

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1 : PRELIMINARIES</u>			
	<u>BILL No. 1 : PRELIMINARIES</u>			
	<u>NOTES</u>			
	1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.			
	2. The Preliminaries shall be JBCC Series, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.			
	3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.			
	4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.			
	5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.			
	6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.			
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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.			
<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>			
<u>DEFINITIONS</u>			
1 Definitions and interpretation (clause 1)	Item		
<u>OBJECTIVE AND PREPARATION</u>			
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'.			
F..... V T	Item		
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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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Item No		Quantity	Rate	Amount
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		
	EXECUTION			
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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Item No		Quantity	Rate	Amount
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		
<u>COMPLETION</u>				
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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Item No		Quantity	Rate	Amount
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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Item No	Quantity	Rate	Amount
<u>PAYMENT</u>			
31			
Interim payment to the contractor (Clause 31).			
<p>The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank and clause 31.6.5 is therefore not applicable.</p> <p>Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.</p> <p>Clause 31.9 is amended as follows:</p> <p>'Payment shall be subject to the Employer giving the Contractor a Tax Invoice for the amount due. The Employer undertakes to ensure compliance with the administrative requirements of Sections 20 (2) and 21 (4) of the Value Added Tax Act (Act 89 of 1991). The Contractor agrees to the adoption of the self invoicing procedures and undertakes not to issue any tax invoices, debit or credit notes in respect of any transaction included in the Tax Invoices issued by the Employer. The above clauses shall constitute a written agreement between the parties as required in terms of the Value Added Tax Act (Act 89 of 1991).'</p>			
	F..... V T	Item	
32			
Adjustment to the contract value (Clause 32).			
	F..... V T	Item	
33			
Recovery of expense and loss (Clause 33).			
	F..... V T	Item	
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Item No		Quantity	Rate	Amount
34	Final account and final payment (Clause 34). Clause 34.1 is amended as follows: F..... V T	Item		
35	Payment to other parties (Clause 35). F..... V T	Item		
<u>CANCELLATION</u>				
36	Cancellation by Employer - Contractor's default (Clause 36). F..... V T	Item		
37	Cancellation by Employer - Loss and damage (Clause 37). F..... V T	Item		
38	Cancellation by Contractor - Employer's default (Clause 38). F..... V T	Item		
39	Cancellation - Cessation of the works (Clause 39). F..... V T	Item		
<u>DISPUTE</u>				
40	Dispute Settlement (Clause 40)	Item		
<u>SUBSTITUTE PROVISIONS</u>				
41	State clauses (Clause 41). F..... V T	Item		
<u>CONTRACT VARIABLES</u>				
42	The Schedule: Pre-Tender information (Clause 42). F..... V T	Item		
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Item No	Quantity	Rate	Amount
<u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u>			
Employer: Development Bank of Southern Africa (DBSA) Postal Address: P O Box 1234 Halfway House 1685, South Africa Telephone: 011 313 3911 Facsimile: Physical address: 1258 Lever Rd, Headway Hill, Midrand 1685, Gauteng			
Principal Agent: Mabalengwe Engineers Postal Address: 34 Essex Terrace Westville, 3629 Telephone: 031 492 7151 Facsimile: 086 512 4154			
Agent's Service: Architect Agent (1): Postal Address: Telephone: Facsimile: Physical address:			
Agent's Service: Quantity Surveyor Agent (2): Postal Address: Telephone: Facsimile: Physical address:			
Agent's Service: Electrical Engineer Agent (3): Postal Address: Telephone: Facsimile: Physical address:			
Agent's Service: Mechanical Engineer Agent (3): Postal Address: Telephone: Facsimile: Physical address:			
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Item No		Quantity	Rate	Amount
	<p>Agent's Service: Structural and Civil Engineer Agent (4) : Postal Address: Telephone: Facsimile: Physical address:</p> <p><u>CONTRACT DETAILS (Clause 42.2)</u></p> <p><u>Clause 42.2.1</u> Works Description: - see brief description under the Notes to Tenderers</p> <p><u>Clause 42.2.2</u> Site Description: site, co-ordinates:</p> <p><u>Clause 42.2.3</u> Work or Installations by Others: Nil</p> <p><u>Clause 42.2.4</u> This Agreement is for a State Contract :- Yes</p> <p>Payment will be made for materials and goods:- Yes</p> <p>Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.</p> <p>Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A</p> <p><u>Clause 42.2.5</u> Date on which possession of the site is intended to be given on :-</p> <p>5 working days from the date of the letter of appointment to the Contractor.</p> <p><u>Clause 42.2.6</u> 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>			
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Item No	Quantity	Rate	Amount
<p>Clause 42.2.7</p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole :-</p> <p>TBA</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><u>INSURANCES</u></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 20% 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 : YES SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).</p> <p><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> <p><u>DOCUMENTS (Clause 41.4)</u></p> <p><u>Clause 42.4.1</u></p> <p>Waiver of the contractor's lien is required :- YES</p> <p><u>Clause 42.4.2</u></p> <p>Number of construction document copies to be supplied to the Contractor free of charge :- 3"</p>			
<p style="text-align: right;">Carried to Collection</p>			
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	<p><u>Clause 42.4.3</u> Specification drawn up in accordance with :- Standard System of Measuring Building Work - Seventh Edition including all amendments.</p> <p><u>Clause 42.4.4</u> Number of days for submission of priced documents : 15 days from the Letter of Appointment.</p> <p><u>Clause 42.4.5</u> JBCC Engineering General Conditions are to be included in the documents :- No</p> <p><u>Clause 42.4.6</u> The contract value is to be adjusted using CPAP:- YES Refer to Clause 32 of these Preliminaries for details.</p> <p><u>Clause 42.4.7</u> Details of changes made to the provisions of JBCC standard documentation: Note: The tenderer must study the modifications and amendments made to the relevant clauses in the Preliminaries section of the Bills of Quantities, under each clause heading. It should be noted that reference is made hereunder merely to draw the tenderers attention of clauses that have been amended or modified and the tenderer, when submitting his tender is deemed to have examined the relevant clauses for details of the amendments and modifications of the clauses in the Preliminaries: <u>Refer to relevant clauses for the full details of changes:</u> Clause 3 - Documents Clause 7 - Compliance with regulations Clause 9 - Indemnities Clause 18 - Setting out of the Works Clause 27 - Latent defects liability period Clause 31 - Interim Payment to the Contractor Clause 32 - Adjustment to the Contract Value Clause 34 - Final account and final Payment</p> <p><u>SECTION B: PRELIMINARIES</u></p>			
43	<p><u>DEFINITIONS AND INTERPRETATION (B1)</u></p> <p>F..... V T</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

