

**Item  
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7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.			
8. Where any item is not relevant to this specific contract, such item is marked N/			
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.			
<b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b>			
<b><u>DEFINITIONS</u></b>			
1 Definitions and interpretation (clause 1)	Item		
<b><u>OBJECTIVE AND PREPARATION</u></b>			
2 Offer acceptance and performance (clause 2)			
F..... V ..... T .....	Item		
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'.			
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4	Design responsibility (clause 4) F..... V ..... T .....	Item		
5	Employer's agents (clause 5) F..... V ..... T .....	Item		
6	Site representative (clause 6) F..... V ..... T .....	Item		
7	Compliance with regulations (clause 7)  Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The principal agent shall, on behalf of the employer, issue such health and safety specification and the contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification, provided such provisions are reasonable in terms of the act and the regulations.  F..... V ..... T .....	Item		
8	Works risk (clause 8) F..... V ..... T .....	Item		
9	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'.  F..... V ..... T .....	Item		
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10	Works insurances (clause 10) F..... V ..... T .....	Item		
11	Liability insurances (clause 11) F..... V ..... T .....	Item		
12	Effecting insurance (clause 12) F..... V ..... T .....	Item		
13	State Provisions (Clause 13). F..... V ..... T .....	Item		
14	Security (clause 14) F..... V ..... T .....	Item		
	<b><u>EXECUTION</u></b>			
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		
18	Setting out of the works (Clause 18). 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. F..... V ..... T .....	Item		
19	Assignment (Clause 19). F..... V ..... T .....	Item		
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20	Nominated subcontractors (Clause 20). F..... V ..... T .....	Item		
21	Selected subcontractors (Clause 21). F..... V ..... T .....	Item		
22	Employer's Direct contractors (Clause 22). F..... V ..... T .....	Item		
23	Contractor's Domestic subcontractors (Clause 23). F..... V ..... T .....	Item		
<b><u>COMPLETION</u></b>				
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		
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27	<p>Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses:</p> <p>27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations.</p> <p>27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects.</p> <p>F..... V ..... T .....</p>			
		Item		
28	<p>Sectional completion (Clause 28).</p> <p>F..... V ..... T .....</p>			
		Item		
29	<p>Revision of date for practical completion (Clause 29).</p> <p>F..... V ..... T .....</p>			
		Item		
30	<p>Penalty for non-completion (Clause 30).</p> <p>F..... V ..... T .....</p>			
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34	Final account and final payment (Clause 34).  Clause 34.1 is amended as follows: The principal agent shall prepare a final account for submission to the contractor within one hundred and eighty (180) calendar days."  F..... V ..... T .....	Item		
35	Payment to other parties (Clause 35).  F..... V ..... T .....	Item		
	<b><u>CANCELLATION</u></b>			
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		
	<b><u>DISPUTE</u></b>			
40	Dispute Settlement (Clause 40)	Item		
	<b><u>SUBSTITUTE PROVISIONS</u></b>			
41	State clauses (Clause 41).  F..... V ..... T .....	Item		
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	<b><u>CONTRACT VARIABLES</u></b>			
42	The Schedule: Pre-Tender information (Clause 42).  F..... V ..... T .....	Item		
	<b><u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u></b>			
	<b>Employer:</b> Development Bank of Southern Africa Postal Address: Telephone: : Facsimile: n/a Physical address:			
	<b><u>CONTRACT DETAILS (Clause 42.2)</u></b>			
	<u>Clause 42.2.1</u>  Works Description: ..... - see brief description under the Notes to Tenderers			
	<u>Clause 42.2.2</u> Site Description: ..... site, co-ordinates:			
	<u>Clause 42.2.3</u> Work or Installations by Others: Nil			
	<u>Clause 42.2.4</u> 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			
	<u>Clause 42.2.5</u> Date on which possession of the site is intended to be given on :-  5 working days from the date of the letter of appointment to the Contractor.			
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	<p><u>Clause 42.2.6</u></p> <p>Period for the commencement of the works after the contractor takes possession of the site :- 2 Working days.</p> <p>Completion in Sections are required : NO</p> <p><u>Clause 42.2.7</u></p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole :-</p> <p>..... working days after commencement</p> <p>Penalty amount R..... per calendar day</p> <p><u>Clause 42.2.8</u></p> <p>Intended dates of practical completion and the penalties per calendar day for the works in sections : N/A</p> <p><u>Clause 42.2.9</u></p> <p>The law applicable to this agreement shall be that of - South Africa.</p> <p><b><u>INSURANCES</u></b></p> <p><u>Clause 42.3.1</u></p> <p>Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10% With a deductible of : to be determined by the Contractor but not greater than the maximum of R50,000.00 as stipulated by the Employer</p> <p><u>Clause 42.3.2</u></p> <p>Supplementary insurance is required : <b>YES</b> SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 10% (with a deductible to be determined by the Insurance company issuing the policy).</p> <p><u>Clause 42.3.3</u></p> <p>Public liability insurance to be effected by the Contractor For the amount of: R10 million With a deductible of: R2,500.00</p>			
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<b><u>DOCUMENTS (Clause 41.4)</u></b>			
<u>Clause 42.4.1</u> Waiver of the contractor's lien is required :- <b>YES</b>			
<u>Clause 42.4.2</u> Number of construction document copies to be supplied to the Contractor free of charge :- 3"			
<u>Clause 42.4.3</u> Specification drawn up in accordance with :- Standard System of Measuring Building Work - Seventh Edition including all amendments.			
<u>Clause 42.4.4</u> Number of days for submission of priced documents : 15 days from the Letter of Appointment.			
<u>Clause 42.4.5</u> JBCC Engineering General Conditions are to be included in the documents :- No			
<u>Clause 42.4.6</u> The contract value is to be adjusted using CPAP:- <b>YES</b> Refer to Clause 32 of these Preliminaries for details.			
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	way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., or loss of profit related thereto.			
	F..... V ..... T .....	Item		
46	Availability of construction documentation (B2.3)			
	F..... V ..... T .....	Item		
47	Interests of Agents (B2.4)			
	F..... V ..... T .....	Item		
48	Priced documents (B2.5)			
	F..... V ..... T .....	Item		
49	Tender submission (B2.6)			
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 56 (fifty-six) calendar days from the closing date of tenders.			
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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)			
	F..... V ..... T .....	Item		
57	Services - unknown (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)			
	The Tenderer shall inspect access roads, etc and shall be responsible for any damage evident at the end of the contract which has not been pointed out.			
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	<b>SAMPLES AND SHOP DRAWINGS (B5)</b>			
65	Samples of materials (B5.1) F..... V ..... T .....	Item		
66	Workmanship samples (B5.2) F..... V ..... T .....	Item		
67	Shop drawings (B5.3) F..... V ..... T .....	Item		
	<b>TEMPORARY WORKS AND PLANT (B6)</b>			
68	Deposits and fees (B6.1) F..... V ..... T .....	Item		
69	Enclosure of the works (B6.2)  The Contractor shall erect, maintain and remove at completion ~ hoarding, safety screens, barriers, access gates, covered gangways and the like as necessary for the protection of the public and others. F..... V ..... T .....	Item		
70	Advertising (B6.3) F..... V ..... T .....	Item		
71	Plant, equipment, sheds and offices (B6.4) F..... V ..... T .....	Item		
72	Main notice board (B6.5) One notice board shall be provided - refer to Annexure 7 F..... V ..... T .....	Item		
73	Subcontractors notice board (B6.6) N/A F..... V ..... T .....	Item		
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	<b><u>TEMPORARY SERVICES (B7)</u></b>			
74	Location (B7.1)  F..... V ..... T .....	Item		
75	Water (B7.2)  The employer shall provide water for the works in accordance with: Alternative A (i.e. To be provided for by the Contractor)  F..... V ..... T .....	Item		
76	Electricity (B7.3)  The contractor shall provide electricity on site for the works in accordance with:  Alternative A (i.e. To be provided for by the Contractor)  F..... V ..... T .....	Item		
77	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)  F..... V ..... T .....	Item		
78	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)  F..... V ..... T .....	Item		
	<b><u>PRIME COST AMOUNTS (B8)</u></b>			
79	Responsibility for prime cost amounts (B8.1)  F..... V ..... T .....	Item		
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	<b><u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u></b>			
80	General Attendance (B9.1)  Clause 9.1 shall be amended by the addition of the following:  a) Provide every assistance necessary for the due performance by all sub-contractors of their work and to enable them to execute their work in a like manner, in a proper order and sequence.  b) Supervise and administer the sub-contractors and arrange and monitor programmes with each sub-contractor and supplier and co-ordinate the work of all sub-contractors and deliveries by suppliers.  c) Attendance on Nominated/Selected sub-contractors includes co-operating to the fullest extent with all parties and providing facilities for general attendance.  F..... V ..... T .....	Item		
81	Special Attendance (B9.2)  F..... V ..... T .....	Item		
82	Commissioning - fuel, water and power (B9.3)  F..... V ..... T .....	Item		
	<b><u>FINANCIAL ASPECTS (B10)</u></b>			
83	Statutory taxes, duties and levies (B10.1)  Provision is made in the Final Summary of these <b>Bills of Quantities</b> for the inclusion of Value Added Tax (VAT).  F..... V ..... T .....	Item		
84	Payment of Preliminaries (B10.2)  F..... V ..... T .....	Item		
85	Adjustment of Preliminaries (B10.3)  F..... V ..... T .....	Item		
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	<b><u>SCHEDULE OF VARIABLES (B12)</u></b>			
96	<p>Pre-tender information (B12.1)</p> <p>Information necessary for making choices and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is irrelevant for this specific contract.</p> <p>F..... V ..... T .....</p> <p>Provisional Bills of Quantities (B2.2) N/A The quantities are provisional (NO). Availability of Construction documentation (B2.3) Interests of Agents (B2.4) Defined works area (B3.1) Tenderers shall establish by personal viewing of the site conditions any restrictions imposed by existing buildings, limited means of access and the like. Geotechnical investigation (B3.2) Refer to Annexure 12 Existing premises occupied (B3.4): (N/A) Services - known (B3.7) Protection of trees (B3.9) Inspection of adjoining properties (B3.11) Enclosure of the works (B6.2) Offices (B6.4.3) Main notice board (B6.5) One main notice board shall be provided - refer to Annexure 6 Subcontractors notice board (B6.6) A notice board is required (No) Water (B7.2) Alternative chosen: A Electricity (B7.3) Alternative chosen: A Telecommunications (B7.4) Alternative chosen: A Ablution facilities (B7.5) Alternative chosen: A Special Attendance (B9.2) Protection of the Works (B11.1) Protection of existing/sectionally occupied works (B11.2) Disturbance (B11.5)</p>	Item		
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<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>				
<b><u>Section C: Specific Preliminaries:</u></b>				
97	<b>C1. Proprietary branded products</b> 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.  F..... V ..... T .....	Item		
98	<b>C2. Trade Names, etc.</b> All materials, fittings, finishing, 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, finishing, 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.  F..... V ..... T .....	Item		
99	<b>C3. Contractors responsibility</b> 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.  F..... V ..... T .....	Item		
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100	<b>C4. Overtime</b> 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.  F..... V ..... T .....	Item		
101	<b>C5. As built drawings</b> 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.  F..... V ..... T .....	Item		
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102	<p><b>C6. Construction Instructions</b> 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>The Contractor shall supply and have available at the site of the works at all times, the following site books:</p> <p><u>a) Construction Instruction Book:</u> 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 in the book.</p> <p><u>b) Daily Record Book</u> The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p> <p>F..... V ..... T .....</p>			
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103	<p><b>C7. Labour record</b> 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>			
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104	<p><b>C8. Plant record</b> 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>			
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105	<p><b>C9. Encroachment</b> 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		
106	<p><b>C10. Method Statement</b> 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		
107	<p><b>C11. Unauthorised Persons/Workmen on Premises</b> 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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108	<p><b>C12. Mode of Procedure</b></p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> <p>F..... V ..... T .....</p>			
109	<p><b>C13. Shop Drawings</b></p> <p>The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work.</p> <p>The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent's instruction, are prepared and submitted timeously in accordance with the following procedure:</p> <p>(a) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given.</p> <p>(b) Shop drawings shall be submitted to the Principal Agents for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.</p> <p>(c) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together</p>	Item		
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110	<p><b>C14. Commodities to be New</b></p> <p>All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, stored, used, and/or fixed with care to ensure that they are in perfect condition when incorporated into the Works and thereafter properly protected so as to ensure that they are likewise in perfect condition when handed over at completion of the Work.</p> <p>F..... V ..... T .....</p>			
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111	<p><b>C15. Standard of Workmanship and Materials</b></p> <p>In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply.</p> <p>F..... V ..... T .....</p>			
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112	<p><b>C16. Making Good</b></p> <p>All materials and workmanship in building up, making good, etc., are to match existing and where new materials abut existing, they are to be neatly jointed to same.</p> <p>Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent.</p> <p>Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Architect's satisfaction.</p> <p>F..... V ..... T .....</p>			
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Bill No. 1				
Preliminaries				

