

TMT-DBE-23/24-SAFEOS-ECCL143-1
The Mvula Trust SAFE Programme
SAFE Omitted Scope Schools Ablutions
Refurbishment to Existing Dyifani JSS

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>NOTES</u></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 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>			
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6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

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

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

9. If Alternative A as set out in clause 10.2 & 3 hereinafter is to be used for the adjustment of the preliminaries, 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 the tendered amount for the Preliminaries must be allocated to one or more of the following three categories 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><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions</u></p> <p>1 Definitions and interpretation (Clause 1). F:.....V:..... T:.....</p> <p><u>Objective and Preparation</u></p> <p>2 Offer and acceptance and performance (Clause 2). F:.....V:..... T:.....</p> <p>3 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'. F:.....V:..... T:.....</p> <p>4 Design responsibility (Clause 4). F:.....V:..... T:.....</p> <p>5 Employer's agents (Clause 5). F:.....V:..... T:.....</p>		Item			
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<p>6</p> <p>Site representative (Clause 6).</p> <p>Prior to the award of the contract, tenderers shall submit, upon request, the names of the proposed senior management personnel to be responsible for the supervision and administration of the works.</p> <p>Prior to the date of commencement of the works the contractor shall nominate senior site personnel to whom instructions may be issued.</p> <p>F:..... V:..... T:.....</p>		Item		
<p>7</p> <p>Compliance with regulation (Clause 7).</p> <p>A Health and Safety Specification is attached for pricing in Section No.14.</p> <p>F:..... V:..... T:.....</p>		Item		
<p>8</p> <p>Works risk (Clause 8).</p>		Item		
<p>9</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> <p>F:..... V:..... T:.....</p>		Item		
<p>10</p> <p>Works insurances (Clause 10).</p> <p>F:..... V:..... T:.....</p>		Item		
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11	Liability insurances (Clause 11). F:.....V:..... T:.....	Item		
12	Effecting insurances (Clause 12). F:.....V:..... T:.....	Item		
13	No Clause (Clause 13). F:.....V:..... T:.....	Item		
14	Security (Clause 14). F:.....V:..... T:.....	Item		
<u>Execution</u>				
15	Preparation for and execution of the works (Clause 15). F:.....V:..... T:.....	Item		
16	Access to the works (Clause 16). F:.....V:..... T:.....	Item		
17	Contract instructions (Clause 17). F:.....V:..... T:.....	Item		
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18	<p>Setting out of the works (Clause 18).</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> <p>F:..... V:..... T:.....</p>	Item		
19	<p>Assignment (Clause 19).</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Nominated subcontractors (Clause 20).</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Selected subcontractors (Clause 21).</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Employer's direct contractors (Clause 22).</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Contractor's domestic subcontractors (Clause 23).</p> <p>F:..... V:..... T:.....</p>	Item		
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Completion				
24	Practical completion (Clause 24). F:..... V:..... T:.....	Item		
25	Works completion (Clause 25). F:..... V:..... T:.....	Item		
26	Final completion (Clause 26). F:..... V:..... T:.....	Item		
27	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 accumulate in order to attend to a comprehensive list of defects" F:..... V:..... T:.....	Item		
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28	Sectional completion (Clause 28). F:.....V:..... T:.....	Item		
29	Revision for date of practical completion (Clause 29). F:.....V:..... T:.....	Item		
30	Penalty for non-completion (Clause 30). F:.....V:..... T:.....	Item		
	<u>Payment</u>			
31	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. F:.....V:..... T:.....	Item		
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32	Adjustment to the contract value (Clause 32). F:.....V:..... T:.....	Item		
33	Recovery of expense and loss (Clause 33). F:.....V:..... T:.....	Item		
34	Final account and final payment (Clause 34). F:.....V:..... T:.....	Item		
35	Payment to other parties (Clause 35). F:.....V:..... T:.....	Item		
	<u>Cancellation</u>			
36	Cancellation by Employer - Contractor's default (Clause 36). F:.....V:..... T:.....	Item		
37	Cancellation by Employer - Loss and damage (Clause 37). F:.....V:..... T:.....	Item		
38	Cancellation by Contractor - Employer's default (Clause 38). F:.....V:..... T:.....	Item		
39	Cancellation - Cessation of the works (Clause 39). F:.....V:..... T:.....	Item		
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40	<p><u>Dispute (A40)</u></p> <p>Dispute settlement (Clause 40).</p> <p>F:.....V:..... T:.....</p>	Item		
41	<p><u>State Provisions (A41)</u></p> <p>State Substitutions (Clause 41).</p> <p>F:.....V:..... T:.....</p>	Item		
42	<p><u>Schedule (A42)</u></p> <p>Pre-Tender information (Clause 42).</p> <p>F:.....V:..... T:.....</p>	Item		
<u>CONTRACTING AND OTHER PARTIES</u>				
<p>42.1.1 Employer: The Mvula Trust, Eastern Cape Province</p> <p>Contact Person: Mr. Takudzwa Kanda</p> <p>Postal Address: 67 Devereux Avenue, Vincent, East London, 5201</p> <p>Telephone: 043 726 2255.</p> <p>e-mail: takudzwa@themvulatrust.org.za</p> <p>Domicilium: 67 Devereux Avenue, Vincent, East London, 5201</p>				
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42.1.2 Agent's Service: Project Manager

Agent (1): Mr. Takudzwa Kanda

Postal Address: 67 Devereux Avenue, Vincent,
East London,
5201

Telephone: 043 726 2255.

e-mail: takudzwa@themvulatrust.org.za

Domicilium: 67 Devereux Avenue, Vincent,
East London,
5201

42.2 CONTRACT DETAILS

42.2.1 Works Description:
Refurbishments to SAFE Programme facilities.

42.2.2 Site Description :
The site is situated at the existing school premises.

42.2.3 Work or Installation by Direct Contractors:
(None)

42.2.4 This Agreement is for a State Contract : (Yes)

Payment will be made for materials and goods
on site: (Yes)

Dispute resolution method (Mediation (in terms
of clause 40) followed by litigation)

42.2.5 Contract period: As per Tender advert

42.2.6 Period for the commencement of the works after
the contractor takes possession of the site: 5
working days.

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42.2.7 Completions in sections are required: No

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

Date: 4.5 Calendar months after contract commencement including builders holidays

Penalty: 7.5 cents per R100 of construction amount per Calendar Day.