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45	<p>Provisional Bills of Quantities (B2.2)</p> <p>Clause 2.2 is deemed to be deleted and replaced by the following:</p> <p>"Except where indicated otherwise, the quantities of and classes and kinds of works set out in these Bills of Quantities are provisional and do not purport to represent the final quantities of and classes and kinds of work eventually required to be done. The quantities of and classes and kinds of work contained herein have been set down solely in order to form a basis for obtaining competitive tenders.</p> <p>The Bills of Quantities are not to be used for ordering materials under any circumstances whether this be with regard to description or specification of materials or goods required, or with regard to quantities. Failure to comply with this condition is entirely at the Contractor's own risk. The Contractor shall be obliged upon instruction of the Principal Agent to execute such quantities of and classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agent's opinion, become expedient from time to time or which may be required to meet the Employer's requirements, whether or not such quantities of and classes or kinds of work may appear in these Bills of Quantities or the contract drawings.</p> <p>The consideration payable to the Contractor in respect of the works shall be determined by the Agent by the application of the rates contained in the priced Bill of Quantities to the quantities of and classes and kinds of work actually executed, which quantities of and classes and kinds of work shall be determined by the Agent. The rates contained in the priced Bills of Quantities shall apply irrespective of the final quantities of the different classes and kinds of work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the quantities of work set out in these Bills of Quantities and the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of works.</p> <p>Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by</p>			
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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. F..... V T	Item		
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	<u>THE SITE (B3)</u>			
50	Defined works area (B3.1) The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. The Tenderer shall ascertain any other restrictions to the area that may be occupied by the Contractor including any restrictions imposed by any buildings, etc. And any limitations or restrictions that may be imposed by any Authorities. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. Space on the pavement areas for the storage of building materials, etc., must be arranged with the Local Authorities by the Tenderer who will be responsible for all charges in connection therewith. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
	F..... V T	Item		
51	Geotechnical investigation (B3.2) Refer to Geotechnical Report annexed to the Bills of Quantities.			
	F..... V T	Item		
52	Inspection of the Site (B3.3) No claim for extras arising from the contractor having failed to comply with the clause will be entertained.			
	F..... V T	Item		
53	Existing premises occupied (B3.4) : NO			
	F..... V T	Item		
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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.			
	F..... V T	Item		
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Item No		Quantity	Rate	Amount
	SAMPLES AND SHOP DRAWINGS (B5)			
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		
	TEMPORARY WORKS AND PLANT (B6)			
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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Item No		Quantity	Rate	Amount
	<u>TEMPORARY SERVICES (B7)</u>			
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		
	<u>PRIME COST AMOUNTS (B8)</u>			
79	Responsibility for prime cost amounts (B8.1) F..... V T	Item		
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	<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>			
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		
	<u>FINANCIAL ASPECTS (B10)</u>			
83	Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT). 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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Item No		Quantity	Rate	Amount
	<u>SCHEDULE OF VARIABLES (B12)</u>			
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 (YES). 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 - N/A 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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	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
	<u>Section C: Specific Preliminaries:</u>			
97	C1. Proprietary branded products The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. F..... V T	Item		
98	C2. Trade Names, etc. 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	C3. Contractors responsibility The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved. F..... V T	Item		
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100	<p>C4. Overtime Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p> <p>F..... V T</p>	Item		
101	<p>C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p> <p>F..... V T</p>	Item		
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102	<p>C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor.</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>			
		Item		
103	<p>C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p> <p>F..... V T</p>			
		Item		
104	<p>C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p> <p>F..... V T</p>			
		Item		
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Item No		Quantity	Rate	Amount
105	<p>C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p> <p>F..... V T</p>	Item		
106	<p>C10. Method Statement The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p> <p>F..... V T</p>	Item		
107	<p>C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</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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Item No		Quantity	Rate	Amount
108	<p>C12. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> <p>F..... V T</p>			
109	<p>C13. Shop Drawings</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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Item No	Quantity	Rate	Amount
with any cost and/or time implications.			
Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instruction shall not constitute grounds for any claims for delay, extension of time and the like.			
(d) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agent's stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agent's approval.			
(e) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.			
(f) The Architects approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.			
(g) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Architect constitute a change to the scope of work, then he shall immediately advise the Architect in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Architects directive.			
(h) One additional copy of the final approved set of 'Shop drawings' is to be submitted to the Quantity Surveyors for purposes of valuation remeasurement.			
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Item No		Quantity	Rate	Amount
110	<p>C14. Commodities to be New</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>	Item		
111	<p>C15. Standard of Workmanship and Materials</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>	Item		
112	<p>C16. Making Good</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>	Item		
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Item No	Quantity	Rate	Amount
<p>115 C19. Overloading The Tenderer shall prior to submitting his tender determine from the Engineers any constraints and limitations in respect of Works to be executed, which have load limitations.</p> <p>The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing, erecting or executing work and shall comply with and pay for the Engineers requirements in connection with the provision of temporary support work, etc. Any damage caused by the Works by overloading shall be made good by the Contractor at his sole expense.</p> <p>Notwithstanding any approval given by the Principal Agent or Engineer, the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense.</p> <p>F..... V T</p>	Item		
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Item No		Quantity	Rate	Amount
116	<p>C20. Tender Sum to be Fully Inclusive</p> <p>The Tender Sum is deemed to be the fully inclusive price for the finished work described and is deemed to include inter alia for:</p> <ul style="list-style-type: none"> - The supply of all materials - Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet the stipulated programme dates. - All making, transport, conveying, cartage, carriage and delivery, etc. - Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings, fixing and building into positions, cutting and waste, templates, patterns and models. - Provision and maintenance of all plant, equipment, machines, trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc. - All applicable import taxes and duties. - Overheads and profit - All obligations arising out of The Bills of Quantities, and all costs and charges deemed necessary for complying with The terms and conditions herein. <p>All charges required by the Contractor in connection with Preliminary and General, site establishment and the like.</p> <div>F..... V T</div>			
117	<p>C21. Cost of Claims</p> <p>All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor.</p> <div>F..... V T</div>			
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Item No		Quantity	Rate	Amount
118	C22. Media Releases 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	C23. Guarantees and Maintenance Manuals 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		
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Item No	Quantity	Rate	Amount
the 'Notes to Tenderers' outlines at the beginning of this Specification may be priced under this item:			
1. Tenders, Tender Forms and Closing Date			
2. Fax Tenders			
3. Withdrawal of Tenders			
4. Acceptance of Tender			
5. Scope of Contract			
6. System of Measurement			
7. Documentation to be submitted with Tender			
8. Contract Price Adjustment Provisions			
9. Conditions pertaining to Targeted Procurement			
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'			
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Item No	Quantity	Rate	Amount
<u>SECTION No. 2</u>			
<u>BILL No. 1 : ALTERATIONS</u>			
<u>MODEL PREAMBLES</u>			
<p>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</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Existing Furniture, Equipment, etc</u>			
<p>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</p>			
<u>Damage to existing finishes</u>			
<p>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.</p> <p>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</p>			
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Item No		Quantity	Rate	Amount
	<p><u>Responsibility for site</u></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><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></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>			
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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>"Taking out and removing doors, windows, etc" 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>"Forming openings" 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>"Making good" 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>			
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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>"Breaking down and removing" 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>"Building up openings" 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><u>Removal of asbestos material</u></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>			
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	<p>Section No. 2 Alterations (Provisional) Bill No. 1 Alterations</p>			