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Item No		Quantity	Rate	Amount
118	<b>C22. Media Releases</b> All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project shall vest in the Employer.  F..... V ..... T .....	Item		
119	The Contractor, together with his Sub-Contractor shall not, without the written consent of the Principal Agent, cause any statement or advertisement to be printed, screened or aired by the media.  F..... V ..... T .....	Item		
120	<b>C23. Guarantees and Maintenance Manuals</b> The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Principal Agent or provided by manufacturer's, suppliers or Sub-Contractors.  The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed.  F..... V ..... T .....	Item		
Carried to Collection				R
Section 1 Preliminaries Bill No. 1 Preliminaries				

Item No		Quantity	Rate	Amount
121	<p><b>C24. Occupational Health and Safety Act</b></p> <p>The Contractor shall for the duration of this contract be deemed to be the mandatory of the Council for the purposes of the Occupational Health and Safety Act, Act 85 of 1993, and he shall prior to taking occupation of the site satisfy the Council by means of written representations that he has fully complied with the relevant requirements of the said Act.</p> <p>Acceptance by the Council of the Contractors written representations in terms of the above shall constitute an agreement in writing to the arrangements and procedures between the parties to ensure compliance by the Contractor with the provisions of the Act referred to therein, for the purposes of Section 37(2) of the said Act.</p> <p>The Council shall at all times have the right to summarily suspend the performance of the Contractor hereunder pending compliance by the Contractor with any requirement, regulation and/or direction referred to.</p> <p>The Council shall be entitled to set-off against any amount owed by the Council to the Contractor hereunder any loss or damage suffered by it as a result of the suspension of the Contractor's performance in the circumstances envisaged above.</p> <p>The Tenderer shall price for all necessary items to comply with the Occupational Safety and Health Specification contained in <b>Annexure 10</b> of these Bills of Quantities.</p> <p>F..... V ..... T .....</p>			
122	<p><b>C25. Notes to Tenderers</b></p> <p>Items which the Tenderer wishes to price in order to provide for the due observance of the requirements of the 'Notes to Tenderers' outlines at the beginning of this Specification may be priced under this item:</p> <ol style="list-style-type: none"> <li>1. Tenders, Tender Forms and Closing Date</li> <li>2. Fax Tenders</li> <li>3. Withdrawal of Tenders</li> <li>4. Acceptance of Tender</li> <li>5. Scope of Contract</li> <li>6. System of Measurement</li> <li>7. Documentation to be submitted with Tender</li> <li>8. Contract Price Adjustment Provisions</li> <li>9. Conditions pertaining to Targeted Procurement</li> </ol>			
	<b>Carried to Collection</b>			
	Section 1			
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Item No	Quantity	Rate	Amount
10. Contract Participation Goal			
11. Labour Goals			
12. FTE Employment Information			
13. Community Liaison Officer, etc.			
14. Application for Service Connections			
15. Viewing the Site			
16. Communications with members of Tender/Bid Committee			
17. Tender Fee			
18. Market Related Wage Rates			
19. Tender Prices and Contingency Sum			
20. Value Added Tax			
21. Tax Clearance Certificate			
22. Occupational Health and Safety Act			
23. CIDB Register of Contractors			
24. Registration on central supplier data base			
25. Contractor's Domestic Sub-contractors for Plumbing/Electrical Installations			
26. Contractor's Domestic Sub-contractors for Water/Electrical Connections			
27. Use of Proprietary Products			
28. Termination of Contracts			
29. Appeal Process			
30. Prohibitions on Awards to Persons in the Service of the State			
31. Minimum Experience Requirement			
32. Performance monitoring and assessment of service providers			
33. Empowerment strategies			
34. Schedule of Drawings			
35. Contract Period			
36. Electronic tender document			
37. Additional conditions of contract			
38. Pricing of 'Notes to Tenderers'			
F..... V ..... T .....	Item		
<b>Carried to Collection</b>			R
Section 1 Preliminaries Bill No. 1 Preliminaries			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL No. 2</u></b>			
	<b><u>ALTERATIONS</u></b>			
	<b><u>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Existing Furniture, Equipment, etc</u></b>			
	The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done			
	<b><u>Damage to existing finishes</u></b>			
	The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.			
	Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account			
	<b>Carried to Collection</b>		R	
	Section 2			
	Alterations (Provisional)			
	Bill No. 1			
	Alterations			

Item No		Quantity	Rate	Amount
	<p><b><u>Responsibility for site</u></b></p> <p>The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above</p> <p><b><u>Explosives</u></b></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><b><u>General</u></b></p> <p>The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent</p>			
	<b>Carried to Collection</b>		R	
	<p>Section 2</p> <p>Alterations (Provisional)</p> <p>Bill No. 1</p> <p>Alterations</p>			



Item No		Quantity	Rate	Amount
	<p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p><b>"Taking out and removing doors, windows, etc"</b> implies that the door, etc is to be carefully taken down together with the fame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing</p> <p><b>"Forming openings"</b> for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing</p> <p><b>"Making good"</b> implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades</p> <p>The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p>			
	<b>Carried to Collection</b>		R	
	Section 2			
	Alterations (Provisional)			
	Bill No. 1			
	Alterations			

Item No		Quantity	Rate	Amount
	<p>The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing</p> <p><b>"Breaking down and removing"</b> walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for plaster or other finishings as described</p> <p>Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained</p> <p><b>"Building up openings"</b> implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described.</p> <p><b><u>Removal of asbestos material</u></b></p> <p>All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.</p>			
	<b>Carried to Collection</b>		R	
	<p>Section 2 Alterations (Provisional) Bill No. 1 Alterations</p>			

Item No		Quantity	Rate	Amount
	<p><b><u>The following shall apply in respect of asbestos removal</u></b></p> <p>The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001</p> <p>Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose</p> <p>Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material</p> <p>Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally</p> <p>The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained</p>			
	<b>Carried to Collection</b>		R	
	<p>Section 2</p> <p>Alterations (Provisional)</p> <p>Bill No. 1</p> <p>Alterations</p>			

Item No		Quantity	Rate	Amount
	<b><u>TEMPORARY BARRIERS, SCREENS, ETC</u></b>			
	<b><u>Temporary barriers, screens, etc including removal and allow for re-use</u></b>			
1	SANS approved weld mesh type temporary barrier <b>fencing</b> 1,8m high with <b>shade cloth</b> fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing	m	200	
2	<b>Double gate</b> size 3 x 1.8m high	No	1	
	<b><u>REMOVAL OF EXISTING WORK</u></b>			
	<b><u>Breaking up and removing reinforced concrete</u></b>			
3	2450 x 2450 x 1000mm Deep water tank stand and including removal of the plastic tanks.	No		
	<b><u>Break down and remove brickwork etc</u></b>			
4	One brick wall in beam filling	m2	15	
5	Half brick wall in beam filling	m2	5	
	<b><u>Taking out and removing doors, windows, etc, including thrsholds, sills, etc and building up openings in brick walls, including making good cement plaster on side(s) (making good paintwork elsewhre)</u></b>			
6	Timber single door 813 x 2032mm high (frame to remain)	No	2	
7	Timber single door and timber frame 813 x 2032m high overall from one brick wall.	No	23	
8	Timber single door and timber frame 813 x 2032m high overall from half brick wall.	No	2	
9	Timber single door and steel frame 813 x 2032m high overall from one brick wall.	No	4	
10	Timber single door and steel frame 813 x 2032m high overall from half brick wall.	No	24	
	<b>Carried to Collection</b>			
	Section 2			
	Alterations (Provisional)			
	Bill No. 1			
	Alterations			

Item No		Quantity	Rate	Amount
11	Timber double door and steel frame 1500 x 2032mm high overall from one brick wall.	No 1		
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely</u></b>			
12	Asbestos roof sheeting including timber purlins, underlay, etc. and the provision of a certificate of safe disposal for asbestos	m2 56		
13	Corrugated metal roof sheeting including timber roof purlins, underlay etc.	m2 2,091		
14	Timber roof trusses.(building area measured flat including verandas and overhangs	m2 2,337		
15	Asbestos board ceilings including cornices, timber brandering, etc and the provision of a certificate of safe disposal for asbestos	m2 446		
16	Gypsum plasterboard ceilings including cornices, timber brandering, etc	m2 1,173		
17	Fibre cement board ceilings including cornices, timber brandering, etc	m2 719		
18	Asbestos fascia boards and fixings, etc and the provision of a certificate of safe disposal for asbestos	m 90		
19	Fibre cement fascia boards and fixings	m 399		
20	Asbestos barge boards and fixings, etc and the provision of a certificate of safe disposal for asbestos	m 22		
21	Fibre cement barge boards and fixings	m 96		
22	Asbestos rainwater gutters and fixings, etc and the provision of a certificate of safe disposal for asbestos	m 90		
23	Pvc rainwater gutters and fixings	m 399		
24	Asbestos rainwater downpipes and fixings, etc and the provision of a certificate of safe disposal for asbestos	m 30		
25	Pvc rainwater downpipes and fixings	m 126		
	<b>Carried to Collection</b>		R	
	Section 2 Alterations (Provisional) Bill No. 1 Alterations			

Item No		Quantity	Rate	Amount
	<b><u>Taking out and removing ironmongery</u></b>			
26	Damaged chalkboard 2400 x 1140mm	No	22	
	<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u></b>			
27	Plaster from walls in patches	m2	500	
28	Screeds not exceeding 50mm thick	m2	200	
	<b><u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete and prepare surfaces for new screed, plaster, tile finish, etc</u></b>			
29	Hack off existing ceramic tiles and cart away off site to a dumping site located by the contractor and prepare surface to receive new floor finish. (elsewhere measured)	m2	170	
30	Tile skirting 100mm high	m	206	
	<b><u>Taking out and removing floor coverings, carpeting, tiles, etc</u></b>			
31	Vinyl tile floor covering including preparing screed for new vinyl floor tiles (elsewhere measured)	m2	1,986	
32	Timber skirting 80mm high	m	902	
	<b><u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>			
33	Carefully remove existing sanitary fittings, whb and cart away off site	No	7.00	
34	Carefully remove existing sanitary fittings, WC and cart away off site	No	26.00	
35	Carefully remove existing sanitary fittings, porcelain wall mounted urinal and cart away off site	No	4.00	
	<b>Carried to Collection</b>		R	
	Section 2			
	Alterations (Provisional)			
	Bill No. 1			
	Alterations			