Intended dates of practical completion where section completion is required and the penalty per calendar day for the works in sections: N/A

42.2.9 Law applicable: Republic of South Africa

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42.3 INSURANCES

42.3.1 Contract works insurance to be effected by the :

CONTRACTOR

For the amount of: CONTRACT SUM + 20%

With a deductible of: R 5 000.00

42.3.2 Supplementary insurance 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

42.3.3 Public liability insurance to be effected by the

CONTRACTOR

For the amount of: R 5 000 000.00

With a deductible of: Not exceeding 5% of each and every claim

42.4 DOCUMENTS

42.4.1 Waiver of the contractor's lien or right of continuing possession is required: (Yes)

42.4.2 Number of construction document copies to be supplied free of charge: 1 (ONE)

42.4.3 This document is drawn up in accordance with the ASAQs Standard System of Measuring Building Work: (YES) Sixth Edition, revised in February 1999.

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42.4.4 Number of days for submission of priced documents: 5 working days from the Letter of Appointment.

Priced bills of quantities to be submitted with tender form of acceptance.

The tender document should be filled in throughout strictly with a black-inked pen.

42.4.5 JBCC Engineering General Conditions are to be included in the documents: (No)

42.4.6 The contract value to be adjusted using CPAP: (NO)

42.4.7 Details of changes made to the provisions of JBCC standard documentation: (As stated)

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<u>SECTION B: PRELIMINARIES</u>			
<u>Definitions (B1):</u>			
43 Definitions and interpretation (B1)			
F:.....V:..... T:.....	Item		
<u>Documents (B2):</u>			
44 Checking of documents (B2.1)			
<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>These Bills of Quantities contain pages and annexures as indexed.</p> <p>The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 2008 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained.</p>			
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45	<p>Provisional Bills of Quantities (B2.2)</p> <p>The Quantities are Provisional (YES)</p> <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> <p>F:..... V:..... T:.....</p>	Item		
46	<p>Availability of construction documentation (B2.3)</p> <p>F:..... V:..... T:.....</p>	Item		
47	<p>Interests of Agents (B2.4)</p> <p>F:..... V:..... T:.....</p>	Item		
48	<p>Priced documents (B2.5)</p> <p>F:..... V:..... T:.....</p>	Item		
49	<p>Tender submission (B2.6)</p> <p>Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 calendar days from the closing date of tenders.</p> <p>F:..... V:..... T:.....</p>	Item		
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<p>50</p>	<p><u>The Site (B3)</u></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> <p>F:.....V:..... T:.....</p>	<p>Item</p>		
<p>51</p>	<p>Geotechnical investigation (B3.2)</p> <p>(Please see attached Geotechnical Investigation Report Annexure E).</p> <p>F:.....V:..... T:.....</p>	<p>Item</p>		
<p>52</p>	<p>Inspection of the Site (B3.3)</p> <p>No claims for extras arising from the contractor having failed to comply with this clause will be entertained.</p> <p>A compulsory, site clarification meeting will be held at the proposed site in line with the tender advert.</p> <p>F:.....V:..... T:.....</p>	<p>Item</p>		
<p>53</p>	<p>Existing premises occupied (B3.4) (No)</p> <p>F:.....V:..... T:.....</p>	<p>Item</p>		
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54	Previous work - dimensional accuracy (B3.5) F:.....V:..... T:.....	Item		
55	Previous work - defects (B3.6) F:.....V:..... T:.....	Item		
56	Services - known (B3.7) Existing services and points of connection are known and will be pointed out on site by the Principal Agent. F:.....V:..... T:.....	Item		
57	Services - known (B3.8) F:.....V:..... T:.....	Item		
58	Protection of trees (B3.9) F:.....V:..... T:.....	Item		
59	Articles of value (B3.10) F:.....V:..... T:.....	Item		
60	Inspection of adjoining properties (B3.11) F:.....V:..... T:.....	Item		
	<u>Management of contract (B4)</u>			
61	Management of the Works (B4.1) F:.....V:..... T:.....	Item		
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62	<p>Programme for the Works (B4.2)</p> <p>Added to the provisions in (B4.2), the contractor shall ensure that he/she has suitable staff to programme the works using suitable and recognised programming software and the programme for the work is to be developed in sufficient detail indicating an activity network with early and late start dates, early and late finish dates and duration for each activity, further each activity is to be linked and the critical path indicated. Furthermore, the programming of the works shall include detailed documentation and information required schedule which indicates latest dates by which information is required in order to achieve programme dates.</p> <p>F:.....V:..... T:.....</p>	Item		
63	<p>Progress meetings (B4.3)</p> <p>F:.....V:..... T:.....</p>	Item		
64	<p>Technical meetings (B4.4)</p> <p>F:.....V:..... T:.....</p>	Item		
65	<p>Labour and plant records (B4.5)</p> <p>F:.....V:..... T:.....</p>	Item		
<u>Samples and shop drawings (B5)</u>				
66	<p>Samples of materials (B5.1)</p> <p>F:.....V:..... T:.....</p>	Item		
67	<p>Workmanship samples (B5.2)</p> <p>F:.....V:..... T:.....</p>	Item		
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68	Shop drawings (B5.3) F:.....V:..... T:.....	Item		
69	Compliance with manufacturer's instructions (B5.4)	Item		
	<u>Temporary works and plant (B6)</u>			
70	Deposits and fees (B6.1) F:.....V:..... T:.....	Item		