Item No		Quantity	Rate	Amount
	<u>The following shall apply in respect of asbestos removal</u>			
	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			
	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			
	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			
	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			
	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			
	<u>TEMPORARY BARRIERS, SCREENS, ETC</u>			
	<u>Temporary barriers, screens, etc including removal and allow for re-use</u>			
1	SANS approved weld mesh type temporary barrier fencing 1,8m high with shade cloth fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing	m	124	
2	Double gate 3 x 1.8m high	No	1	
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Item No		Quantity	Rate	Amount
	<u>DEMOLISH</u>			
	<u>Demolish & remove existing</u>			
3	Single storey ablution building comprising blockwork under asbestos roof sheeting including the provision of a certificate of safe disposal for asbestos and filling in pits (desludging measured elsewhere), overall size 15m2 and approximately 2.5m high	No	2	
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Breaking up and removing reinforced concrete</u>			
4	150mm Thick apron	m2	786	
	<u>Taking out and removing timber doors, etc</u>			
5	Timber door frame for 0,9 x 2,1m high opening	No	9	
6	Metal door frame for 0,9 x 2,1m high opening	No	6	
7	Timber single door 813 x 2032mm high	No	14	
	<u>Breaking up and removing brickwork</u>			
8	M190 Blockwork in beamfill and small areas	m2	74	
	<u>Taking out and removing glass and mirrors, etc</u>			
9	Glass from steel windows including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	60	
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely</u>			
10	Asbestos roof sheeting including timber roof trusses, purlins, underlay, etc. and the provision of a certificate of safe disposal for asbestos	m2	1,253	
11	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	901	
12	Fascia boards and fixings	m	216	
13	Barge boards and fixings	m	108	
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Item No		Quantity	Rate	Amount
14	Rainwater gutters and fixings	m	239	
15	Rainwater downpipes and fixings	m	54	
16	Issue of certificate of compliance by registered AIA appointed by your asbestos disposal and removal subcontractor for the safe removal of asbestos contained products before any work on site commences (Please note : should no value be allowed against this item, it will be deemed to form part of the OHS costs in the Preliminaries)	Item		
	<u>Taking out and removing floor coverings, carpeting, etc</u>			
17	Vinyl tile floor covering including preparing screed for new vinyl floor tiles (elsewhere measured)	m2	55	
	<u>Clean down, etc</u>			
18	Clean existing steel window frames including burglar bars and service where necessary	m2	60	
19	Cleaning out damaged putty from existing steel windows and preparing for new putty and including new putty	m2	60	
	<u>Prepare existing surfaces for new finish</u>			
20	Clean down, etc. existing emulsion painted internal plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish	m2	2,071	
	<u>Taking out and removing ironmongery</u>			
21	Damaged chalkboard 2400 x 1140mm	No	28	
22	Damaged pinning board 2400 x 1140mm	No	28	
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>			
23	Average 30mm Screed from floors	m2	206	
24	Chipping of existing surface bed to create key for new screed	m2	206	
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Item No		Quantity	Rate	Amount
25	Plaster from walls in patches	m2	518	
	<u>Taking out and removing, setting aside or store for reuse</u>			
	<u>Refixing of items previously set aside</u>			
	<u>Disconnect, demolition and remove</u>			
	<u>STRUCTURAL REPAIRS</u>			
	<u>Repairs to structural cracks, etc</u>			
	<u>SERVICE</u>			
	<u>Steel Windows</u>			
26	Service window including lubricating ironmongery and leave in good workable condition	No	2	
	<u>SUNDRIES</u>			
	<u>Ablution Items</u>			
27	Clean out pit latrine by desludging including removal of all debris and waste including solid waste and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per toilet approximately 2KI in volume	No	2.00	
	<u>Temporary Accommodation</u>			
	<u>Provide temporary accommodation units (park homes) for Educational Facilities during construction in phases as herewith measured including levelling 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>			
28	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 Eight (8) calendar months	No	2	
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Item No			Quantity	Rate	Amount
29	Two tier steps for Eight (8) Calendar months	No	2		
30	Electrical Compliance Certificate	No	1		
31	Transportation and establishment on site and de-establishment on completion temporary accommodation units approximate size 7 x 7m wide	No	2		
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Item No		Quantity	Rate	Amount
	<p><u>SECTION No. 3 : 3 : NEW WORKS TO EXISTING STRUCTURES</u></p> <p><u>BILL No. 1 : EARTHWORKS</u></p> <p><u>MODEL PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Nature of material to be excavated:</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".</p> <p><u>Carting away of excavated material:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p> <p><u>Dewatering of excavations:</u></p> <p>The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 New Works to Existing Structures (Provisional) Bill No. 1 Earthworks (Provisional)</p>		R	