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Item No		Quantity	Rate	Amount
	<b><u>STRUCTURAL REPAIRS</u></b>			
	<b><u>Repairs to structural cracks, etc</u></b>			
42	Rake out existing minor structural crack in blockwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere).	m	400	
	<b><u>UNDERPINNING TO FOUNDATION</u></b>			
	<b><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></b>			
	<b><u>REMOVAL OF EXISTING WORK, ETC</u></b>			
	<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
43	100 - 200mm Thick surface beds, aprons, etc.	m2	10	
	<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
44	Holes.	m3	16	
	<b><u>Extra over trench and hole excavations in earth for excavation:</u></b>			
45	Soft rock.	m3	1	
46	Hard rock.	m3	2	
	<b><u>Extra over all excavations for carting away:</u></b>			
47	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	10	
	<b><u>Risk of collapse of excavations:</u></b>			
48	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	32	
	<b>Carried to Collection</b>			
	Section 2			
	Alterations (Provisional)			
	Bill No. 1			
	Alterations			

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Item No		Quantity	Rate	Amount
	<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u></b>			
55	To bottoms and sides of trenches, holes, etc.	m2	42	
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></b>			
56	Under surface beds, bases, etc.	m2	32	
	<b><u>SERVICE</u></b>			
	<b><u>Steel Windows</u></b>			
57	Service window including lubricating ironmongery and leave in good workable condition	No	160	
	<b><u>Temporary Accommodation</u></b>			
	<b><u>Provide temporary accommodation units (park homes) for Educational Facilities during construction in phases as herewith measured including leveling of area, positioning on site and connected electrical supply including issue of electrical compliance certificate. Park homes to be standard size class room size and needs to be minimum 7 x 7m or nearest standard size</u></b>			
58	Rental of temporary accommodation approximate size 7 x 7m wide, including standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings, electrical certificate of compliance, for a period of <b><u>ten (10) calendar months</u></b>	No	6	
59	Two tier steps for <b><u>ten (10) Calendar months</u></b>	No	6	
60	Electrical Compliance Certificate	No	6	
61	Transportation and establishment on site and de-establishment on completion temporary accommodation units approximate size 7 x 7m wide	No	6	
	<b>Carried to Collection</b>			R
	Section 2			
	Alterations (Provisional)			
	Bill No. 1			
	Alterations			

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Item No	Quantity	Rate	Amount
<b><u>SECTION 3</u></b>			
<b><u>BILL No. 1</u></b>			
<b><u>MASONRY</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Sizes in descriptions:</u>			
Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.			
<u>Face bricks:</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour.			
<u>Pointing:</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, and cleaning etc.			
<u>Samples, etc:</u>			
Rates for brickwork, faced brickwork, etc shall include for all required samples.			
<b>Carried to Collection</b>			
Section 3			
New Works to Existing Structures (Provisional)			
Bill No. 1			
Masonry			

Item No		Quantity	Rate	Amount
	<p><u>Concrete masonry units:</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa</p> <p><u>Wall ties for blockwork:</u></p> <p>Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other</p> <p><u>Blockwork:</u></p> <p>Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"</p> <p>Surfaces shall have joints raked out to a depth of at least 10mm and pointed on exposed surfaces. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.</p> <p><u>Standard complementary blocks:</u></p> <p>Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary</p>			
	<b>Carried to Collection</b>		R	
	<p>Section 3</p> <p>New Works to Existing Structures (Provisional)</p> <p>Bill No. 1</p> <p>Masonry</p>			

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Section 3  
New Works to Existing Structures (Provisional)  
Bill No. 1  
Masonry

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Item No		Quantity	Rate	Amount
	<b><u>BILL No. 2</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<b><u>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary products in descriptions:</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u></b>			
1	Below walls, sills, etc.	m2	150	
	<b><u>JOINT SEALANTS ETC</u></b>			
	<b><u>Clear Neutral silicone sealant:</u></b>			
2	In joint sealing and pointing all round external window and door frames.	m	228	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 2			
	Waterproofing			
			R	

Item No	Quantity	Rate	Amount
<b><u>BILL No. 3</u></b>			
<b><u>ROOF COVERINGS</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Flashings</u></b>			
Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side			
<b><u>Quality Assurance</u></b>			
The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System			
<b>Carried to Collection</b>			R
Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings			

Item No		Quantity	Rate	Amount
	<p><b><u>Guarantee</u></b></p> <p>Z275 Steel or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials and a five year written guarantee on workmanship and water-tightness after final inspection of the roofs, by the manufacturer.</p> <p><b><u>Safety</u></b></p> <p>The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity</p> <p><b><u>Handling and Storage</u></b></p> <p>The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction</p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section 3 New Works to Existing Structures (Provisional) Bill No. 3 Roof Coverings</p>		R	

Item No		Quantity	Rate	Amount
	<p><b><u>Inspection Prior to Installation or Erection</u></b></p> <p>Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:</p> <ul style="list-style-type: none"> <li>a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted</li> <li>b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances</li> <li>c. The corners of the roof are square and the wall framework is perpendicular or as specified</li> <li>d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework</li> <li>e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square</li> <li>f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided</li> <li>g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding</li> </ul> <p><b><u>Protrusion through Sheeted Surfaces</u></b></p> <p>Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation</p>			
	<b>Carried to Collection</b>		R	
	<p>Section 3</p> <p>New Works to Existing Structures (Provisional)</p> <p>Bill No. 3</p> <p>Roof Coverings</p>			

### Carried to Collection

Section 3  
New Works to Existing Structures (Provisional)  
Bill No. 3  
Roof Coverings

Item No		Quantity	Rate	Amount
	<b><u>0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u></b>			
2	Ridge capping 550mm girth, screwed through sheet to purlins	m	245	
3	Standard narrow and broad flute closers.	m	245	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>Reflective foil insulation or equal approved 420 Heavy reinforced aluminium foil insulation double sided, heat reflective foil laminate incorporating eight layers of aluminium reinforcing scrim, Kraft paper and polyethylene, tested with SABS 1381: Part IV-1985, with a Class 1 fire rating SABS 0177: part III - 1981 and BS 476 part 5, 6 and 7, truss/rafter with 38mm x 3,2mm x 1100mm hardboard positioned flush with the bottom edge of the material overlap exposed at the top for the next layer and 150mm on each 1250mm width roll. All to be fixed in accordance with specification</u></b>			
4	Insulation laid taut over purlins (at approximately 450mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	2,571	
	<b>Carried to Collection</b>			
	Section 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 3			
	Roof Coverings			

R



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Item No	Quantity	Rate	Amount
<b><u>BILL No. 4</u></b>			
<b><u>CARPENTRY &amp; JOINERY</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>ROOFS ETC</u></b>			
<b><u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u></b>			
All trusses to be fabricated in a factory by a truss fabricator who holds a current Certificate of Competence awarded by the Institute for Timber Construction			
TR1 & TR2 Certificates are to be issued for each Block before occupation may take place			
<b><u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u></b>			
NOTE: All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES			
Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and TR1 and TR2 Certificates			
<b><u>TIMBER</u></b>			
Timber for trusses to be South African softwood structural timber and shall be at least of grade 4 and in accordance with SABS Specification No.'s 563 or 1245 or laminated timber in accordance with SABS 1460			
<b>Carried to Collection</b>			R
Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery			

**Carried to Collection**

Section 3  
New Works to Existing Structures (Provisional)  
Bill No. 4  
Carpentry and Joinery

Item No		Quantity	Rate	Amount
	<p><u>TRUSS CONSTRUCTION</u></p> <p>The trusses shall be constructed to ensure the correct profile, overhangs and cambers</p> <p>All joints are to be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint</p> <p><u>TRUSS DESIGN</u></p> <p>All trusses shall be designed by a registered Professional Engineer employed by the Contractor in accordance with the SANS Code of Practice for the Design of Timber Structures SANS 0163 and the Code of Practice for General Procedures and Loadings SANS 0160</p> <p><u>TRUSS SPACING</u></p> <p>The truss centres shall be less than or equal to that described in the Bills for each respective truss type</p> <p><u>DRAWINGS</u></p> <p><i>Prints shall be provided to the consulting engineer/ architect for approval. These drawings shall be signed by a Professional Engineer</i></p> <p>The following minimum information shall be supplied:</p> <ul style="list-style-type: none"> <li>* Details of the roof system with the positions of all trusses and beams clearly indicated</li> <li>* Bracing details</li> <li>* All truss details, including valley trusses where applicable, with the following clearly detailed:- <ul style="list-style-type: none"> <li>- All member sizes and grades</li> <li>- Connector plate sizes for all truss joints. Code numbers are deemed sufficient</li> </ul> </li> <li>* All connection and hold down details between trusses, girders, beams and supports</li> <li>* The type of roof covering, ceiling and any other loads taken into account in the design</li> </ul>			
	<b>Carried to Collection</b>		R	
	<p>Section 3</p> <p>New Works to Existing Structures (Provisional)</p> <p>Bill No. 4</p> <p>Carpentry and Joinery</p>			

Item No		Quantity	Rate	Amount
	<p>The dimensions in the descriptions of trusses are nominal and verification measurements are to be obtained from site before design or fabrication commences, and must be designed in accordance with the environmental conditions of the area</p> <p><u>GENERAL</u></p> <p>The following schedule of prices includes all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to the site and offloading</p> <p>The trusses must be suitable stored and protected on site as directed by the Secretary or his Representative</p> <p><u>ERECTION</u></p> <p>The trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the Manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research of as detailed by the designer of the SANS Code of Practice: "The Design, Manufacture and Erection of Timber Roof Trusses"</p> <p><u>TRUSS LOADING</u></p> <p>The trusses shall be designed for:</p> <ul style="list-style-type: none"> <li>* Roof Cover: 0,8mm Metal roof sheeting</li> <li>* Max Purlin centres: 900mm</li> <li>* Ceilings: Fibre-cement ceilings</li> <li>* Overhang: Min 600mm</li> </ul>			
	<b>Carried to Collection</b>			
	<p>Section 3</p> <p>New Works to Existing Structures (Provisional)</p> <p>Bill No. 4</p> <p>Carpentry and Joinery</p>			
			R	

Item No		Quantity	Rate	Amount
	<u>TRUSSES</u>			
	a. All the roof trusses to be at average 1 000mm centres and constructed for approximable 25deg pitch unless otherwise stated			
	b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions			
	c. Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut			
	d. Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to the effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable. The lump sum price of the roof trusses and purlins or battens (bottom purlin or tilting fillet to be wrought) shall include for the design and supervision by a Registered / Professional Engineer and for all necessary runners, overhangs wrought all round and trimmed and splay cut as required, braces, hoisting and fixing, etc.,but shall exclude fixing brackets and hurricane clips, wall plates, fascia, barge boards, roof coverings, purlins, etc. which are all separately measured			
	e. The tenderer's attention is drawn to the fact that the description of the trusses only represents the overall size (fascia to fascia) and not the required design			
	f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR			
	g. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing			
	<b>Carried to Collection</b>		R	
	Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery			

Item No		Quantity	Rate	Amount
<b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>				
<b><u>Plate nailed pitched timber roof construction</u></b>				
<b><u>Sawn Softwood</u></b>				
1	Design, supply and install roof truss system complete in accordance with the Standard Building Regulations to suit roof area (measured on flat floor area inclusive of overhangs, etc) and including, permanent bracing and 75 x 75mm purlins (38 x38mm battens) at 600mm centres for roof covering (wall plates elsewhere)- Refer to roof plans.	m2	2,571	
<b><u>Sundries</u></b>				
2	38 x 114mm wall plate	m	489.26	
3	TRI FIX or equal hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	817.00	
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Pressed fibre-cement:</u></b>				
4	12 x 225mm EVERITE NUTEC medium density fibre-cement fascia board (product no (041-202) or equal approved. Aluminium H-Profile fascia joiners (product no 685-1950. Drill and for fix with Hot dipped galvanised screws and washers.	m	489	
5	Extra on last for splay cut end.	No	22	
6	80 x 200mm EVERITE NUTEC fibre cement socketless Barge boards (Product no 521-731) or equal approved. Aluminium H-profile barge board joiners(product No 685-187). drill for and fix with Hot dipped galvanise screws and washers. 76 x 50mm trimmer batten fixed underside of purlin ends for barge board fixing.	m	118	
7	Extra on last for splay cut end.	No	22	
<b><u>DOORS ETC</u></b>				
<b>Carried to Collection</b>				R
Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery				