71	Enclosure of the works (B6.2) No access to public shall be allowed on site at all times and strict access control shall be maintained during the construction period. The contractor shall fully enclose the works by providing a 2m high diamond mesh fence or suitably similar and approved including access gates, posts. The fence shall be maintained throughout the contract and removed on completion of the contract. F:.....V:..... T:.....	Item		
72	Advertising (B6.3) F:.....V:..... T:.....	Item		
73	Plant, equipment, sheds and offices (B6.4) F:.....V:..... T:.....	Item		
74	Office accommodation for meetings held on the site which shall be kept clean and fit for use at all times (B6.4.3). F:.....V:..... T:.....	Item		
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75	Main notice board (B6.5). One notice board shall be provided by the Contractor F:.....V:..... T:.....	Item		
76	Subcontractors notice board (B6.6). F:.....V:..... T:.....	Item		
<u>Temporary Services (B7)</u>				
77	Location (B7.1). F:.....V:..... T:.....	Item		
78	Water (B7.2) Alternative chosen: A F:.....V:..... T:.....	Item		
79	Electricity (B7.3) Alternative chosen: A F:.....V:..... T:.....	Item		
80	Telecommunication equipment (B7.4) F:.....V:..... T:.....	Item		
81	Ablution facilities (B7.5) Alternative chosen: A F:.....V:..... T:.....	Item		
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<u>Prime cost amounts (B8)</u>				
82	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
<u>Attendance on Nominated/Selected Subcontractors (B9)</u>				
83	General Attendance (B9.1) F:..... V:..... T:.....	Item		
84	Special Attendance (B9.2) F:..... V:..... T:.....	Item		
85	Commissioning - fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
<u>Financial Aspects (B10)</u>				
86	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
87	Payment of Preliminaries (B10.2) F:..... V:..... T:.....	Item		
88	Adjustment of Preliminaries (B10.3) F:..... V:..... T:.....	Item		
89	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
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General (B11)				
90	Protection of the Works (B11.1) F:.....V:..... T:.....	Item		
91	Protection/isolation of existing/sectionally occupied works (B11.2) F:.....V:..... T:.....	Item		
92	Site security (B11.3) F:.....V:..... T:.....	Item		
93	Notice before covering work (B11.4) F:.....V:..... T:.....	Item		
94	Disturbance (B11.5) F:.....V:..... T:.....	Item		
95	Environmental disturbance (B11.6) F:.....V:..... T:.....	Item		
96	Works cleaning and clearing (B11.7) F:.....V:..... T:.....	Item		
97	Vermin (B11.8) F:.....V:..... T:.....	Item		
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98	<p>Overhand work (B11.9)</p> <p>F:.....V:..... T:.....</p> <p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p><u>Section C: Specific Preliminaries:</u></p>	Item			
99	<p>Proprietary branded products</p> <p>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> <p>F:.....V:..... T:.....</p>	Item			
100	<p>Trade Names, etc.</p> <p>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.</p> <p>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> <p>F:.....V:..... T:.....</p>	Item			
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101	<p>Contractors responsibility</p> <p>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> <p>F:.....V:..... T:.....</p>	Item		
102	<p>Overtime</p> <p>Tenderers will be allowed to work two shifts in order to meet the completion date. Any costs associated with this requirement will be priced under this item</p> <p>Should overtime be required to be worked for any other 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>	Item		
103	<p>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>F:.....V:..... T:.....</p>	Item		
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104	<p>Site 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.</p> <p>F:.....V:..... T:.....</p>	Item		
105	<p>Non Cession of Monies</p> <p>The Contractor shall NOT cede nor assign his rights or claims to any monies due or to become due under this contract.</p> <p>F:.....V:..... T:.....</p>	Item		
106	<p>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> <p>F:.....V:..... T:.....</p>	Item		
107	<p>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> <p>F:.....V:..... T:.....</p>	Item		
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108	Encroachment	<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> <p>F:.....V:..... T:.....</p>	Item		
109	Method Statement	<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>	Item		
110	Unauthorised Persons/Workmen on Premises	<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> <p>F:.....V:..... T:.....</p>	Item		
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111	Mode of Procedure	Item	R
<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> <p>F:.....V:..... T:.....</p>			
112	Location of Temporary Buildings and Temporary Services	Item	R
<p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> <p>F:.....V:..... T:.....</p>			
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113	<p>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> <p>F:.....V:..... T:.....</p>	Item		
114	<p>Storage Facilities</p> <p>The Contractor shall provide a Container for storage of materials.</p> <p>F:.....V:..... T:.....</p>	Item		
115	<p>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 there from.</p> <p>F:.....V:..... T:.....</p>	Item		
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	<p><u>SECTION NO.1</u></p> <p><u>BILL NO. 2</u></p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained</p>			
	<p>Carried to Collection</p>			R
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SUPPLEMENTARY PREAMBLES

Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.

The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.

Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.

The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.

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

1.1 Preparation and submission of Health and Safety Plan.

- 1 The preparation and submission of the Safety and Health Plan which must be based on the issued Health and Safety Specifications.

SUM

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<u>1.2 Preparation and submission of the Health and Safety File</u>				
2	The preparation and submission of the Health and Safety File that contains all the required documentation as would be necessary for the proper administration of OHS on site.			SUM
<u>1.3 OHS Management System</u>				
3	Monitoring, review and maintenance of Occupational Safety and Health management system as and when required.			SUM
<u>1.4 The Safety and Health Committee.</u>				
Conduct OHS meetings and inspections during the duration of the contract as below;				
4	a) Health and Safety committee meetings held monthly for the duration of the contract.	No	4.00	
5	b) Site Safety and Health inspection for the workplace (once in every four months) for the duration of the contract.	No	4.00	
<u>1.5 Preparation and submission of COVID19 documentation</u>				
6	The preparation of COVID19 file and inclusion of a COVID19 Plan in it that must be based on the COVID19 Specifications issued.			SUM
7	The preparation and inclusion in a the COVID19 file, COVID19 screening forms.			SUM
8	The preparation and inclusion in a the COVID19 file, COVID19 Risk Assessment, Toolbox Talks and communication sheets.			SUM
9	The preparation and inclusion in a the COVID19 file, COVID19 Induction and policy.			SUM
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	<u>1.6 Appointment of Health and Safety Officer</u>				
10	Full time competent Health and Safety Officer for the entire duration of the contract.				SUM
	<u>1.7 Training of Health and Safety Representatives</u>				
11	Training of two Health and Safety Representatives to enable proper execution of responsibilities in terms of Section 17 of the Act.				SUM
	<u>1.8 Medical Check Up</u>				
12	Conduct health fitness by a registered medical practitioner at least on yearly basis to ensure their operator/workers are in good health before and during their engagement in the period of contract.				SUM
	<u>1.9 Personal Protective Equipment</u>				
13	Provide, maintain and replace any damage personal protective equipment as per specification to all employees.				SUM
	<u>1.10 Health and Safety Training</u>				
	<u>Plan and conduct relevant safety and health training plan as per site requirement.</u>				
14	Fire Fighting Training	No	4.00		
15	Fall Protection Planner	No	4.00		
16	Scaffold Erectors	No	4.00		
17	Scaffold Inspector	No	4.00		
18	Scaffold Supervisor	No	4.00		
19	Scaffold Team Leader	No	4.00		
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	<p><u>1.11 Hazards Identification Risk Assessment And Risk Control (HIRARC)</u></p>			
20	Prepare and undertake Hazards Identification, Risk Assessment and Risk controls (HIRARC) for all construction activities.		SUM	
	<p><u>1.12 Monthly Report</u></p>			
21	Printing/copying, papers, inks, binding or related cost in providing the monthly report within the contract period inclusive of any investigation expertise.		SUM	
	<p><u>1.13 Notification of Accidents, Dangerous Occurrences, Occupational Diseases</u></p>			
22	Provision for Accident / Incident Investigation Report inclusive for the cost to engage if there is any third parties involve (competent person / specialist) to investigate any accident at workplace.		SUM	
	<p><u>1.14 General Signage</u></p> <p>Safety signage at workplace to ensure the workers and the public are aware about safety within the contract period.</p> <p><u>Provide, install and maintain the following approved signage</u></p>			
23	Construction Signboard indicatring mandatory PPE to be worn on site.		SUM	
24	Signs indicating what to do and where to report with directional signs		SUM	
25	Emergency exit routes and assembly point.		SUM	
26	Any other safety signs as instructed and approved by the S.O.		SUM	
27	"No unauthorised entry" signage around site perimeter.		SUM	
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	<p><u>1.16 First Aid Facilities.</u></p> <p><u>Provision of complete set of first aid kit for office and quarters within the period of contract. Minimum requirement to be at site are two competent / trained First Aider and two complete first aid kits.</u></p>				
28	a) To provide suitable two (2) trained person to attend first-aid treatment.	No	4.00		
29	b) To provide and maintain first aid kit.	No	4.00		
	<p><u>1.17 Portable Fire Extinguisher.</u></p> <p><u>Provide enough fire extinguishers at the workplace. The locations of the fire extinguishers include the site office, quarters and standby for any hot works activities within the contract period.</u></p>				
30	Provision and maintenance of approved fire extinguishers complete with relevant approved signage.				SUM
	<p><u>Part 2 Amenities and Facilities (Construction Site and Site Accommodation)</u></p> <p><u>2.1 Toilets</u></p>				
31	Provide, maintain and the dislodging of toilets for workers. Toilet shall be connected to a sewer / temporary septic tank with the approval of the relevant competent authority. Contractor shall estimate the number of workers for entire project and at least 1 toilet per every 25 workers. For every 100 workers, there should be 4 numbers of toilet.				SUM
	<p><u>2.2 Temporary structures and sanitary conveniences at construction sites</u></p>				
32	Temporary site office with adequate lighting and ventilation.				SUM
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33	Sanitary facilities in the ratio of 1 water closet, 1 shower and 1 wash basin for every 25 workers or less shall be provided. The toilet facilities shall be connected to a sewer/temporary septic tank.			SUM	
	<u>2.3 Temporary rest area</u>				
34	Provide and maintain rest area for the workers and site staff with safe area, ventilated and lighted.			SUM	
	<u>2.4 Lighting</u>				
35	Provide adequate lighting in dark environment at work areas, access and egress.			SUM	
	<u>Part 3 Fall Prevention</u>				
	<u>3.2 Safety nets</u>				
36	Install and maintain safety net as close as possible to the working level. Should it be on the outside of the structure, the outer edges should be higher than the inner edge. Contractor to calculate the area to be close/cover based on the proposed design of the building.			SUM	
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Special care is to be exercised not to interfere with any electrical installation, and notice is to be given to the Representative/Agent when any disconnections, removal of wire, etc., are necessary and the Contractor is to afford every facility to the workmen carrying out his work.

The Contractor shall not remove or interfere with any furniture, fittings or similar articles unless specially mentioned in the following items and shall give adequate notice to the Representative/Agent if the removal of any such articles from parts of the buildings are to be altered becomes necessary so that the Employer may have same removed before the Contractor commences work in such parts.

The Contractor will be held solely responsible for any damage to persons and property and for the safety of the structures and must make good at his own expense any damage that may occur.

Damage and repairs to services:

Should the Contractor damage any services which are to remain in operation or any services which have not yet been disconnected prior to removal, then the Contractor will be held solely responsible for such damage and any further resultant damage.

The Contractor shall immediately notify the Representative/Agent and the Authorities concerned and he shall at his own cost make all necessary arrangements for disconnection and repairs with the relevant Authorities and shall pay all fees and charges levied.

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Disposal of material:

All existing materials specified to be "removed", "demolished and removed", "hacked up or off and removed", or "taken down or off and removed" or "broken down and removed", etc., become the property of the Contractor. These materials and all debris, rubbish and earth material must be carted away by the Contractor and the site must be left clean and unencumbered. The contractor must make his own arrangements for dumping and shall pay all fees and charges levied.

If any of the bricks or other materials specified to be "removed" are sound and considered suitable for any portion of the new work they must be thoroughly cleaned off and stacked on site for inspection by the Representative/Agent. The approval of the Representative/Agent must be obtained before any such materials are re-used in the new work.

All existing materials specified to be "taken down and set aside for re-use" or "taken down and set aside" shall remain the property of the Employer and must be cleaned off, cleared of all nails, etc., and neatly stacked and stored on site by the Contractor where directed and carefully handled during taking down, storage and re-fixing. The Contractor will be held responsible for the safety of these materials and must take all the necessary precautions for their protection and any damage or loss that may occur must be made good by the Contractor at his own expense.

BUDGETARY ALLOWANCES

Budgetary allowances:

- 1 Provide the amount of R 50 000.00 (Fifty Thousand Rands) for Budgetary allowance provision for Alteration Works as-and-when encountered.

