
44	Strip footings	m3	4
<u>Test blocks:</u>			
45	Making and testing of 150x150x150mm concrete strength test cubes (Provisional)	No	2
<u>Reinforcement (Provisional)</u>			
46	High tensile steel reinforcement bars to structural concrete work	t	0.09
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all purpose cement):</u>			
47	One brick walls	m2	38
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all purpose cement):</u>			
48	One brick walls	m2	35
<u>Brickwork reinforcement</u>			
49	230mm Wide reinforcement built in horizontally	m	38
50	Ditto but in foundations	m	22
<u>FACE BRICK</u>			
Carried Forward			R
Section No. 3 Bill No. 1 External Works			

Brought Forward			R
	<u>Clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>		
51	One brickwall faced on both sides	m2	40
	<u>Brick-on-edge header course copings, sills, etc, equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>		
52	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described	m	40
	<u>Bollards</u>		
53	200mm Top x 265mm base stellenbosch bollards, grey, 1.2m high and 900mm above ground to be installed in 15mpa screed at 1500mm centre to centre	No	35
	<u>SOAK AWAY</u>		
	<u>Site Clearance etc.</u>		
54	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	24
	<u>Excavation in earth not exceeding 2m deep</u>		
55	Holes	m3	3
	<u>Extra over all excavations for carting away</u>		
56	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	2
	<u>Risk of collapse of excavations</u>		
57	Sides of trench and hole excavations	m2	24
	Carried Forward		R
	Section No. 3 Bill No. 1 External Works		

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

	Brought Forward			R
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>			
58	Backfilling to holes	m3	2	
	<u>Earth filling with stone material supplied by the contractor</u>			
59	Stone (>53mm)	m2	16	
	<u>Membranes</u>			
60	BidimGeotextile or equal approved, lined on all sides including the top and bottom faces	m2	24	
	<u>Keeping excavations free of water</u>			
61	Keeping excavations free of all water other than subterranean water		Item	
Carried Forward to Summary of Section No. 3				
Section No. 3				R
Bill No. 1				
External Works				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>GRADE R FENCING</u>			
	<u>MODEL PREAMBLES</u>			
	Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill.			
	<u>Site clearance</u>			
1	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	120	
	<u>Straining wires, fencing and razor wire:</u>			
2	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	200	
3	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	120	
4	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	60	
	<u>Posts for 1 800mm high security fence:</u>			
5	60mm Diameter galvanised steel intermediate fencing post 2400mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	15	
	Carried Forward			R
	Section No. 3 Bill No. 2 Grade R Fence			

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

Brought Forward		R
6	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	6
7	150mm Ditto as gate post 2 400mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	6
8	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers	6
9	Form 12mm diameter hole through fence post.	6
<u>Gates:</u>		
10	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	1
<u>PADLOCKS</u>		
11	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	1
Carried Forward to Summary of Section No. 3		R
Section No. 3		
Bill No. 2		
Grade R Fence		

SECTION SUMMARY - External Works (Provisional)

Bill No		Page No	Amount
1	External Works	34	
2	Grade R Fence	36	
Carried to Final Summary			R
Section No. 3			

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>MODEL PREAMBLES</u>			
	Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	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.			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>COMMUNITY LIAISON OFFICER</u>			
1	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)	Item		22,500.00
2	Allow for profit and attendace	Item		
	<u>TEMPORARY TOILETS</u>			
3	Provide the sum of R100 000.00 (One Hundred and Twenty Thousand Rand) for the hire, maintenance and servicing of temporary ablutions for educators and learners during the entire constructions period	Item		100,000.00
4	Allow for profit and attendace	Item		
	Carried Forward		R	
	Section No. 4 Bill No. 1 Provisional Sums			

**MZANTSI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME - OMITTED SCOPE**

	Brought Forward		R
	<u>SERVICING OF PLUMBING LEAKAGES</u>		
5	Provide the sum of R45 000.00 (Forty Five Thousand Rand) for the servicing of plumbing items	Item	45,000.00
6	Allow for profit and attendance	Item	
	<u>GENERAL LANDSCAPING</u>		
7	Provide the sum of R50 000.00 (Fifty Thousand Rand) for general landscaping along walkways	Item	50,000.00
8	Allow for profit and general attendance	Item	
	Carried to Final Summary		R
	Section No. 4		
	Bill No. 1		
	Provisional Sums		

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	Preliminaries	24		
2	Builders Work	26		
3	External Works (Provisional)	37		
4	Provisional Sums	39		
	Sub Total 1		R	
	Add: (VAT 15%)		R	
	Carried to Cluster Summary		R	