Item No			Quantity	Rate	Amount
	<b><u>Solid core hardwood panel door with commercial veneer to both sides of door and two hardwood edge strips, hung to steel or timber frames</u></b>				
8	2032 x 813 x 44mm Solid flush panel door with approved hardwood veneer both sides and two hardwood edge strips.	No	64		
9	2032 x 1500 x 44mm Solid flush panel double door with approved hardwood veneer both sides and two hardwood edge strips.	No	1		
	<b><u>FRAMES ETC</u></b>				
	<b><u>FRAMED FRAMES, MULLIONS, TRANSOMS, ETC</u></b>				
	<b><u>108x70mm rebated selected Red Meranti frame 19mm including Red meranti quadrants to junction of frame/ to have no. 4x300mm galvanised hoop iron building- and including 100x10mm dia mild steel dowels to door wall.</u></b>				
10	Size 813 x 2032mm High.	No	52		
11	Size 1500 x 2032mm High.	No	1		
	<b><u>SKIRTINGS</u></b>				
	<b><u>Wrought meranti:</u></b>				
12	19 x 76mm Skirting fixed to walls including 19mm quadrant bead planted on.	m	904		
	<b>Carried to Collection</b>				
	Section 3 New Works to Existing Structures (Provisional) Bill No. 4 Carpentry and Joinery				R



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Item No	Quantity	Rate	Amount
<b><u>BILL No. 5</u></b>			
<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Descriptions:</u></b>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
<b><u>Trade Names</u></b>			
Where trade names are specified equal materials approved by the Principal Agent may be used			
<b><u>NAILED UP CEILINGS</u></b>			
<b><u>6mm "Everite Nutec" or equal approved fibre-cement boards with 40 x 10mm hardwood cover strips</u></b>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	2,337
2	Extra over ceiling for forming trap door size 635 x 635mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers.	No	10
<b>Carried to Collection</b>			R
Section 3 New Works to Existing Structures (Provisional) Bill No. 5 Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	<b><u>Cornice</u></b>			
3	Everite Nucornice Nu-Cornice Plain 75 or equal approved, overall size 55 x 55mm high, fixed to wall and ceiling using Nucornice water-based adhesive, leaving 2mm vertical joints between sections. All vertical joints to be sealed with Nucornice adhesive prior to painting, all in accordance with the manufacturer's recommendations.	m	926	
	<b><u>100mm thick Aerolite or equal approved non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of branderling between roof timbers, all in accordance with manufacturer's recommendations.</u></b>			
	<b><u>• R-value: 2,50m² K/W</u></b>			
	<b><u>• Thermal conductivity: 0,04 W/m²/K</u></b>			
4	100mm Insulation laid between roof trusses and on top of branderling, etc.	m2	2,337	
<b>Carried to Collection</b>				R
Section 3				
New Works to Existing Structures (Provisional)				
Bill No. 5				
Ceilings, Partitions and Access Flooring				

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Item No		Quantity	Rate	Amount
	<b><u>BILL No. 6</u></b>			
	<b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>			
	<b><u>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary products in descriptions:</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
	<u>Cleaning:</u>			
	Rates for floor covering shall include for proper cleaning on completion.			
	<b><u>VINYL FLOOR COVERINGS</u></b>			
	<b><u>2.5mm thick x 300mm x 300mm wide Floorflex semi-flexible vinyl floor tiles laid in Marley No.60 Plus acrylic adhesive, or equal approved, spread with trowel having 1.5mm x 1.5mm x 1.5mm triangular notches at 4.00mm centres as per Architectural and Manufacturers specifications:</u></b>			
1	On floors	m2	1,986	
	<b><u>POLISH, SEALERS, ETC</u></b>			
	<b><u>Scrub with a diluted neutral detergent complying with SABS 825 and thoroughly rinse, Apply three coats of a water based floor dressing complying to SABS 1042 on:</u></b>			
2	Vinyl tile flooring	m2	1,986	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 6			
	Floor Coverings, Wall Linings, Etc.			
			R	

Item No		Quantity	Rate	Amount
	<b><u>BILL No. 7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Keys/Locks</u></b>			
	Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys			
	<b><u>Trade Names</u></b>			
	Where trade names are specified other ironmongery approved by the Principal Agent may be used			
	<b><u>Fixing</u></b>			
	Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
	<b><u>IRONMONGERY</u></b>			
	<b><u>Window ironmongery to match existing</u></b>			
1	Window hinges	No	80	
2	Window handles	No	80	
	<b><u>Union or equal approved Locks:</u></b>			
3	UNION RADIUS 4L LOCKSET SC Code - CZ6922461SC	No	29	
4	UNION RADIUS 2L LOCKSET SC Code - CZ6922495SC	No	35	
	<b>Carried to Collection</b>			
	Section 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 7			
	Ironmongery			
			R	

Item No		Quantity	Rate	Amount
	<b><u>Union or equal approved Door Stop</u></b>			
5	Door stop - Code - AL8730AS	No 64		
	<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u></b>			
6	VITREX Model 2000 series or similar & approved: standard vitreous enamel steel wall mounted educational range white board, overall size 2400x1200mm, complete with integral anodised aluminum pen rail, fixing components & secured in position to brickwork.	No 22		
7	Pinning board 4800 x 1200mm High overall of 9mm "Van Dyk" or equal approved pinning board glued to 3mm masonite back plugged and screwed to wall and framed with 70 x 22mm rebated wrought Saligna frame with one vertical middle rail.	No 22		
<b>Carried to Collection</b>				R
Section 3 New Works to Existing Structures (Provisional) Bill No. 7 Ironmongery				

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Item No		Quantity	Rate	Amount
	<b>BILL No. 10</b>			
	<b>TILING</b>			
	<b>MODEL PREAMBLES</b>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<b>SUPPLEMENTARY PREAMBLES</b>			
	Proprietary products in descriptions:			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
	Fixing:			
	Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.			
	<b>CERAMIC FLOOR TILING</b>			
	<b>NON SLIP JOHNSONS TILES ,Code: FE-074 Forte River Sand - Grade 'A' - 400 X 400 x 8mm thick with 'Tal Gold Star 6' rapid setting tile adhesive with 6mm wide joints continuous in both directions with joints pointed with 'Tal Fine Epoxy Grout'. Tile expansion joint spacing as per tiling manufacturers specification.</b>			
1	On smooth powerfloated floors.	m <sup>2</sup>	170	
2	70mm high tile skirting to match floor set into plaster so that face of tile level with finished plaster.	m	206	
	<b>WALL TILING</b>			
	<b>Carried to Collection</b>		R	
	Section 3 New Works to Existing Structures (Provisional) Bill No. 10 Tiling			

Item No		Quantity	Rate	Amount
	<b><u>200 x 200 x 4,7mm 'Johnson Matisse MWB4' white glazed wall tiles fixed with 'Tal Gold Star 6' rapid setting tile adhesive to plaster (elsewhere measured) with 2mm wide joints continuous in both directions with joints pointed with 'Tal Fine Epoxy Grout' at 2100mm high. Surfaces must be prepared as per the manufacturers specifications prior to installing the final wall finish. Tile expansion joint spacing as per tiling manufacturers specification. Tiled splash-backs to be provided at isolated WHB's at 600x600 around the WHB's.</u></b>			
3	On smooth plastered walls.	m2	700	
4	Ditto, on narrow widths.	m2	300	
5	On walls in isolated panels, splashbacks, etc.	m2	20	
	<b><u>SUNDRIES</u></b>			
	<b><u>FLOOR TILE EDGE TRIMS:</u></b>			
6	FLAT TRIM: 3mm thick MTrim Natural anodised aluminum flat bar trim to be installed at floor tile expansion as per the manufacturers specifications. Tile expansion spacing to be as per the manufacturers specifications. Depth of the edge trim to suite the floor finish (tile) thickness	m	65	
	<b>Carried to Collection</b>			
	Section 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 10			
	Tiling			

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Item No		Quantity	Rate	Amount
	<b><u>Vaal or equal Architect approved:</u></b>			
6	Supply and Install complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Vaal Sanitary: "Parktown" 90° outlet (Code 431500) 580 x 350 x 360mm high, white vitreous china WC suite with top inlet, closed rim back-to-wall pan, with rubber joint and fixing pan to concrete floor. Vaal Jazz Thermoset hinged Seat set (Code 8531Z0), with stainless steel hinges. Cobra Watertech: Code: FJ2-210 - Junior Flushmaster Flushvalves, top entry exposed type. Top entry + flush pipe, connector, wall flange, seat buffer. SANS 1240. Includes Flush valve, flush pipe, wall flange, compression pan connector, rubber seat buffer, & integral vacuum breaker. All Installation to be as per the manufacturers specifications	No	26	
7	Vaal (Code: VAA-700603) Rounded "Tuscany" 560x415x210mm basin with three semi-punched 1 x taphole configuration, integrated overflow, and chain stay hole through the centre semi-punched taphole. Fixing Bolt Set 10mm - Set of 2. (Code: VAA-8448Z0) for fixing to brickwork / concrete. Vitreous china classic full pedestal - Code: (VAA-715000). No pedestal for paraplegic WHB's. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications	No	7	
8	Vaal Sanitary: "Flatback Urinal" (Code 705326), size 415 x 315 x 275mm. Waste: Vaal sanitary ware 38mm chrome plated domical grating (code: 8787Z0). Vaal: Chrome plated top inlet spreader (code 8543Z0) & mounted onto to two hangar brackets (code 8127Z0) & bolted to walls. Cobra Watertech: Flushmaster Code: (FJ6.000CP) urinal flush valves, including FJT5-5 flush pipe, Offset urinal flush pipe = 215mm long x 15mm outlet with 27mm offset. Cobra Watertech: CP Bottle Trap, 32mm 360/50 trap joined to waste outlet fitting & pvc pipe. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications	No	4	
<b>Carried to Collection</b>				R
Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage				

Item No		Quantity	Rate	Amount
9	<p>Vaal Sanitary: "Pearl Paraplegic 7300SC" white vitreous china floor mounted paraplegic semi close couple 90° outlet open rim wash-down suite comprising wash-down pan, heavy duty white plastic hinged seat with flap and chrome plated bolts, 9 litre white vitreous china flushing valve type side inlet cistern complete with chrome plated lever handle, regulation ball valve, unions for inlet and flush pipes, white porcelain enamelled drawn steel flush pipe with rubber joint and fixing pan to concrete floor, cistern to wall, jointing flush pipe to cistern and pan and bolting seat to pan. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per manufacturer's spec's</p> <p><b><u>'Franke (t/a Citimetal)' or equal Architect approved stainless steel sanitary ware:</u></b></p>	No	1	
10	<p>FRANKE STRATOS CODE :STRX671L Double toilet Roll Holder without spindle system for wall mounting. Stainless steel surface satin finished ,with INOX PLUS surface refinement material thickness is 1.5mm, curved front cover, cylinder lock with FRANKEE standard key, inspection window on front, for 2 rolls at a maximum of Ø140mm. Second roll falls when clip is folded up into dispenser includes stainless steel screws &amp; dowels. SIZE - 170 x 343 x 160mm. Supply complete with all fittings, fixings, &amp; brackets. Installation to be as per the manufacturers specifications.</p>	No	26	
11	<p>WASH TROUGH: FRANKE Luxtub model LDL drop on wash trough overall size 600 x 500 x 258mm with one tap hole and fixed to wall on Falcon wall bracket with fixing lugs for wall mounting. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications. (WASTE, TRAP &amp; TAP): Waste: Cobra Watertech 32mm chrome plated slotted sink waste (Code: 301) with 62mm diameter flange, 80mm long shank, plug, chain and stay. Trap: Cobra Watertech 32mm 345/50 CP bottle trap jointed to waste outlet fitting and to PVC pipe. Taps: Cobra Watertech Code: 206EXT-15 - Wall mounted Star extended Bib tap. Chrome plated. Stop valves to be provided to all taps. Cobra: CP 832/350F: Valves, connectors, angle valves, &amp; 350mm braided flexi hose</p>	No	1	
<b>Carried to Collection</b>				R
<p>Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage</p>				