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50 000.00

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REMOVAL OF EXISTING WORK

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):

2	VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere) complete.	No	4
3	40mm PVC piping including fittings and holderbats.	m	4
4	110mm Ditto.	m	4

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1	<p>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 20litre capacity.1750</p>	No	8	
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<u>Sealing of edges:</u>				
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone and prices must include therefo				
<u>uPVC pipes and fittings:</u>				
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
<u>uPVC pressure pipes and fittings:</u>				
Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings				
Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints				
<u>SANITARY FITTINGS (PROVISIONAL)</u>				
<u>Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:</u>				
1 VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	4		
<u>SANITARY PLUMBING (PROVISIONAL)</u>				
<u>uPVC pipes:</u>				
2 40mm Pipes fixed to or chased into brickwork.	m	12		
3 110mm Pipes fixed to or chased into brickwork.	m	8		
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>EXTERNAL WORKS</u></p> <p><u>BILL No.1</u></p> <p><u>SEWER RETICULATION (PROVISIONAL)</u></p> <p><u>SOIL DRAINAGE</u></p> <p><u>Inspection Chambers Including Excavation, Risk Of Collapse, Keeping Excavations Free Of Water, Backfilling And Ramming(Carting Away Elsewhere Measured), Building In Or Holing Sides For Pipes And Making Good To Same</u></p>			
1	Excavate in earth for working space (at Contractor's discretion) exceeding 500mm and not exceeding 1500mm deep to side of inspection chamber for building brick walls and return, fill and consolidate spoil on completion. (Distance from face of inspection chamber to side of excavation is 75mm).	m2	22	
2	Precast concrete inspection chamber size 1000mm diameter x 1000mm max deep including heavy duty precast concrete cover slab, cast iron step irons, 150mm thick cement concrete (20MPa) bottom projecting 75mm all round and benching, benched up and floated smooth and including necessary channels, fittings and sealing joints between manhole rings with Bitu-Joint sealer (cast iron cover elsewhere measured).	No	5	
	Carried to Collection			R
	Section No. 3 Bill No. 1 Soil Drainage (Provisional) Quantum Built & Environment Consultants			

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3	Precast concrete inspection chamber size 1000mm diameter x 1750mm deep including heavy duty precast concrete cover slab, cast iron step irons, 150mm thick cement concrete (20MPa) bottom projecting 75mm all round and benching, benched up and floated smooth and including necessary channels, fittings and sealing joints between manhole rings with Bitu-Joint sealer (cast iron cover elsewhere measured).	No	2		
4	Extra over excavation in earth as described for drain trenches, inspection chambers, etc., for excavation in soft rock.	m3	1		
5	Ditto, but in hard rock.	m3	0.5		
6	Extra over all excavations for drain trenches for carting away from the site all surplus material from the excavations (measured net - no allowance for bulking).	m3	9		
7	Extra over backfilling to drain trenches not exceeding 1000mm deep for compacting to 95% Mod AASHTO density under paving.	m3	1		
8	Imported G7 material as backfill to pipe trenches under roads and compact in 150mm layers to 93% modified AASHTO density.	m3	8		
9	Ditto, but and make good including to dampproof sheeting under.	m	45		
10	550mm Diameter x 75kg type 4A code 2260 cast iron two piece cover and frame bedded on top of precast concrete manhole cover slab.	No	7		
	<u>Sundries</u>				
11	Cement concrete (15MPa) in encasing to 110mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing.	m	11		
	Carried to Collection				R
	Section No. 3 Bill No. 1 Soil Drainage (Provisional) Quantum Built & Environment Consultants				

<u>SEWER RETICULATION</u>					
12	Cut into existing manhole and connect up new 110mm PVC channel including all fittings and making good to benching in manhole.	No	2		
	<u>Solid Wall uPVC Socketed Soil Piping (SABS 791) Including Short Lengths, Cutting, Jointing, Laid In Trenches Including Compacted Bedding Cradle And Fill Blanket As SABS 1200 LB (Flexible Pipe Bedding), Excavation, Risk Of Collapse, Keeping Excavations Free Of Water And Backfilling With Selected Material From The Excavations As SABS 1200 DB</u>				
13	Ditto, but excavation exceeding 1000mm and not exceeding 2000mm deep.	m	45		
	<u>Extra For</u>				
14	110mm 45 Degree bend.	No	11		
15	110mm 90 Degree bend.	No	1		
	Carried to Collection				R
	Section No. 3 Bill No. 1 Soil Drainage (Provisional) Quantum Built & Environment Consultants				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORKS</u>			
	<u>BILL No.2</u>			
	<u>WATER RETICULATION (PROVISIONAL)</u>			
	NOTE:The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section. -----			
	<u>WATER SUPPLIES (DOMESTIC AND FIRE)</u>			
	<u>Class 12 HDPE pipes:</u>			
1	30mm Pipes.	m	9	
2	30mm Pipes laid in and including trenches not exceeding 1m deep.	m	21	
	<u>Extra over class 12 HDPE pipes for fittings:</u>			
3	30mm bend.	No	6	
4	30mm Tee.	No	3	
5	30mm End cap.	No	2	
	<u>Sundries.:</u>			
6	Water valve inspection chamber measuring approximately 645 x 645mm on plan complete with concrete surface bed, brick chamber below not exceeding 1000mm deep internally and cover gratings, etc.	No	2	
	Carried to Collection			R
	Section No. 3			
	Bill No. 2			
	Bulk Water Supply (Provisional)			
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7	Unreinforced concrete thrust blocks in trenches at bends, tees, etc. including extra excavation, formwork, etc (Provisional).	m3	0.1		
	<u>Testing.:</u>				
8	Testing water pipe system.		Item		
	<u>SOIL DRAINAGE</u>				
	<u>Class 6 Corflo uPVC pipes.:</u>				
9	110mm Pipes laid vertically or ramped to backdrops, rodding eyes, etc (no excavations).	m	3		
10	110mm Pipes laid in and including trenches not exceeding 1m deep.	m	20		
	<u>Extra over class 6 Corflo uPVC pipes for fittings.:</u>				
11	110mmx45° PVC UG plain bend.	No	4		
12	110mmx110mm PVC SV IE junction.	No	5		
	<u>Sumps, catchpits, inspection chambers, etc (gratings and covers elsewhere).:</u>				
13	Pre-cast concrete inspection chamber size 1000mm internal diameter not exceeding 1000mm deep internally, complete with 150mm thick pre-cast concrete cover slab with rebated opening for cover and frame, benching in bottom chamber and dished down to channels.	No	2		
	<u>Covers, etc.:</u>				
14	740mm Diameter 204kg cast iron manhole cover and frame.	No	2		
15	Lifting key for manhole cover (To be handed over to employer upon completion).	No	2		
	Carried to Collection				R
	Section No. 3				
	Bill No. 2				
	Bulk Water Supply (Provisional)				
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	<u>Pipe connections.:</u>				
16	Excavate to expose and break into side of existing manhole, break through side into manhole for new 110mm uPVC pipe connection, including changing benching, etc to accommodate new connection.	No	2		
	<u>Encasing pipes in concrete.:</u>				
17	15MPa/19mm Unreinforced concrete encasing minimum 200mm thick all round 110mm pipes (pipes elsewhere measured) including any additional excavation, formwork, etc.	m	5		
	<u>Sundries.:</u>				
18	110mm Gulley trap with hopper head.	No	2		
19	Testing soil drainage system.		Item		
	Carried to Collection				R
	Section No. 3				
	Bill No. 2				
	Bulk Water Supply (Provisional)				
	Quantum Built & Environment Consultants				