Item No		Quantity	Rate	Amount
	Density testing on filling:			
	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.			
	Imported fill:			
	"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"			
	<u>EXCAVATION OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Reduced levels under floors.	m3	118	
	<u>Extra over all excavations for carting away:</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	118	
	<u>EARTH FILLING, ETC.</u>			
	<u>Earth filling (G7 material) supplied by the contractor compacted to 95% Mod AASHTO density:</u>			
3	Under floors, steps, pavings, footings, etc.	m3	118	
	<u>Compaction of surfaces:</u>			
4	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	786	
	<u>Prescribed density tests on filling:</u>			
5	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	12	
	<u>SOIL POISONING</u>			
Carried to Collection			R	
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 1 Earthworks (Provisional)				

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BANGIBIZO PRIMARY SCHOOL

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Item No		Quantity	Rate	Amount
	<p><u>SECTION No. 3 : 3 : NEW WORKS TO EXISTING STRUCTURES</u></p> <p><u>BILL No. 2 : CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>MODEL PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary products in descriptions:</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Cost of tests:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> <p><u>Formwork:</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 New Works to Existing Structures (Provisional) Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

Item No		Quantity	Rate	Amount
	<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p><u>REINFORCED CONCRETE</u></p> <p><u>30MPa/20mm concrete:</u></p>			
1	Surface beds cast in panels on waterproofing.	m3	79	
	<p><u>TEST BLOCKS</u></p> <p><u>Test blocks:</u></p>			
2	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	9	
	<p><u>FINISHING TOP SURFACE OF CONCRETE</u></p> <p><u>Finishing top surfaces of concrete smooth with a wood float:</u></p>			
3	Surface beds, slabs, etc	m2	786	
	<p><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></p> <p><u>Rough Formwork to Sides:</u></p> <p><u>MOVEMENT JOINTS ETC</u></p> <p><u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u></p>			
4	12mm Joints not exceeding 300mm high	m	225	
	<p><u>Saw cut joints:</u></p> <p><u>REINFORCEMENT</u></p>			
	Carried to Collection			R
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 2			
	Concrete, Formwork and Reinforcement			

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Item No	Quantity	Rate	Amount
<p><u>SECTION No. 3 : 3 : NEW WORKS TO EXISTING STRUCTURES</u></p> <p><u>BILL No. 3 : MASONRY</u></p> <p><u>MODEL PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Bricks</u></p> <p>Clay & concrete bricks are to comply with N.H.B.R.C Part 2, Section 3</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.</p> <p><u>Pointing</u></p> <p>All pointing of exposed joints to be concave</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3 New Works to Existing Structures (Provisional) Bill No. 3 Masonry</p>			

Item No		Quantity	Rate	Amount
	<p><u>Samples</u></p> <p>Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site</p> <p><u>BLOCKWORK</u></p> <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 to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. 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>			
	Carried to Collection		R	
	<p>Section No. 3</p> <p>New Works to Existing Structures (Provisional)</p> <p>Bill No. 3</p> <p>Masonry</p>			

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
	<u>BILL No. 4 : WATERPROOFING</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u>			
1	Under surface beds.	m2	786	
	<u>JOINT SEALANTS ETC</u>			
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
2	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary	m	225	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 4			
	Waterproofing			

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
	<u>BILL No. 5 : ROOF COVERINGS</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Sheeting</u>			
	The roof sheeting shall be 0,55mm AZ150 White ZincAl or equal approved IBR 686 profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Z275 galvanized steel complying with ISQ 550 (3T). A certificate verifying compliance shall be issued by the manufacturer.			
	<u>Finish for AZ150 Zincalume</u>			
	The profile shall be supplied with a paint finish G550 consisting of a full top coat "Colourplus" or equal approved silicone modified polyester Colour: To match existing on one side and Cool Grey backing to other			
	<u>Assembly</u>			
	The AZ150 ZincAl sheets shall be fixed to every purlin strictly in accordance with manufacturer's specifications. Holes through sheeting are to be drilled and NO punching of holes are allowed. 8mm Diameter x 75mm long fixing screws with 19mm diameter washer and rubber gasket are to be used. Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced			
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 5 Roof Coverings			