Item No		Quantity	Rate	Amount
12	SINK (MEDIA CENTRE): Franke Trendline 711 Model (SEB) Grade 304 18/10 polished stainless steel single end bowl drop on sink, size: 1050x535mm with one 460x350x140mm deep bowl, fitted onto cupboard. 40mm 'Cobra Watertech 316' chrome plated waste outlet fitting with rubber plug and chrome plated chain and stay. Trap: Cobra P-Trap 40x40mm reseal mini rubber. Tap: Cobra Watertech: Code: 111-20 Star pillar tap 20mm CP. Sink mounted pillar tap. Stop valves to be provided to all taps. Cobra: CP 832/350F: Valves, connectors, angle valves, & 350mm braided flexi hose. Sink bedded in silicone sealant on timber cupboard. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications.	No	1	
13	SINK (ADMIN KITCHEN): Franke Trendline 711 Model (SEB) Grade 304 18/10 polished stainless steel single end bowl drop on sink, size: 1200x535mm with one 460x350x140mm deep bowl, fitted onto cupboard. 40mm 'Cobra Watertech 316' chrome plated waste outlet fitting with rubber plug and chrome plated chain and stay. Trap: Cobra P-Trap 40x40mm reseal mini rubber. Tap Mixer: Cobra Watertech: Code: 'Star 166/041' two-handle sink mixer, CP wall mounted. Stop valves to be provided to all taps. Cobra: CP 832/350F: Valves, connectors, angle valves, & 350mm braided flexi hose. Sink bedded in silicone sealant on timber cupboard. Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers specifications	No	1	
14	FRANKE STRATOS CODE :STRX618 Soap dispenser for wall mounted liquid soap.\Stainless steel ,surface satin finished ,with INOX PLUS surface refinement material thickness is 1.5mm, curved front cover, cylinder lock with FRANKEE standard key, inspection window on front, suitable for liquid soap & lotion, 1 litre soap tank, push button on front, includes stainless steel screws & dowels. SIZE - 100 x 134 x 304mm. Supply complete with all fittings, fixings, sealants, connectors, brackets and pipes. Installation to be as per the manufacturers specifications	No	7	
<b>Carried to Collection</b>				R
Section 3				
New Works to Existing Structures (Provisional)				
Bill No. 11				
Plumbing and Drainage				

Item No		Quantity	Rate	Amount
15	STRX600 Paper towel dispenser for wall mounting. Stainless steel, surface satin finish, front with INOX PLUS surface refinement material 1.5mm thickness, curved front cover, inspection window, cylinder lock with FRANKEE standard key, loading capacity 300-400Z towels, includes stainless steel screws & dowels. Size : 300 x 134 x 304mm. Supply complete with all fittings, fixings, sealants, and brackets. Installation to be as per the manufacturers specifications	No	26	
16	BIN: FRANKE SRATOS CODE: STRX607: Open bin for wall mounting. Stainless steel, stainless steel surface satin finish, front with INOX PLUS surface refinement material 1.5mm thickness curved front cover, loading capacity 45 litres includes stainless steel screws & dowels. Size 396 x 270 x 520mm. Supply complete with all fittings, fixings, sealants, and brackets. Installation to be as per the manufacturers specifications.	No	7	
<b><u>TRAPS ETC</u></b>				
<b><u>'Cobra Watertech' or equal approved traps etc:</u></b>				
17	32mm Cobra Watertech chrome plated deep seal bottle trap with outlet for 50mm PVC (Code 345/50).	No	20	
18	110mm P trap with side outlet.	No	20	
<b><u>TAPS, VALVES, ETC</u></b>				
<b><u>'Cobra Watertech' or equal approved taps:</u></b>				
19	32mm 303CP Slotted with Ø62mm diameter flange & 80mm long shank + plug Includes, Flanged backnut, Plug, Ø62mm flange, 75mm long shank , 1 ¼" male inlet, CP. Trap: Supply complete with all fittings, fixings, sealants, valves, connectors, brackets and pipes. Installation to be as per the manufacturers spec's. Stop valves to all taps. Cobra: CP 832/350F: Valves, connectors, angle valves, & 350mm braided flexi hose.	No	10	
20	CP345/50 Bottle trap Includes, with 75mm deep re-seal & adjustable telescopic pipe, 1 ¼" female inlet x Ø50 mm outlet for PVC tube. Taps	No	10	
21	Taryn Metered Pillar tap KM2-100FS	No	12	
<b>Carried to Collection</b>				R
Section 3				
New Works to Existing Structures (Provisional)				
Bill No. 11				
Plumbing and Drainage				

Item No		Quantity	Rate	Amount
<b><u>SANITARY PLUMBING</u></b>				
<b><u>uPVC piping (SABS 967-1987):</u></b>				
22	32mm Waste pipes.	m	80	
23	50mm Waste pipe.	m	41	
24	110mm Ditto.	m	60	
25	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	180	
<b><u>Extra over uPVC piping for:</u></b>				
26	32mm Elbow	No	50	
27	32mm Tee	No	50	
28	50 x 32mm Reducer	No	50	
29	50mm Bend.	No	50	
30	110mm Ditto.	No	50	
31	110mm Pan connector.	No	34	
32	110mm Access bend.	No	34	
<b><u>uPVC gulley</u></b>				
33	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gulley (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar.	No	12	
<b><u>Testing:</u></b>				
34	Testing waste water pipe system.	Item		
<b><u>WATER SUPPLIES</u></b>				
<b>Carried to Collection</b>				R
Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage				

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Item No			Quantity	Rate	Amount
38	22mm Fittings.	No	100		
	<b><u>Testing:</u></b>				
39	Testing water supply pipe system.		Item		
	<b><u>FIRE APPLIENCES, ETC</u></b>				
	<b><u>Hose reels etc.</u></b>				
40	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut off nozzle and wall bracket.	No	5.00		
	<b><u>Fire extinguishers etc</u></b>				
41	4,5kg Dry chemical fire extinguisher with mounting bracket fixed to and including 19 x 144 x 500mm high wrought meranti backing board, four times bolted to wall with M8 expansion bolts.	No	7.00		
<b>Carried to Collection</b>					R
Section 3 New Works to Existing Structures (Provisional) Bill No. 11 Plumbing and Drainage					

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Section 3  
New Works to Existing Structures (Provisional)  
Bill No. 12  
Glazing

Item No	Quantity	Rate	Amount
<b><u>BILL No. 13</u></b>			
<b><u>PAINTWORK</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Proprietary products in descriptions:</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
All work to be executed in strict accordance with the specifications of the paint manufacturer.			
Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.			
<b><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></b>			
<b><u>ON FLOATED PLASTER</u></b>			
<b><u>Prepare and brush surface to remove all loose contaminants and apply one coat PP700 gypsum and plaster primer and two coats "Plascon Polvin" or equal approved emulsion paint for interior use</u></b>			
1	On internal walls	m2 3,000	
2	On narrow widths	m2 300	
<b>Carried to Collection</b>			R
Section 3 New Works to Existing Structures (Provisional) Bill No. 13 Paintwork			

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Section 3  
New Works to Existing Structures (Provisional)  
Bill No. 13  
Paintwork

Item No		Quantity	Rate	Amount
	<b><u>Prepare, touch up manufacturer's priming coat and apply one coat universal undercoat to SABS 681 Type II and two coats 'Velvagio' polyurethane enamel to SABS 630 on:</u></b>			
10	On window frames	m2	101.00	
11	On door frames	m2	10.00	
	<b><u>Prepare surfaces and remove all loose material, dust, grease, etc. and apply two coats silvershine aluminium paint on unweathered galvanised steel</u></b>			
12	On putty only of galvanised steel windows (measured on flat to external side only).	m2	101.00	
	<b><u>ON WOOD</u></b>			
	<b><u>Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats high gloss enamel paint:</u></b>			
13	On doors	m2	200	
14	On timber door frames	m2	180	
	<b><u>Three coats superior quality clear gloss varnish</u></b>			
15	On doors	m2	200	
16	Skirtings, rails, frames, etc not exceeding 300mm girth	m	902	
	<b><u>Prepare and brush surface to remove all loose contaminants and apply two coats "ABE Provonite" or equal approved carbolineum anti-corrosive coal tar paint</u></b>			
17	On exposed timbers.	m2	100	
	<b><u>ON FIBRE-CEMENT</u></b>			
	<b><u>Prepare and apply two coats pure acrylic roof paint on:</u></b>			
18	Fascias and barge boards.	m2	137	
<b>Carried to Collection</b>				R
Section 3 New Works to Existing Structures (Provisional) Bill No. 13 Paintwork				

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Section 4  
External Works (Provisional)  
Bill No. 1  
Roads and Parking

Item No		Quantity	Rate	Amount
	<b><u>EARTH FILLING, PAVING, ETC.</u></b>			
	<b><u>Filling supplied by the contractor under parking areas, roadways, etc</u></b>			
5	G2 Base course material compacted to 98% Mod AASHTO density	m3	144	
6	G7 Natural subbase material, compacted to 95% Mod AASHTO density	m3	144	
7	Subgrade material, compacted to 93% Mod AASHTO density	m3	144	
	<b><u>Compaction of surfaces.</u></b>			
8	Compaction of ground surface under roads, parkings, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material from excavated material where necessary and compacting to 93% Mod AASHTO density.	m2	960	
	<b><u>Prescribed density tests on filling:</u></b>			
9	In-situ dry density test.	No	5	
	<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u></b>			
10	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	960	
	<b><u>15Mpa/19mm Concrete</u></b>			
11	Surface blinding under footings.	m3	320	
	<b><u>25MPa/20mm concrete:</u></b>			
12	150mm Concrete with ref mesh 245.	m3	144	
	<b><u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u></b>			
13	180 x 280mm High kerbs (SANS 927 fig 6) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	500	
	<b>Carried to Collection</b>			
	Section 4			
	External Works (Provisional)			
	Bill No. 1			
	Roads and Parking			



Item No			Quantity	Rate	Amount
14	Ditto but circular on plan.	m	15		
	<b><u>Road marking:</u></b>				
15	Road marking paint 100mm wide on paved road surface.	m	100		
16	Characters, symbols and lines painted as standard 'ARROW' marking.	No	4		
17	Characters, symbols and lines painted as standard 'DISABLED' marking.	No	4		
<b>Carried to Collection</b>					R
Section 4					
External Works (Provisional)					
Bill No. 1					
Roads and Parking					

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Section 4  
External Works (Provisional)  
Bill No. 2  
Retaining Walls

Item No		Quantity	Rate	Amount
	<b><u>Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u></b>			
5	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	30	
	<b><u>Compaction of surfaces</u></b>			
6	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	45	
	<b><u>15Mpa/19mm Concrete</u></b>			
7	Surface blinding under footings and bases.	m3	2	
	<b><u>30Mpa/19mm Concrete</u></b>			
8	Strip footings.	m3	11	
	<b><u>Test blocks:</u></b>			
9	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	10	
	<b><u>Fabric reinforcement:</u></b>			
10	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	203	
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u></b>			
11	330mm thick cavity brick Walls made of two leafs of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured).	m2	158	
	<b><u>Openings in Walls etc.</u></b>			
12	Leave or form 32mm weephole through one brick wall	No	150	
<b>Carried to Collection</b>				R
Section 4				
External Works (Provisional)				
Bill No. 2				
Retaining Walls				