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>EXTERNAL WORKS</u>			
	<u>BILL No.3</u>			
	<u>STORMWATER, ACCESS & PARKING (PROVISIONAL)</u>			
	<u>DEMOLITIONS, ETC</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Break Up And Remove Reinforced Concrete In</u>			
1	Reinforced concrete surface bed.	m3	0.3	
	<u>STORMWATER DRAINAGE</u>			
	<u>EARTHWORKS</u>			
	<u>Site Clearance</u>			
2	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	280	
	<u>Excavations, Etc</u>			
3	Excavate in earth to reduce levels under pavings not exceeding 2000mm deep.	m3	95	
4	Ditto, but spreading and levelling over site within 200mm radius.	m3	42	
	Carried to Collection			R
	Section No. 3			
	Bill No. 3			
	Stormwater Drainage (Provisional)			
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	<u>Extra Over All Excavations For Carting Away Of</u>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	95		
	<u>Keeping Excavations Free Of Water</u>				
6	Allow for keeping excavations free from water.		Item		
	<u>Earth Filling Selected And Supplied By The Contractor, Deposited In Layers Not Exceeding 150mm Thick, Watered And Consolidated</u>				
7	G7 type material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under pavings.	m3	42		
	<u>Scarify, Mix And Consolidate Top 150mm Of Subgrade</u>				
8	To platforms to 93% modified AASHTO density.	m2	280		
	<u>Prescribed Density Tests As Check On Contractors Tests Included In Filling Above</u>				
9	Modified AASHTO density test and deliver the results to the Architect within 24 hours of the tests being completed.	No	31		
	<u>CONCRETE</u>				
	<u>Concrete</u>				
10	Slabs including beams and inverted beams.	m3	1		
11	Cement concrete (25MPa) in stormwater apron cast in panels not exceeding 3m2.	m3	9		
12	Cement concrete (25MPa) in stormwater channel cast in panels not exceeding 3m2.	m3	53		
	Carried to Collection				R
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage (Provisional)				
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	<u>Test blocks:</u>				
13	Set of three concrete test cubes size 150 x 150 x 150mm overall including testing (Provisional).	Sets	90		
	<u>Concrete Sundries</u>				
14	Float top of concrete v-shaped stormwater channel/apron to falls with a wood float whilst the concrete is still green with the addition of 2.1 sand and cement as necessary.	m2	283		
	<u>FORMWORK</u>				
	<u>Class F1 Rough Formwork To</u>				
15	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	461		
	<u>Movement Joints, Etc</u>				
16	Expansion joint not exceeding 300mm high or wide formed of one layer 10mm thick bitumen impregnated softboard joint filler set between vertical concrete or brick surfaces.	m	212		
	<u>REINFORCEMENT</u>				
17	High tensile steel mesh reinforcement Ref. 193 to concrete surface beds, slabs, etc.	m2	283		
	<u>Catchpits, inspection chambers, etc including excavation, risk of collapse, keeping excavations free of water, backfilling and ramming (carting away elsewhere measured), building in or holing sides for pipes and making good to same</u>				
18	100mm Thick (20MPa) spreader 1500mm long and average 1200mm wide with nine concrete bricks cast in as brick-on-end diffusers in three rows including floating off concrete to a smooth finish, earthworks, formwork, etc.	No	2		
	Carried to Collection				R
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage (Provisional)				
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<p>19</p>	<p>Headwall comprising 150mm thick steel floated cement concrete (15MPa) bottom average 800mm wide x 900mm long with 1000mm long toe size 230 x 300mm high to front edge, one brick headwall 2600mm girth x average 595mm high with 450mm diameter stormwater pipe built through same and finished on all exposed surfaces in 3.1 cement plaster.</p>	<p>No</p>	<p>2</p>	<p>R</p>
<p align="right">Carried to Collection</p>				
<p>Section No. 3 Bill No. 3 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants</p>				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>EXTERNAL WORKS</u></p> <p><u>BILL NO.4</u></p> <p><u>FENCING, ETC</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained The following</p> <p>"Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles</p>			
	Carried to Collection			
	Section No. 3 Bill No. 4 Fencing and Railing Quantum Built & Environment Consultants			R

SUPPLEMENTARY PREAMBLES

Nature of ground:

The nature of the ground is assumed to be loose sandy material, gravel or silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"

Should the Contractor encounter any "soft" or "hard" rock in the excavations, he shall immediately notify the Engineer who shall be the sole arbiter as to what constitutes "soft" or "hard" rock for final account purposes

Subterranean water:

Subterranean water levels will vary from site to site
The Contractor shall inform the Principal Agent of any subterranean water encountered on site and submit recommendations and a cost for keeping works free from

subterranean water

Carried

Subterranean water:

Subterranean water levels will vary from site to site
The Contractor shall inform the Principal Agent of any subterranean water encountered on site and submit recommendations and a cost for keeping works free from

subterranean water

Carried to Collection

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Section No. 3

Bill No. 4

Fencing and Railing

Quantum Built & Environment Consultants

	<u>DEMOLITIONS, ETC</u>				
	<u>Taking down and removing:</u>				
1	Wire mesh fencing and gates including steel post, concrete base, fence, disconnecting barber wire fence not exceeding 2m high and prepare for new palisade fence (palisade fence elsewhere)	m	12		
	<u>STORMWATER DRAINAGE</u>				
	<u>EARTHWORKS</u>				
	<u>Site Clearance</u>				
2	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	2		
	<u>EXCAVATION OTHER THAN BULK.</u>				
	<u>Excavation in all materials other than rock not exceeding 2m deep:</u>				
3	Holes.	m3	3		
	<u>Risk of collapse of excavations other than bulk:</u>				
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	31		
	<u>CARTING AWAY.</u>				
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
5	Off site to a dumping site to be found by the Contractor.	m3	3		
	Carried to Collection				R
	Section No. 3 Bill No. 4 Fencing and Railing Quantum Built & Environment Consultants				

<u>KEEPING EXCAVATIONS FREE OF WATER.</u>				
<u>Keeping excavations free of water:</u>				
6 Keeping excavations free of all water other than subterranean water.		Item		
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>REINFORCED CONCRETE</u>				
<u>25 Mpa/19mm Concrete:</u>				
7 Bases. m3		3		
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
8 Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional). Sets		1		
<u>FENCING</u>				
<u>GALVANISED STEEL SECURITY FENCING</u>				
<u>Hot dipped galvanised posts, stays, bolts, etc and class "a" weldmesh security type fencing</u>				
9 Four strands of 4mm galvanised straining wires secured to fencing posts with doubled 2mm 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 and the other end to straining bolts (elsewhere measured). m		340		
Carried to Collection				R
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10	Approved 500mm diameter flat wrap of galvanised razor barbed tape wire fixed vertically to and including two rows of double stranded barb wire to top of security fence and secured to barbed and straining wire (elsewhere measured) with and including 2.5mm diameter galvanised binding wire at 300mm centres.	m	85		
11	Fencing formed of 50 x 50 x 2.5mm diameter galvanised Secumesh security fence 1800mm high with vertical wires facing outwards secured with hogring clips applied with hogring pliers at 300mm centres to top and bottom straining wires and 500mm centres to four intermediate straining wires (straining wires elsewhere measured) including holes through posts.	m	85		
	<u>Fencing posts, etc.</u>				
12	8mm Diameter x 150mm long galvanised mild steel bolt with nut and washer including hole through post.	No	4		
13	12mm Diameter x 300mm long galvanised mild steel straining eye bolt with nut and washer including hole through post.	No	4		
14	60,3mm Diameter x 2mm raking strut 2750mm long, fitted with 150 x 150 x 3mm base plate and with top end flattened and bolted through post (bolts elsewhere measured) and embedded in 450 x 780 x 600mm mass concrete (15MPa) base projecting 50mm above ground with splayed corner all round and spreading and levelling excavated material over site.	No	4		
15	76,2mm Diameter x 2mm galvanised steel intermediate fencing post 3000mm long fitted with a pressed steel mushroom cap and 150 x 150 x 3mm baseplate at bottom and embedded in 300 x 300 x 700mm mass concrete (15MPa) base ditto.	No	28		
16	101,6mm Diameter x 2mm end or corner post 3000mm long, ditto and bedded in 350 x 350 x 700mm mass concrete (15MPa) bases ditto.	No	2		
	Carried to Collection				R
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17	Inclined stay 3000mm long with one end bolted to post and other end with sole plate bolted to concrete (bolts elsewhere)	No	4		
18	Straining or corner post 3000m long with sole plate bolted to concrete (bolts elsewhere)	No	2		
19	M16 x 150mm "Hilti" HSA stud anchor	No	12		
	<u>Gates</u>				
20	Double gate size 4000mm wide x 1800mm high, each leaf formed of 50mm diameter x 2,5mm perimeter framing and one diagonal brace, all scribed and welded at corners and intersections, covered with weldmesh and straining wires all as per above described fencing, three 24mm diameter x 300mm long eyebolt hinges welded or bolted to adjoining galvanised gate post, 12mm diameter x 300mm long drop bolt, one 500mm long heavy duty chain spot welded to gate and Union padlock no. 3122.	No	2		
21	25mm Mild steel link chain 1500mm long with each end fitted with 40 x 20mm diameter ring for and including padlock	No	2		
	<u>PAINTWORK</u>				
	<u>Remove all traces of protective coating from galvanised surfaces with galvanised iron cleaner, prepare and apply one coat galvanised iron primer, one undercoat and two coats high gloss enamel on</u>				
22	Steel gates (measured on flat over both sides).	m2	9		
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Section No. 3 Bill No. 4 Fencing and Railing <u>COLLECTION</u>			
Total Brought Forward from Page No.	Page No 65		Amount
	66		-----
	67		-----
	68		-----
	69		-----
	70		-----
<p align="center">Carried Forward to Summary of Section No. 3</p>			R
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>EXTERNAL WORKS</u></p> <p><u>BILL NO.5</u></p> <p><u>RETAINING WALL</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>Nature of Ground.:</u></p> <p>The soil material on site varies according to the depths excavated. Between 0 and 300mm of excavation, the topsoil is moist, dark brown, med dense, uniform silty sand. Between 300mm and 600mm of excavation, the nature of soil is slightly moist, light yellowish orange, med dense and uniform silty sand. Further below between 600mm and 1000mm, the soil nature slightly moist, dark brown blotched grey, very dense, uniform clayey and silty soil.</p> <p>(For more details on the soil conditions, please refer to the attached geotechnical investigation report marked as annexure E).</p> <p>Descriptions of excavations shall be deemed to include all ground conditions classified as "earth" described in the above report and where more difficult character as indicated, these are separately measured.</p>			
	<p>Carried to Collection</p>			R
	<p>Section No. 3 Bill No. 5 Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants</p>			

Carting away of excavated material.:

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.

Excavations, Filling , etc.

The Contractor shall notify the Principal Agent as soon as the excavations are ready to receive foundations and no building work may be started until the Principal Agent has approved the excavations.

Over excavations taken beyond the levels and sizes shown or required to obtain a solid foundation shall be filled by the contractor, at his own expense, with 15MPa concrete.

Should the Contractor consider that any of the excavations are more difficult in nature than excavations in "earth" he shall immediately notify the Quantity Surveyor in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly.

The Contractor may use any method he chooses to excavate any class of material, but his chosen method of excavations shall not determine the classification of the material excavated.