Item No		Quantity	Rate	Amount
	<p><u>Flashings</u></p> <p>Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side</p> <p><u>Quality Assurance</u></p> <p>The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System</p> <p><u>Guarantee</u></p> <p>AZ150 ZincAl 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><u>Safety</u></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 style="text-align: right;">Carried to Collection</p> <p>Section No. 3 New Works to Existing Structures (Provisional) Bill No. 5 Roof Coverings</p>		R	

Item No		Quantity	Rate	Amount
	<p><u>Handling and Storage</u></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><u>Inspection Prior to Installation or Erection</u></p> <p>Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:</p> <p>a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted</p> <p>b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances</p> <p>c. The corners of the roof are square and the wall framework is perpendicular or as specified</p> <p>d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework</p> <p>e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square</p> <p>f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided</p> <p>g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding</p>			
	Carried to Collection		R	
	<p>Section No. 3</p> <p>New Works to Existing Structures (Provisional)</p> <p>Bill No. 5</p> <p>Roof Coverings</p>			

Item No	Quantity	Rate	Amount
<u>Protrusion through Sheeted Surfaces</u>			
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			
<u>Cleaning of Roofs, etc</u>			
All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
<u>Chromadek (10.5) corrugated 0,8mm thick ISOQ230, Z275 spelter galvanised steel roof sheeting with chromadek finish to one side and protective primer coating on reverse side, colour to be dove grey, fixed to timber purlins (elsewhere measured), all in accordance with manufacturer's recommendations and specifications:</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	1,253
<u>0.8mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u>			
2	Ridge covering 550mm girth, screwed through sheet to purlins	m	108
3	Standard narrow and broad flute closers.	m	216
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 5 Roof Coverings			

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
	<u>BILL No. 6 : CARPENTRY & JOINERY</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>ROOFS ETC</u>			
	<u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u>			
	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			
	<u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u>			
	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			
	<u>TIMBER</u>			
	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			
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 Carpentry and Joinery			

Item No	Quantity	Rate	Amount
<u>METAL CONNECTOR PLATES</u>			
Metal truss connector plates shall be made from galvanised steel of at least 1mm nominal thickness, with a minimum yield strength of 250MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be 0,275Kg/m2 commercial class hot dipped galvanising			
The connector plates shall have been tested by the CSIR and be a size capable of transmitting the forces between the members of a truss without exceeding the design values given in the CSIR report			
<u>BOLTS</u>			
Bolts shall be to BS 4190 or SANS 135 with appropriate washers. (See below)			
<u>WASHERS</u>			
Square or round washers of the following minimum dimensions shall be used with all bolts:			
WASHER DIMENSIONS			
Bolts Size	Width (mm)	Thickness	
up to M8	25	2,5	
up to M12	36	4,0	
up to M20	60	5,0	
<u>SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS</u>			
These shall be as specified in BS 1579 and installed in accordance with the CSIR Publication : HOUT 468, "The Design, Manufacture and Erection of Timber Trusses".			
<u>NAILS</u>			
These shall be in accordance with SANS 820 : 1974			
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 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"> * Details of the roof system with the positions of all trusses and beams clearly indicated * Bracing details * All truss details, including valley trusses where applicable, with the following clearly detailed:- <ul style="list-style-type: none"> - All member sizes and grades - Connector plate sizes for all truss joints. Code numbers are deemed sufficient * All connection and hold down details between trusses, girders, beams and supports * The type of roof covering, ceiling and any other loads taken into account in the design 			
	Carried to Collection		R	
	<p>Section No. 3</p> <p>New Works to Existing Structures (Provisional)</p> <p>Bill No. 6</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"> * Roof Cover: 0,55mm Metal roof sheeting * Max Purlin centres: 900mm * Ceilings: Fibre-cement ceilings * Overhang: Min 600mm 			
	Carried to Collection		R	
	<p>Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 Carpentry and Joinery</p>			

Item No		Quantity	Rate	Amount
	<u>TRUSSES</u>			
	a. All the roof trusses to be at average 1 177mm 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			
	Carried to Collection		R	
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 6			
	Carpentry and Joinery			

Item No		Quantity	Rate	Amount
<u>Plate nailed pitched timber roof construction</u>				
1	Double pitch truss (type 5) 4 x 1m high overall with 600mm eaves overhang on both sides	No	16	
2	Double pitch truss (type 4) 8 x 2m high overall with 600mm eaves overhang on both sides	No	16	
3	Double pitch truss (type 2) 9 x 2m high overall with 600mm eaves overhang on both sides	No	47	
4	Double pitch truss (type 1) 10 x 2m high overall with 600mm eaves overhang on both sides	No	16	
5	Double pitch truss (type 3) 12 x 2m high overall with 600mm eaves overhang on both sides	No	44	
6	Prior to the erection of all the roof trusses the consulting engineer shall certify that he has received such working drawings and construction detail designs from the professional engineer employed by the contractor and that he has considered same and given permission to proceed with the fabrication of the trusses (TR1 certificate issued by Contractor's Engineer) and then before the roof covering commences the completed structure shall be inspected and certified as stable by the professional engineer employed by the contractor to ensure that the manufacture of the trusses and erection details have been complied with to his satisfaction (TR2 certificate issued by Contractor's Engineer)			
			Item	
<u>Sawn Softwood</u>				
7	38 x 76mm Wall plate.	m	249	
8	38 x 114mm Longitudinal bracing (Provisional).	m	652	
9	38 x 114mm Cross bracing (Provisional).	m	294	
10	76 x 76mm Purlins	m	1,956	
<u>Laminated S. A. pine:</u>				
11	75 x 228mm beam.	m	77	
<u>EAVES, VERGES, ETC</u>				
Carried to Collection				
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 6 Carpentry and Joinery				