Item No		Quantity	Rate	Amount
	<b><u>Membranes</u></b>			
13	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	98	
	<b><u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u></b>			
14	19mm Stone.	m3	7	
<b>Carried to Collection</b>				R
Section 4 External Works (Provisional) Bill No. 2 Retaining Walls				

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Item No	Quantity	Rate	Amount
<b><u>BILL No. 3</u></b>			
<b><u>STORMWATER RETICULATION</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Concrete pipes:</u>			
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.			
<u>Exposed concrete surfaces:</u>			
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.			
<u>Excavations:</u>			
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.			
Soft rock and hard rock shall be as defined in Earthworks.			
<u>Laying, backfilling, bedding, etc of pipes:</u>			
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.			
<b>Carried to Collection</b>			
Section 4 External Works (Provisional) Bill No. 3 Stormwater reticulation			R

Item No		Quantity	Rate	Amount
	<p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p>SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p><u>Descriptions of pipes laid in trenches:</u></p> <p>Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor. Note minimum width of trench is 500mm on either side of pipe.</p> <p><u>Descriptions of catchpits, junction boxes, manholes, etc:</u></p> <p>Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.</p>			
	<b>Carried to Collection</b>		R	
	<p>Section 4 External Works (Provisional) Bill No. 3 Stormwater reticulation</p>			



Item No		Quantity	Rate	Amount
	<b><u>STORMWATER APRONS</u></b>			
	<u>Excavation not exceeding 2m deep</u>			
1	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	136	
	<b><u>Filling supplied by the contractor under concrete pavement, etc</u></b>			
2	G5 Base course material compacted to 98% Mod AASHTO density	m3	58	
3	G7 Natural subbase material, compacted to 95% Mod AASHTO density	m3	58	
	<b><u>Coarse river sand filling supplied by the contractor:</u></b>			
4	Under floors etc. (Provisional).	m3	19	
	<b><u>Compaction of surfaces:</u></b>			
5	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	388	
	<b><u>Prescribed density tests on filling:</u></b>			
6	In-situ dry density test.	No	10	
	<b><u>Rough Formwork to Sides:</u></b>			
7	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	323	
	<b><u>Reinforced 25Mpa/19mm Concrete:</u></b>			
8	Surface beds cast in panels on waterproofing.	m3	39	
	<b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>			
9	Surface beds, slabs, etc to falls and currents.	m2	388	
	<b>Carried to Collection</b>		R	
	Section 4 External Works (Provisional) Bill No. 3 Stormwater reticulation			

Item No		Quantity	Rate	Amount
	<b><u>Test blocks:</u></b>			
10	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No		
	<b><u>Fabric reinforcement:</u></b>			
11	REF. 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	388	
	<b><u>Waterproofing under Surface beds</u></b>			
12	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	388	
	<b><u>STORMWATER CHANNELS</u></b>			
13	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	43	
14	G5 Base course material compacted to 98% Mod AASHTO density	m3	21	
15	G7 Natural subbase material, compacted to 95% Mod AASHTO density	m3	21	
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	143	
17	25MPa precast concrete stormwater channel size 385 wide x 170mm deep in centre laid in position in ground in 2000mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating etc.	m	366	
18	Extra for 1000mm angle	No	11	
19	Extra for 1000mm T-intersection	No	6	
	<b>Carried to Collection</b>			
	Section 4			
	External Works (Provisional)			
	Bill No. 3			
	Stormwater reticulation			

Item No		Quantity	Rate	Amount
20	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	11	
	<b><u>STORMWATER DRAINAGE</u></b>			
	<u>Site Clearance, ETC</u>			
21	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20	
	<u>Excavation in earth not exceeding 2m deep:</u>			
22	Trenches.	m3	12	
	<u>Extra over all excavations for carting away:</u>			
23	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	12	
	<u>Risk of collapse of excavations:</u>			
24	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	5	
25	Ditto, but from ground level to exceeding 1,5m.	m2	12	
	<b><u>Filling supplied by the contractor under concrete pavement, etc</u></b>			
26	G5 Base course material compacted to 98% Mod AASHTO density	m3	2	
27	G7 Natural subbase material, compacted to 95% Mod AASHTO density	m3	2	
	<b><u>Coarse river sand filling supplied by the contractor:</u></b>			
28	Under floors etc. (Provisional).	m3	2	
	<b>Carried to Collection</b>			
	Section 4			
	External Works (Provisional)			
	Bill No. 3			
	Stormwater reticulation			

Item No		Quantity	Rate	Amount
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
29	Backfilling to trenches, holes, etc.	m3	9	
	<b><u>Prescribed density tests on filling:</u></b>			
30	In-situ dry density test.	No	5	
	<u>Keeping excavations free of water:</u>			
31	Keeping excavations free from mud and all water including subterranean sources.	Item		
	<u>Compaction of surfaces</u>			
32	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	10	
<b>Carried to Collection</b>				R
Section 4				
External Works (Provisional)				
Bill No. 3				
Stormwater reticulation				

**Carried to Collection**

Section 4  
External Works (Provisional)  
Bill No. 3  
Stormwater reticulation

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Item No	Quantity	Rate	Amount
<b><u>BILL No. 4</u></b>			
<b><u>SEWER RETICULATION</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SOIL DRAINAGE</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>uPVC pipes and fittings</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed.			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.			
<u>Excavations:</u>			
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.			
Soft rock and hard rock shall be as defined in Earthworks.			
<u>Laying, backfilling, bedding, etc of pipes:</u>			
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.			
<b>Carried to Collection</b>			R
Section 4 External Works (Provisional) Bill No. 4 Sewer Reticulation			

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Item No			Quantity	Rate	Amount
4	Unreinforced concrete bedding under pipes	m3	1		
5	Selected granular filling in bedding under and filling around pipes	m3	1		
6	Imported backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density (class A material) to pipe trenches.	m3	4		
7	Selected Backfill material from excavations to drain pipes compacted to 93% Mod ASSHTO density.	m3	3		
8	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk) to a dumping site to be found by the Contractor.	m3	2		
<b><u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u></b>					
9	110mm Pipes laid in trenches (trenches elsewhere)	m	10		
<b><u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u></b>					
10	110mm Bend	No	2		
11	110mm Junction	No	2		
12	110mm Rodding eye	No	2		
<b><u>The following in precast concrete manholes.</u></b>					
13	Inspection chamber 1 000mm diameter exceeding 1 000mm and not exceeding 2 000mm deep internally, formed of standard precast walling sections to suite height built on 20 MPa base and benching latter finished with 25mm thick grano sloped at 1:6, half round vitrified clay or other approved channel inverts, including 150mm medium duty precast concrete cover slab in 1:2 mortar and Type 4 light duty cover and medium duty cast iron frame.	No	2		
<b><u>Sundries:</u></b>					
14	Unreinforced concrete encasing to 110mm vertical bend.	m3	1		
<b>Carried to Collection</b>					R
Section 4					
External Works (Provisional)					
Bill No. 4					
Sewer Reticulation					

Item No		Quantity	Rate	Amount
15	300 x 300 x 75mm Precast concrete inspection eye marker slab set in ground.	No2		
	<b>Testing</b>			
16	Testing sewer pipe system	Item		
Carried to Collection				R
Section 4				
External Works (Provisional)				
Bill No. 4				
Sewer Reticulation				

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Item No	Quantity	Rate	Amount
<b><u>BILL No. 5</u></b>			
<b><u>RAINWATER TANKS AND STANDS</u></b>			
<b><u>MODEL PREAMBLES</u></b>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Density testing on filling:</u>			
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.			
<b><u>EARTHWORKS</u></b>			
<b><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></b>			
<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
1	Trenches. m3	30	
<b><u>Extra over trench and hole excavations in earth for excavation:</u></b>			
2	Soft rock. m3	2	
3	Hard rock. m3	1	
<b><u>Extra over all excavations for carting away:</u></b>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor. m3	20	
<b>Carried to Collection</b>			R
Section 4 External Works (Provisional) Bill No. 5 Rainwater Tanks and Stands			

Item No		Quantity	Rate	Amount
	<b><u>Risk of collapse of excavations:</u></b>			
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	95	
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u></b>			
6	Backfilling to trenches, holes, etc.	m3	10	
	<b><u>Earth filling supplied by the Contractor compacted to 95% MOD AASHTO:</u></b>			
7	Under floors, steps, pavings, etc.	m3	30	
	<b><u>Compaction of surfaces</u></b>			
8	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	
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<b><u>25Mpa/19mm Concrete</u></b>			
9	Strip footings.	m3	10	
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>25 MPa/19mm Concrete:</u></b>			
10	Tank concrete slab.	m3	10	
Carried to Collection				R
Section 4				
External Works (Provisional)				
Bill No. 5				
Rainwater Tanks and Stands				

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Item No			Quantity	Rate	Amount
	<b><u>BRICKWORK AND BLOCKWORK SUNDRIES</u></b>				
	<b><u>Brickwork reinforcement:</u></b>				
16	230mm Wide reinforcement built in horizontally.	m	200		
17	Ditto, but in foundations (Provisional).	m	170		
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>"Fireside Travertine FBS" clay face brick or equal</u></b> <b><u>Architect approved, size 222 x 106 x 73mm, bedded</u></b> <b><u>and jointed in Class II mortar and pointed with</u></b> <b><u>recessed vertical and recessed horizontal joints,</u></b> <b><u>suitable for exposure zones 1-2:</u></b>				
18	Extra over brickwork for face brickwork externally.	m2	50		
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	<b><u>TANKS ETC</u></b>				
	<b><u>Plastic water tanks etc:</u></b>				
19	5000 Litre light duty cylindrical tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	10		
20	Hole top of tank for 100mm pipe.	No	10		
	<b>Carried to Collection</b>				
	Section 4			R	
	External Works (Provisional)				
	Bill No. 5				
	Rainwater Tanks and Stands				

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Item No		Quantity	Rate	Amount
	<b><u>Fencing and posts</u></b>			
3	'Cochrane Steel' ClearVU II or equal Architect approved high density anti-climbing and anti-cut pressed mesh panel fencing 1800mm high, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile line galvanised wires with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 - 45mm taper post 2,45m high at 2,100m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors (elsewhere measured) with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep (elsewhere measured).	m	700	
4	60mm x 60mm x 3mm Thick posts 2450mm long at 3000mm centres with fitted sealed end caps and 250mm x 30mm x 3mm angle base sections.	No	350	
5	Gate post 2450mm long.	No	4	
	<b><u>Gates</u></b>			
6	Single leaf pedestrian swing gate. Size 1000mm x 1800mm high.	No	1	
7	Two leafed vehicular swing gate. Size 4000mm x 1800mm high.	No	1	
	<b><u>Bases</u></b>			
8	Concrete Class 15MPa/19mm concrete in base size 400 x 400 x 600mm deep finished smooth on top, including necessary excavation.	No	364	
	<b><u>Padlocks</u></b>			
9	63mm Brass five pin tumbler padlock with two keys	No	2	
10	Locking chain 600mm long with 50mm links.	No	2	
	<b><u>Fence Toppings</u></b>			
11	100mm high toughened steel Spear spike shall be affixed to panel edge, internally at 150mm intervals using Anti-vandal bolts. Spike finish shall be Hot Dipped Galvanized and fusion-bond epoxy powder coated (or similar).	m	700	
<b>Carried to Collection</b>				R
Section 4				
External Works (Provisional)				
Bill No. 6				
Security Fencing				