Blasting:

No blasting will be allowed without the written permission of the Principal Agent.

Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works. The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense.

Carried to Collection

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 Bill No. 5
 Boundary wall, Retaining wall, Etc (Provisional)
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Testing:

Prices for filling are to include for all necessary density tests in accordance with SANS 1200D.

Prescribed density tests:

NOTE: The Contractor is specifically referred to the SANS 1200 clause regarding the number of density tests required on the layer work, filling, etc. The tests as prescribed are deemed to be included in the appropriate rates for the layer work, filling, etc. and will not be paid for separately. The following density tests measured are over and above those normally required by SANS 1200 and is for the use of the Engineer only and will only be paid for if instructed in writing and approved as acceptable by the Engineer.

BOUNDARY, SCREEN WALLS, WATER TANK BASES, ETC

EARTHWORKS

1	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	41
2	Excavate in earth for working space (at Contractor's discretion) exceeding 500mm and not exceeding 1500mm deep to side of ? for the erection and removal of formwork and return, fill and consolidate spoil on completion. (Distance from face of ? to side of excavation is ?mm).	m2	59
3	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	118

Risk of collapse of excavations other than bulk:

Carried to Collection

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 Bill No. 5
 Boundary wall, Retaining wall, Etc (Provisional)
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	<u>CARTING AWAY.</u>				
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
4	Off site to a local approved dumping site to be supplied by the Contractor.	m3	27		
	<u>EARTH FILLING, ETC.</u>				
	<u>Filling with G7 approved material supplied and carted onto site by the Contractor, compacted to a density of at least 97% Mod. AASHTO maximum density:</u>				
5	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated as backfilling to trenches, bases, etc.	m3	14		
	<u>SOIL POISONING</u>				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
6	Sides and bottoms of trenches, holes, etc. (Provisional).	m2	200		
	<u>COMPACTION OF SURFACES</u>				
	<u>Compaction of surfaces:</u>				
7	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density.	m2	82		
	<u>CONCRETE</u>				
8	Set of three concrete test cubes size 150 x 150 x 150mm overall including testing (Provisional).	Sets	3		
	Carried to Collection				R
	Section No. 3				
	Bill No. 5				
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	<u>Concrete Cast Against Excavated Surfaces</u>				
9	Reinforced cement concrete (25MPa) in footing to retaining wall.	m3	20		
	<u>FORMWORK</u>				
	<u>Class F1 Rough Formwork To</u>				
10	Edge, risers, ends and reveals not exceeding 300mm high or wide.	m	57		
	<u>REINFORCEMENT</u>				
	<u>Mild Steel Bar Reinforcement To Structural Concrete Work</u>				
11	Various diameter bars.	kg	760		
	<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>				
12	Various diameter bars.	kg	760		
	<u>BRICKWORK</u>				
	<u>Brickwork In Clay Bricks In 6:1 Cement Mortar In</u>				
13	One brick wall.	m2	152		
	<u>Brickwork Sundries</u>				
	<u>Movement Joints</u>				
14	10mm Bitumen impregnated softboard joint filler set between vertical brick surfaces not exceeding 300mm wide.	m	118		
	<u>Reinforcement</u>				
15	Galvanised brick reinforcement 155mm wide.	m	1 793		
	Carried to Collection				R
	Section No. 3 Bill No. 5 Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants				

<u>FACE BRICKWORK</u>			
<u>Facebricks Prime Cost Of R 6 500.00 Per Thousand Excluding VAT Delivered To The Site Pointed With Square Recessed Horizontal And Vertical Joints:</u>			
16	Extra over brickwork for face brickwork.	m2	152
<u>Brick-on-edge header course copings, sills, etc of face bricks, pointed with flush joints on all exposed faces:</u>			
17	Extra over brickwork for brick-on-edge header course band	m	118
Carried to Collection			R
Section No. 3 Bill No. 5 Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants			

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 Refurbishment to Existing Dyifani JSS**

Section No. 3
 Bill No. 5
 Boundary wall, Retaining wall, Etc (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

72
 73
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Section No. 3
 Bill No. 5
 Boundary wall, Retaining wall, Etc (Provisional)
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R

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SECTION SUMMARY - External Works		Page No	Amount
1	Soil Drainage (Provisional)	55	
2	Bulk Water Supply (Provisional)	59	
3	Stormwater Drainage (Provisional)	64	
4	Fencing and Railing	71	
5	Boundary wall, Retaining wall, Etc (Provisional)	78	
Carried to Final Summary			R
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Item No		Quantity	Rate	Amount
	<p><u>BILL No.1</u></p> <p><u>PROVISIONAL SUMS ETC</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Work executed by direct contractors</u></p> <p>Work listed under the heading "SELECTED SUB-CONTRACTORS WORK" will commence during the execution of this contract and the contractor shall allow free access to the site for these selected contractors. The contractor shall prepare a programme in conjunction with these selected sub-contractors in order to complete the work successfully. Payment will not be made to them via the contractor. The estimated values of these contracts are listed to enable the contractor to determine profit and attendances, if required.</p> <p><u>General:</u></p> <p>All prime cost amounts and provisional sums are for further amplification for delivery to site of all articles concerned.</p> <p><u>Preliminaries</u></p> <p>The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums"</p>			
	<p>Carried to Collection</p>			R
	<p>Section No. 4 Bill No. 1 Provisional Sums Quantum Built & Environment Consultants</p>			

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BUDGETARY ALLOWANCES

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

COMMUNITY LIAISON OFFICER

1	Provide the sum of R30 000.00 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 (4 months)	Item	30 000.00
2	Profit on above item.	Item	2 250.00
3	Attendance on Ditto.	Item	750.00

LANDSCAPING

4	Provide the sum of R50 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required.	Item	50 000.00
5	Profit on above item.	Item	3 750.00
6	Attendance on Ditto.	Item	1 250.00

Carried to Collection

R

Section No. 4

Bill No. 1

Provisional Sums

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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	40	
2	Building Works	51	
3	External Works	79	
4	Provisional Sums	82	
	Sub Total		R
	ADD: Contingencies @ 5%		R
	Sub Total		R
	VAT @ 15%		R
	Carried to Form of Tender		R
	Quantum Built & Environment Consultants		