Item No		Quantity	Rate	Amount
	<u>"Everite Nutec" or equal approved fibre cement</u>			
12	12 x 225mm Fascias to match existing including H-profile jointing strips	m	246	
13	12 x 80 x 225mm Moulded barge board screwed to 44 x 70mm treated SA Pine trimmer and including H-profile jointing strips	m	125	
	<u>DOORS ETC</u>			
	<u>Solid core flush panel door with approved hardwood veneer to both sides of door and two hardwood edge strips:</u>			
14	2032 x 813 x 40mm Solid flush panel door with approved hardwood veneer both sides and two hardwood edge strips	No	12	
	<u>SANS approved meranti:</u>			
15	40mm Framed ledged and braced batten door 813 x 2032mm high with 40 x 110mm styles and top rail, 20 x 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces filled in with V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint.	No	2	
	<u>FRAMED FRAMES ETC</u>			
	<u>Wrought Meranti</u>			
16	50 x 114mm Rebated frames plugged	m	75	
	<u>SKIRTINGS</u>			
	<u>Wrought meranti:</u>			
17	19 x 76mm Skirting fixed to walls including 19mm quadrant bead planted on.	m	503	
	Carried to Collection			R
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 6			
	Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
	<u>BILL No. 7 : CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions:</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	<u>Trade Names</u>			
	Where trade names are specified equal materials approved by the Principal Agent may be used			
	<u>NAILED UP CEILINGS</u>			
	<u>4.6mm "Everite Nutec" or equal similar Architect approved fibre-cement boards with H-type pressed steel jointing strips</u>			
1	Ceilings including 38 x 50mm sawn softwood branderling at 400mm centres	m2	901	
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	22	
	Carried to Collection			R
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 7			
	Ceilings, Partitions and Access Flooring			

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Item No		Quantity	Rate	Amount
	<u>Cornice</u>			
3	Everite Nucornice Nu-Cornice Plain 75 or equal Architect 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	514	
	<u>100mm thick non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer's recommendations.</u> • <u>R-value: 2,50m² K/W</u> • <u>Thermal conductivity: 0,04 W/m²/K</u>			
4	100mm Insulation laid between roof trusses and on top of brandering, etc.	m2	901	
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 7 Ceilings, Partitions and Access Flooring				

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
	<u>BILL No. 8 : FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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.			
	<u>VINYL FLOOR COVERINGS</u>			
	<u>3mm thick x 300mm x 300mm wide Floorflex semi-flexible vinyl floor tiles laid in Marley No.60 Plus acrylic adhesive, or similar 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>			
1	On floors	m2	901	
	<u>POLISH, SEALERS, ETC</u>			
	<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>			
2	Vinyl tile flooring	m2	901	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 8			
	Floor Coverings, Wall Linings, Etc.			

Item No	Quantity	Rate	Amount
<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
<u>BILL No. 9 : IRONMONGERY</u>			
<u>MODEL PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Keys/Locks</u>			
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			
<u>Trade Names</u>			
Where trade names are specified other ironmongery approved by the Principal Agent may be used			
<u>Fixing</u>			
Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
<u>IRONMONGERY</u>			
<u>HINGES, BOLTS, ETC</u>			
<u>"Union" or equal approved</u>			
1	75 x 102mm Stainless steel hinge	No 36	
2	Indicator bolt CZ80491 with chromium plated finish	No 4	
3	150mm Stainless steel cabin hook	No 12	
Carried to Collection			R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 9 Ironmongery			

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Item No		Quantity	Rate	Amount
	<u>LOCKS</u>			
	<u>"Union" or equal approved</u>			
4	"Gower" three lever mortice lockset and furniture to external door	No 12		
	<u>HANDLES</u>			
	<u>"Union" or equal approved</u>			
5	"AL5515-111 BBAS Dove" Set of two 111mm pull handles fixed back to back	No 4		
	<u>WINDOW FITTINGS</u>			
	<u>"Bildware" or equal approved</u>			
	<u>SUNDRIES</u>			
	<u>"Solid" or equal approved</u>			
6	38mm Diameter rubber floor/wall mounted door stop	No 12		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>			
7	Pinning board 2400 x 1200mm High overall of 10mm "Van Dyk" or equal approved pinning board glued to 3mm masonite back plugged and screwed to wall and framed with 45 x 19mm laminated timber surround with one vertical middle rail.	No 28		
8	Chalkboard size 2400 x 1140mm high complete with aluminium chalkrail, "Vitrex System 100" vitreous enamelled magnetic green.	No 28		
Carried to Collection				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 9 Ironmongery				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u></p> <p><u>BILL No. 10 : METALWORK</u></p> <p><u>MODEL PREAMBLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent</p> <p><u>METALWORK</u></p> <p><u>HOT DIP GALVANIZED STEEL WINDOWS, DOORS, ETC</u></p> <p><u>C Type Residential Windows</u></p> <p><u>Standard Industrial Windows</u></p> <p><u>GALVANIZED PRESSED STEEL DOOR FRAMES</u></p> <p><u>1,2mm thick galvanised pressed steel jamb lining with double rebate, base ties, 1,5 pairs 102mm steel butt hinges, adjustable CP striking plate, rubber buffers and fixing lugs. to suit M190 block wall:</u></p>			
1	<p>Frame for door 813 x 2032mm high.</p> <p><u>HOT DIP GALVANIZED STEEL GATES</u></p> <p><u>Note: The contractor is to check on site measurements before placing of order.</u></p>	No	6	
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 New Works to Existing Structures (Provisional) Bill No. 10 Metalwork</p>		R	