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Item No			Quantity	Rate	Amount
	<b><u>SECTION 5</u></b>				
	<b><u>BILL No. 1: ELECTRICAL INSTALLATION (PROVISIONAL)</u></b>				
	<b><u>SITE WORKS</u></b>				
	<b><u>NEW DISTRIBUTION KIOSK</u></b>				
	<b><u>Supply, Installation and commissioning of kiosk including marking of all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere. Refer detailed specification Clause C3.</u></b>				
	5 Way Distribution Kiosk-With fibre glass cover				
1	Supply	No	1		
2	Install	No	1		
	<b><u>Low Voltage Cable and Installation</u></b>				
	Supply, delivery and installation of 400V PVC/SWA/ECC/PVC Copper cables. Installed on surface, on rack, cable sleeve or trench.				
	50 mm <sup>2</sup> 4 Core				
3	Supply	m	150		
4	Install	m	150		
	25 mm <sup>2</sup> 2 Core				
5	Supply	m	300		
6	Install	m	300		
	16 mm <sup>2</sup> 2 Core				
7	Supply	m	350		
8	Install	m	350		
	<b>Carried to Collection</b>				R
	Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations				

Item No			Quantity	Rate	Amount
	<b><u>Low Voltage Cable Termination</u></b>				
	Terminations of low voltage PVC/SWA/ECC/PVC cable complete with glands, shrouds, lugs and connection and fire rated glands and shrouds where required.				
	50 mm <sup>2</sup> 4 Core				
9	Supply	No	2		
10	Install	No	2		
	25 mm <sup>2</sup> 2 Core				
11	Supply	No	14		
12	Install	No	14		
	16 mm <sup>2</sup> 2 Core				
13	Supply	No	12		
14	Install	No	12		
	<b><u>Cable Trenching and Sleeves</u></b>				
	Trenching: excavation backfilling and compaction of above cable to depth of 500mm x 500mm width including PVC marker tape. Soft and hard rock excavation				
15	Hard Rock - Including breaking of tar or concrete.	m3	22		
16	Soft Rock	m3	115		
	110mm PVC Sleeve				
17	Supply	m	250		
18	Install	m	250		
	50mm PVC Sleeve				
19	Supply	m	200		
20	Install	m	200		
	<b>Carried to Collection</b>				R
	Section 5				
	Electrical Installations (Provisional)				
	Bill No. 1				
	Electrical Installations				

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Item No			Quantity	Rate	Amount
	<b><u>BLOCK - A - (CLASSROOMS)</u></b>				
	<b><u>Distribution board installation</u></b>				
	Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C4.				
	12 way surface mounted distribution board				
23	Supply	No	1		
24	Install	No	1		
	<b><u>Conduit:</u></b>				
	Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing).				
	20mm PVC				
25	Supply	m	100		
26	Install	m	100		
	25mm PVC				
27	Supply	m	30		
28	Install	m	30		
	<b><u>Conduit Boxes and Terminations</u></b>				
	Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination.				
	75mm PVC round shallow or deep 1,2,3 or 4 way				
29	Supply	No	10		
30	Install	No	10		
	<b>Carried to Collection</b>				R
	Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations				



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Item No			Quantity	Rate	Amount
	<b><u>Power Outlets and Switches</u></b>				
	Supply, delivery and installation of normal 16A, 3PIN Euro type sockets -outlets as per SANS 164-2, with earth shutters and switching devices. Boxes measured elsewhere.				
	16A Euro SSO mounted in surface box or galvanised chased-in boxes.				
43	Supply	No	10		
44	Install	No	10		
	16A 1 Lever light switch mounted in surface box or galvanised box.				
45	Supply	No	20		
46	Install	No	20		
	16A 2 Lever light switch mounted in surface box or galvanised box.				
47	Supply	No	12		
48	Install	No	12		
	20A DP isolator				
49	Supply	No	5		
50	Install	No	5		
	<b>Carried to Collection</b>				
	Section 5				
	Electrical Installations (Provisional)				
	Bill No. 1				
	Electrical Installations				

**Carried to Collection**

Item No			Quantity	Rate	Amount
	<b><u>BLOCK - B - (CLASSROOM)</u></b>				
	<b><u>Distribution board installation</u></b>				
	Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C4.				
	12 way surface mounted distribution board				
58	Supply	No	1		
59	Install	No	1		
	<b><u>Conduit:</u></b>				
	Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing).				
	20mm PVC				
60	Supply	m	300		
61	Install	m	300		
	25mm PVC				
62	Supply	No	100		
63	Install	No	100		
	<b><u>Conduit Boxes and Terminations</u></b>				
	Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination.				
	75mm PVC round shallow or deep 1,2,3 or 4 way				
64	Supply	No	40		
65	Install	No	40		
	<b>Carried to Collection</b>				
	Section 5				
	Electrical Installations (Provisional)				
	Bill No. 1				
	Electrical Installations				

Item No			Quantity	Rate	Amount
	20mm Conduit ends				
66	Supply	No	40		
67	Install	No	40		
	25mm Conduit ends				
68	Supply	No	10		
69	Install	No	10		
	4 x 4 PVC flush box				
70	Supply	No	6		
71	Install	No	6		
	<b><u>Conductors</u></b>				
	PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting				
	2.5 mm <sup>2</sup>				
72	Supply	m	2,000		
73	Install	m	2,000		
	4 mm <sup>2</sup>				
74	Supply	m	800		
75	Install	m	800		
	<b><u>Power Outlets and Switches</u></b>				
	Supply, delivery and installation of normal 16A, 3PIN Euro type sockets -outlets as per SANS 164-2, with earth shutters and switching devices. Boxes measured elsewhere.				
	16A Euro SSO mounted in surface box or galvanised chased-in boxes.				
76	Supply	No	7		
<b>Carried to Collection</b>					R
Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations					

Item No			Quantity	Rate	Amount
77	Install	No	7		
	16A 1 Lever light switch mounted in surface box or galvanised box.				
78	Supply	No	5		
79	Install	No	5		
	16A 2 Lever light switch mounted in surface box or galvanised box.				
80	Supply	No	3		
81	Install	No	3		
	20A DP isolator				
82	Supply	No	2		
83	Install	No	2		
Carried to Collection					R
Section 5					
Electrical Installations (Provisional)					
Bill No. 1					
Electrical Installations					

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Item No			Quantity	Rate	Amount
	<b><u>BLOCK - C - (CLASSROOMS)</u></b>				
	<b><u>Distribution board installation</u></b>				
	Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C4.				
	12 way surface mounted distribution board				
91	Supply	No	1		
92	Install	No	1		
	<b><u>Conduit:</u></b>				
	Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing).				
	20mm PVC				
93	Supply	m	2,000		
94	Install	m	2,000		
	25mm PVC				
95	Supply	m	100		
96	Install	m	100		
	<b><u>Conduit Boxes and Terminations</u></b>				
	Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination.				
	75mm PVC round shallow or deep 1,2,3 or 4 way				
97	Supply	No	250		
98	Install	No	250		
	<b>Carried to Collection</b>				R
	Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations				



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Item No			Quantity	Rate	Amount
	<b><u>Power Outlets and Switches</u></b>				
	Supply, delivery and installation of normal 16A, 3PIN Euro type sockets -outlets as per SANS 164-2, with earth shutters and switching devices. Boxes measured elsewhere.				
	16A Euro SSO mounted in surface box or galvanised chased-in boxes.				
111	Supply	No	12		
112	Install	No	12		
	16A 1 Lever light switch mounted in surface box or galvanised box.				
113	Supply	No	7		
114	Install	No	7		
	16A 2 Lever light switch mounted in surface box or galvanised box.				
115	Supply	No	2		
116	Install	No	2		
	20A DP isolator				
117	Supply	No	2		
118	Install	No	2		
	<b>Carried to Collection</b>				
	Section 5				
	Electrical Installations (Provisional)				
	Bill No. 1				
	Electrical Installations				

R

**Carried to Collection**

Item No			Quantity	Rate	Amount
	<b><u>BLOCK D</u></b>				
	<b><u>Distribution board installation</u></b>				
	Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C4.				
	12 way surface mounted distribution board				
126	Supply	No	1		
127	Install	No	1		
	<b><u>Conduit:</u></b>				
	Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing).				
	20mm PVC				
128	Supply	m	750		
129	Install	m	750		
	25mm PVC				
130	Supply	m	100		
131	Install	m	100		
	<b><u>Conduit Boxes and Terminations</u></b>				
	Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination.				
	75mm PVC round shallow or deep 1,2,3 or 4 way				
132	Supply	No	150		
133	Install	No	150		
	<b>Carried to Collection</b>				R
	Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations				

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Item No			Quantity	Rate	Amount
	<b><u>Power Outlets and Switches</u></b>				
	Supply, delivery and installation of normal 16A, 3PIN Euro type sockets -outlets as per SANS 164-2, with earth shutters and switching devices. Boxes measured elsewhere.				
	16A Euro SSO mounted in surface box or galvanised chased-in boxes.				
146	Supply	No	12		
147	Install	No	12		
	16A 1 Lever light switch mounted in surface box or galvanised box.				
148	Supply	No	8		
149	Install	No	8		
	16A 2 Lever light switch mounted in surface box or galvanised box.				
150	Supply	No	2		
151	Install	No	2		
	20A DP isolator				
152	Supply	No	2		
153	Install	No	2		
	<b>Carried to Collection</b>				
	Section 5				
	Electrical Installations (Provisional)				
	Bill No. 1				
	Electrical Installations				

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Item No			Quantity	Rate	Amount
	<b><u>BLOCK - E</u></b>				
	<b><u>Distribution board installation</u></b>				
	Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C4.				
	12 way surface mounted distribution board				
161	Supply	No	1		
162	Install	No	1		
	<b><u>Conduit:</u></b>				
	Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing).				
	20mm PVC				
163	Supply	m	500		
164	Install	m	500		
	25mm PVC				
165	Supply	m	200		
166	Install	m	200		
	<b><u>Conduit Boxes and Terminations</u></b>				
	Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination.				
	75mm PVC round shallow or deep 1,2,3 or 4 way				
167	Supply	No	100		
168	Install	No	100		
	<b>Carried to Collection</b>				R
	Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations				



Item No			Quantity	Rate	Amount
	20mm Conduit ends				
169	Supply	No	200		
170	Install	No	200		
	25mm Conduit ends				
171	Supply	No	50		
172	Install	No	50		
	4 x 4 PVC flush box				
173	Supply	No	22		
174	Install	No	22		
	2 x 4 PVC flush box				
175	Supply	No	3		
176	Install	No	3		
	<b><u>Conductors</u></b>				
	PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting				
	2.5 mm <sup>2</sup>				
177	Supply	m	3,600		
178	Install	m	3,600		
	4 mm <sup>2</sup>				
179	Supply	m	1,500		
180	Install	m	1,500		
<b>Carried to Collection</b>					R
Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations					

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Item No			Quantity	Rate	Amount
	<b><u>BLOCK - F</u></b>				
	<b><u>Distribution board installation</u></b>				
	Supply and install in position, mounting and earthing the board. (Excluding Cable and Conduit terminations) Preparation checking and installing typed legend cards into Distribution Board. Refer detailed specification Clause C4.				
	12 way surface mounted distribution board				
192	Supply	No	1		
193	Install	No	1		
	<b><u>Conduit:</u></b>				
	Installation of rigid PVC conduits including fixings, couplings, bends, drawboxes, waste, etc. Installed on surface on wall, on ceiling void, in chase, or cast into concrete (excluding chasing).				
	20mm PVC				
194	Supply	m	150		
195	Install	m	150		
	25mm PVC				
196	Supply	m	10		
197	Install	m	10		
	<b><u>Conduit Boxes and Terminations</u></b>				
	Conduit outlet boxes without covers installed on surface, in ceiling void, in chase or cast in concrete complete with conduit termination.				
	75mm PVC round shallow or deep 1,2,3 or 4 way				
198	Supply	No	4		
199	Install	No	4		
	<b>Carried to Collection</b>				R
	Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations				