Item No		Quantity	Rate	Amount
	<p><u>Security Gate formed of 40 x 60 x 3mm rectangular tubing with 19mm diameter steel rods at 110mm centre and 40 x 6mm horizontal support flatbars fixed with hinges to steel frame of 45 x 45 x 3mm rectangular tubing fixed to walls with bolts and lugs including padlock plate:</u></p>			
2	Security Gate size 900 x 2125mm high	No	17	
	<p><u>GALVANIZED STEEL BURGLAR BARS</u></p> <p><u>4,7mm x 19mm galvanised mild steel burglar bars welded to window frame over both opening and fixed sections of window horizontally</u></p>			
	Carried to Collection		R	
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 10 Metalwork			

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
	<u>BILL No. 11 : PLASTERING</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SCREEDS</u>			
	<u>1:3 Cement and sand screeds steel trowelled on concrete:</u>			
1	30mm thick on floors.	m2	992	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete:</u>			
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster trowelled smooth on blockwork</u>			
2	On walls in small areas	m2	259	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster trowelled smooth on blockwork</u>			
3	On walls in small areas	m2	259	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 11 Plastering			R

Item No			Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>				
	<u>BILL No. 12 : PLUMBING AND DRAINAGE</u>				
	<u>MODEL PREAMBLES</u>				
	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				
	<u>RAINWATER DISPOSAL</u>				
	<u>Seamless aluminium</u>				
1	100 x 75 aluminium ogee gutter with baked enamel finish fixed with concealed brackets	m	256		
2	Extra over eaves gutter for stopped end	No	37		
3	Extra over eaves gutter for outlet for 75 x 50mm PVC downpipe	No	46		
	<u>uPVC pipes</u>				
4	75 x 50mm PVC downpipe fixed to wall with straps at 1500mm centres using nail plugs, with pvc downpipes riveted and silicone sealed to gutter outlets	m	124		
5	Extra over rainwater downpipe for bends	No	46		
6	Extra over rainwater downpipe for shoes	No	46		
	<u>Brackets</u>				
7	Galvanised gutter bracket comprising of 3mm Thick x 20mm wide mild steel flat bar twice bent 240mm girth twice bolted with stainless steel M10 screws to timber truss	No	184		
	<u>SANITARY PLUMBING</u>				
Carried to Collection					R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 12 Plumbing and Drainage					

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Item No		Quantity	Rate	Amount
<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>				
<u>BILL No. 13 : GLAZING</u>				
<u>MODEL PREAMBLES</u>				
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				
<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>6,00mm Toughened clear safety glass secured into galvanized window with a compatible UV resistant sealant</u>				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	60	
2	Issue of Glazing Certificate.		Item	
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>				
<u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:</u>				
Carried Forward to Summary of Section No. 3				R
Section No. 3 New Works to Existing Structures (Provisional) Bill No. 13 Glazing				

Item No		Quantity	Rate	Amount
	<u>SECTION No. 3 : NEW WORKS TO EXISTING STRUCTURES</u>			
	<u>BILL No. 14 : PAINTWORK</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Trade Names</u>			
	Where trade names are specified it will read "or equal approved"			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare surfaces and remove all loose material, apply one coat 'Plascon Wall and All Pure Acrylic' thinned 20% and one coat 'Plascon Wall and All Pure Acrylic' paint or equal Architect approved:</u>			
1	On internal walls	m2	1,353	
	<u>Prepare surfaces and remove all loose material, apply one 'Merit Plaster Primer' and two coats 'Plascon Double Velvet Pure Acrylic' paint or equal Architect approved</u>			
2	On external walls	m2	718	
	<u>ON PLASTER BOARD</u>			
	<u>Prepare, brush surface to remove all loose contaminants and apply one coat "Timesaver" or equal approved alkali resistant primer, and two coats "Plascon Polvin" or equal approved super acrylic PVA Colour: White</u>			
3	On ceilings and cornices	m2	901	
	Carried to Collection			R
	Section No. 3 New Works to Existing Structures (Provisional) Bill No. 14 Paintwork			

Item No		Quantity	Rate	Amount
	<u>ON FIBRE CEMENT</u>			
	<u>Prepare and brush surface to remove loose contaminants and apply one coat professional gypsum & plaster primer PP700, and two coats "Plascon Wall 'n All (WAA)" or equal approved emulsion paint</u>			
4	On fascias and barge boards	m2	85	
	<u>ON WOOD</u>			
	<u>Prepare and apply two coats wood primer</u>			
	<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>			
5	On roof timbers at eaves and verges	m2	66	
	<u>Prepare, brush surface to remove all loose contaminants, stain and apply one coat "Plascon Woodcare Pretreatment (WWP 1)" or equal approved, and three coats "Woodcare Wood Preservative (FPR1)" or equal approved preservative strictly in accordance with the Manufacturer's instructions</u>			
6	On doors	m2	145	
7	On door frames	m2	23	
	<u>ON METAL</u>			
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat galvanized iron primer, one universal undercoat and two coats super enamel paint</u>			
8	On door frames	m2	9	
	<u>Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat metal primer and finish with two coats superior quality gloss enamel on:</u>			
9	Windows with burglar bars (both sides measured).	m2	149	
	Carried to Collection			
	Section No. 3			
	New Works to Existing Structures (Provisional)			
	Bill No. 14			
	Paintwork			

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ASBESTOS REPLACEMENT PROGRAMME
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Item No		Quantity	Rate	Amount
	<u>Clean entire surface with Sugar soap using bristle brooms or brushes or scotch pads to remove all surface contaminants, rinse with tap water and allow to dry, remove loose and flaky paint and sand surface to a firm edge, feather edges and dust off, emery paper any rust areas to bright metal and remove dust, spot prime bare areas with red oxide primer, allow one hour to dry and prepare and apply two coats pure acrylic roof paint on:</u>			
10	Corrugated iron roof sheeting	m2	68	
	<u>Prepare surfaces and remove all loose material, dust, grease, salts and contamination with a degreaser, rinse and apply one coat Calcium Plumbate Primer, one coat Universal Undercoat and two coats High Gloss Enamel paint on galvanised steel:</u>			
11	Exterior gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	112	
Carried to Collection				R
Section No. 3				
New Works to Existing Structures (Provisional)				
Bill No. 14				
Paintwork				