Item No			Quantity	Rate	Amount
	20mm Conduit ends				
200	Supply	No	10		
201	Install	No	10		
	25mm Conduit ends				
202	Supply	No	2		
203	Install	No	2		
	4 x 4 PVC flush box				
204	Supply	No	2		
205	Install	No	2		
	2 x 4 PVC flush box				
206	Supply	No	2		
207	Install	No	2		
	<b><u>Conductors</u></b>				
	PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting				
	2.5 mm²				
208	Supply	m	300		
209	Install	m	300		
	4 mm²				
210	Supply	m	50		
211	Install	m	50		
<b>Carried to Collection</b>					R
Section 5 Electrical Installations (Provisional) Bill No. 1 Electrical Installations					

Item No			Quantity	Rate	Amount
	<b><u>Power Outlets and Switches</u></b>				
	Supply, delivery and installation of normal 16A, 3PIN Euro type sockets -outlets as per SANS 164-2, with earth shutters and switching devices. Boxes measured elsewhere.				
	16A Euro SSO mounted in surface box or galvanised chased-in boxes.				
212	Supply	No	4		
213	Install	No	4		
	16A 1 Lever light switch mounted in surface box or galvanised box.				
214	Supply	No	2		
215	Install	No	2		
	16A 2 Lever light switch mounted in surface box or galvanised box.				
216	Supply	No	1		
217	Install	No	1		
	20A DP isolator				
218	Supply	No	1		
219	Install	No	1		
	<b>Carried to Collection</b>				
	Section 5				
	Electrical Installations (Provisional)				
	Bill No. 1				
	Electrical Installations				

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**Carried Forward**

**Carried Forward**

Bill No	Section 5	Page No	R	Amount
	Electrical Installations (Provisional)			
	<b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b>			
	<b>Brought Forward</b>			
	<b><u>NEW DISTRIBUTION BOARDS</u></b>			
	Supply and installation and commissioning of Distribution Boards as specified including making off all wire connections (flush mounted board not larger than 1500mm x 1500mm) Note: External wiring, conduit, armoured cable and terminations given elsewhere. All Distribution Boards shall comply fully with the Standard Specification Part A and shall comply fully with SANS 10142-1 with latest Amendments			
	Main LV Board (db block A)			
	Supply	No		
	Install	No		
	Distribution Board (db block B)			
	Supply	No		
	Install	No		
	Distribution Board (db block C)			
	Supply	No		
	Install	No		
	Distribution Board (db block D)			
	Supply	No		
	Install	No		
	Distribution Board (db block E)			
	Supply	No		
	Install	No		
	Distribution Board (db block F)			
	Supply	No		
	Install	No		
	<b>Carried Forward</b>		R	
	Section 5 Electrical Installations (Provisional)			

Bill No	Section 5		Page No	R	Amount	
	Electrical Installations (Provisional)					
	<b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b>					
	<b>Brought Forward</b>					
	Distribution Board (db block G) Supply	No				
	Install	No				
	Distribution Board (db block H) Supply	No				
	Install	No				
	Distribution Board (db block J) Supply	No				
	Install	No				
	Distribution Board (db block K) Supply	No				
	Install	No				
	Distribution Board (db block L1 - L2) Supply	No				
	Install	No				
	Distribution Board (db block C6) Supply	No				
	Install	No				
	Distribution Board (db block C4) Supply	No				
	Install	No				
	<b>Carried Forward</b>					R
	Section 5 Electrical Installations (Provisional)					

Bill No	<p>Section 5</p> <p>Electrical Installations (Provisional)</p> <p><b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b></p> <p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>EXISTING DISTRIBUTION BOARDS</u></b></p> <p>Supply and install the following additional switchgear into existing distribution boards as instructed by the Engineer on site, including wiring and terminations as required.</p> <p>60A single phase 20 mA integral earth leakage unit with overload trip (5kA) Supply No</p> <p>Install No</p> <p>80A TP MCB (5kA) Supply No</p> <p>Install No</p> <p>60A TP MCB (5kA) Supply No</p> <p>Install No</p> <p>60A DP MCB (5 kA) Supply No</p> <p>Install No</p> <p>10A SP MCB (5kA) Supply No</p> <p>Install No</p> <p>20A SP MCB (5KA) Supply No</p> <p>Install No</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section 5</p> <p>Electrical Installations (Provisional)</p>	Page No	R	Amount

Bill No	Section 5	Page No	R	Amount
	Electrical Installations (Provisional)			
	<b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b>			
	<b>Brought Forward</b>			
	<b><u>TEST AND CERTIFICATE OF COMPLIANCE:</u></b>			
	The Contractor shall issue a certificate of Compliance for each distribution board and associated installation.			
	Main LV Board (db block A)		SUM	
	Distribution Board (db block B)		SUM	
	Distribution Board (db block C)		SUM	
	Distribution Board (db block D)		SUM	
	Distribution Board (db block E)		SUM	
	Distribution Board (db block F)		SUM	
	Distribution Board (db block G)		SUM	
	Distribution Board (db block H)		SUM	
	Distribution Board (db block J)		SUM	
	Distribution Board (db block K)		SUM	
	Distribution Board (db block L1 - L2)		SUM	
	Distribution Board (db block C6)		SUM	
	Distribution Board (db block C4)		SUM	
	<b><u>CONDUIT TERMINATIONS:</u></b>			
	PVC conduit terminations to distribution boards including adaptor and locknut			
	20mm	No		
	25mm	No		
	<b>Carried Forward</b>		R	
	Section 5 Electrical Installations (Provisional)			

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	<b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b>			
	<b>Brought Forward</b>	Page No	R	Amount
	100 x 100mm flush box	No		
	<b><u>CONDUCTORS:</u></b>			
	PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting.			
	2.5 mm² PVC	m		
	1,6mm draw wire	m		
	<b><u>CABLE TESTS:</u></b>			
	LV Cable tests as specified on all cables and Issuing of required Test Certificates.	No		
	<b><u>SWITCHED SOCKET OUTLETS:</u></b>			
	Flush mounted socket outlets complete with cover plate but excluding wall boxes.			
	16A 3 pin flush sso	No		
	16A 3 pin duo flush sso	No		
	16A 3 pin duo sso on power skirting	No		
	<b><u>LIGHT SWITCHES:</u></b>			
	Flush mounted complete with cover plates but excluding wall outlet box.			
	16A 1 lever 1 way	No		
	16A 2 lever sw.	No		
	Photo electric cell	No		
	<b>Carried Forward</b>		R	
	Section 5			
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<b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b>		
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<b><u>LUMINAIRES:</u></b>		
Take delivery, store, protect, erect, fix, connect and lamp the following luminaires.		
Type F (2x36W LED) No		
Type B (2x8W LED) No		
<b><u>LOW VOLTAGE CABLE &amp; INSTALLATION</u></b>		
Supply, delivery and installation of 600/1100V PVC/SWA/ECC/PVC Copper cables as specified, installed in trench or on surface or on cable tray or pulled through sleeves (excluding cost to supply and install tray)		
70 mm <sup>2</sup> x 4 core m		
35 mm <sup>2</sup> x 4 core m		
25 mm <sup>2</sup> x 4 core m		
25 mm <sup>2</sup> x 2 core m		
16 mm <sup>2</sup> x 2 core m		
10 mm <sup>2</sup> x 2 core m		
<b><u>LOW VOLTAGE CABLE TERMINATIONS:</u></b>		
Terminations of Low Voltage PVC/SWA/PVC cable complete with glands, shrouds, lugs and connection		
70 mm <sup>2</sup> x 4 core No		
35 mm <sup>2</sup> x 4 core No		
25 mm <sup>2</sup> x 4 core No		
<b>Carried Forward</b>		R
Section 5 Electrical Installations (Provisional)		

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			R	
	25 mm <sup>2</sup> x 2 core	No		
	16 mm <sup>2</sup> x 2 core	No		
	10 mm <sup>2</sup> x 2 core	No		
	<b><u>TRENCHING FOR CABLES:</u></b>			
	Trenching for PVC/SWA/PVC/ cable as per the specification			
	50 mm PVC	m		
	<b><u>ELECTRICAL CONNECTION UPGRADE:</u></b>			
	Provisional Sum for Electrical Connection Fee.	Item		
	Profit on above item.		%	
	Allowance for Attendance.		%	
	<b><u>FIRE PROTECTION:</u></b>			
	Provisional Sum for Fire Protection.	Item		
	Profit on above item.		%	
	Allowance for Attendance.		%	
	<b><u>AIR CONDITIONING:</u></b>			
	Provisional Sum for Air Conditioning.	Item		
	Profit on above item.		%	
	Allowance for Attendance.		%	
	<b>Carried Forward</b>		R	
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	<b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b>			
	<b>Brought Forward</b>	Page No	R	Amount
	<b><u>VENTILATIONS:</u></b>			
	Provisional Sum for Ventilations.	Item		
	Profit on above item.		%	
	Allowance for Attendance.		%	
	<b><u>GAS STOVE:</u></b>			
	Provisional Sum for Gas Stove.	Item		
	<b><u>LAB GAS:</u></b>			
	Provisional Sum for VPhysics Lab Gas.	Item		
	<b><u>EXTRACT:</u></b>			
	Provisional Sum for Extract.	Item		
	<b><u>DEMOLITIONS</u></b>			
	Provisional sum for disconnecting all circuits in the existing buildings before demolitions begin.	Item		
	<b><u>POWER RELOCATION</u></b>			
	Provisional sum for relocating 60A Supply during demolitions.	Item		
	<b><u>LIGHTNING PROTECTION:</u></b>			
	Provisional Sum for Supply and installation of Lightning Protection System.	Item		
	<b><u>CONTINGENCY AMOUNT</u></b>			
	Contingency amount to be directed for as per the Electrical Engineer's instructions.	Item		
	<b>Carried Forward</b>		R	
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	<b><u>SECTION SUMMARY - Electrical Installations (Provisional)</u></b>			
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	<b><u>INTERCOM</u></b>			
	Provisional Sum for Supply and installation of Intercom system.	Item		
	<b><u>MANHOLES</u></b>			
	Allow for building 600mm x 600mm manhole	No		
	<b><u>COMMISSIONING AND TESTING:</u></b>			
	Commissioning and Testing of the entire new Installation, including the Provision of a Compliance Certificate and O & M Manuals	Item		
	<b><u>GUARANTEE AND MAINTENANCE:</u></b>			
	Guarantee and maintenance for the complete installation of the Electrical Installation including fittings, materials and workmanship for a period of TWELVE MONTHS (12) after date of completion and handover	Item		
	<b><u>AS BUILT DRAWINGS:</u></b>			
	Provision for 2 sets of 'As Built Drawings'	Item		
	<b><u>POWER SKIRTING</u></b>			
	Supply and install Power skirting complete with all fixings, separate covers and accessories.			
	Two compartment Power skirting - on straight wall	m		
	Two compartment Power skirting - End caps	No		
	Two compartment Power skirting - Internal angles	No		
	Two compartment Power skirting - External angles	No		
	Two compartment Power skirting - 90 degree bends	No		
	<b>Carried Forward</b>		R	
	Section 5			
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Item No		Quantity	Rate	Amount
	<b><u>SECTION 6</u></b>			
	<b><u>BILL No. 1 : PROVISIONAL SUMS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
	<b><u>The following amounts are for work to be carried out by Selected sub-contractors in terms of the Nominated/Selected Subcontract Agreement as prepared by the Joint Building Contracts Committee (JBCC):</u></b>			
1	Provide the sum of R150 000.00 for the appointment of Asbestos Inspection Authority (AIA).	Item		150,000.00
2	Add: Profit & attendance		%	
3	Provide the sum of R100 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R10 000.00 per month for the contract duration (10 months)	Item		100,000.00
4	Add: Profit & attendance		%	
5	Provide the sum of R30 000.00 for Signage.	Item		30,000.00
	<b>MINIMUM TARGETED ENTERPRISE DEVELOPMENT</b>			
6	A provisional amount has been allowed for in the execution of this project as described in C3.1 Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PS		338 271.70
7	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
8	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
	<b>Carried to Final Summary</b>		R	
	Section 6			
	Provisional Sums			
	Bill No. 1			
	Provisional Sums			

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