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 5 : EXTERNAL WORKS</u>			
	<u>BILL No. 1 : GENERAL SITE WORKS</u>			
	<u>MODEL PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Excavations:</u>			
	No claim for soft or hard rock excavations will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling			
	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>Nature of material to be excavated:</u>			
	The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".			
	<u>Keeping excavations free of water:</u>			
	No water shall be allowed to stand in any part of the excavations. The excavations shall be protected from flooding and water in the excavations, whether as a result of flooding, rain or other causes and shall immediately be removed.			
	The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water			
	Carried to Collection		R	
	Section No. 4			
	External Works (Provisional)			
	Bill No. 1			
	General Site Works			

Item No		Quantity	Rate	Amount
	<p><u>Carting away of excavated material:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p> <p><u>Density testing on filling:</u></p> <p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.</p> <p><u>Filling and layer work materials:</u></p> <p>References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>GENERAL SITE WORKS</u></p> <p><u>SITE CLEARANCE ETC</u></p> <p><u>Site clearance</u></p> <p>1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc</p> <p><u>BULK EXCAVATION, FILLING, ETC</u></p> <p><u>Digging up topsoil</u></p> <p>2 Stripping average 100mm thick layer of top soil and stockpiling on site</p>	m2	76	
		m2	76	
	Carried to Collection			R
	<p>Section No. 4</p> <p>External Works (Provisional)</p> <p>Bill No. 1</p> <p>General Site Works</p>			

Item No		Quantity	Rate	Amount
	<u>CONCRETE WALKWAYS</u>			
	<u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Reduced levels under floors.	m3	12	
	<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	12	
	<u>Compaction of surfaces.</u>			
5	Compaction of ground surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material from excavated material where necessary and compacting to 95% Mod AASHTO density.	m2	76	
	<u>Earth filling supplied by the Contractor:</u>			
6	G5 Natural subbase material, compacted to 98% Mod AASHTO density	m3	12	
	<u>Prescribed density tests on filling</u>			
7	Modified AASHTO Density test.	No	4	
	<u>Reinforced concrete cast against excavated surfaces</u>			
	<u>30Mpa/19mm Concrete</u>			
8	Walkways cast in panels	m3	12	
9	Ramps	m3	1	
	<u>Finishing top surfaces of concrete smooth with a wood trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>			
10	Walkways to falls	m2	76	
	Carried to Collection			R
	Section No. 4			
	External Works (Provisional)			
	Bill No. 1			
	General Site Works			

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Item No		Quantity	Rate	Amount
	<u>Mesh Fabric reinforcement:</u>			
11	Type ref. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	76	
	<u>Test Blocks</u>			
12	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	3	
	<u>Movement Joints, Etc</u>			
13	10mm Bitumen impregnated fibre board built in vertically between concrete and brick walls	m	43	
	<u>Polyurethane sealing compound including backing cord, bond breaker, primer, etc</u>			
14	In 10 x 10mm expansion joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	43	
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>			
15	Kerb (SANS 927 fig 12) 75 x 150mm high with 150 x 150 x 230mm unreinforced concrete haunching at back of each joint, including excavation, concrete and mortar beddings, backfilling, etc	m	102	
Carried to Collection				
				R
Section No. 4				
External Works (Provisional)				
Bill No. 1				
General Site Works				

Item No		Quantity	Rate	Amount
<u>STORMWATER CHANNELS</u>				
<u>Cast in-situ Ref 617 mesh reinforced concrete (30MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>				
16	1000 x 150mm V' channel 75mm deep in centre laid in position in ground in 1800mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating etc.	m	274	
17	Extra for 700mm angle	No	4	
18	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 reno mattress including 150 - 200mm diameter loose stones - Ref engineer's drawing.	No	2	
Carried to Collection				R
Section No. 4 External Works (Provisional) Bill No. 1 General Site Works				

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Item No	Quantity	Rate	Amount
<u>SECTION No. 5 : EXTERNAL WORKS</u>			
<u>BILL No. 2 : RAINWATER TANKS AND STANDS</u>			
<u>MODEL PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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.			
<u>EARTHWORKS</u>			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches. m3	9	
<u>Extra over trench and hole excavations in earth for excavation:</u>			
2	Soft rock. m3	0.5	
3	Hard rock. m3	0.2	
<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor. m3	5	
Carried to Collection			R
Section No. 4 External Works (Provisional) Bill No. 2 Rainwater Tanks and Stands			

Item No		Quantity	Rate	Amount
	<u>Risk of collapse of excavations:</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	28	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
6	Backfilling to trenches, holes, etc.	m3	3	
	<u>Earth filling supplied by the Contractor compacted to 95% MOD AASHTO:</u>			
7	Under floors, steps, pavings, etc.	m3	8	
	<u>Compaction of surfaces</u>			
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	15	
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25Mpa/19mm Concrete</u>			
9	Strip footings.	m3	3	
	<u>REINFORCED CONCRETE</u>			
	<u>25 MPa/19mm Concrete:</u>			
10	Tank concrete slab.	m3	3	
Carried to Collection				R
Section No. 4				
External Works (Provisional)				
Bill No. 2				
Rainwater Tanks and Stands				

Item No		Quantity	Rate	Amount
	<u>FINISHING TOP SURFACE OF CONCRETE</u>			
	<u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>			
11	Surface beds, slabs, etc.	m2	20	
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
	<u>Rough Formwork to Sides:</u>			
12	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	31	
	<u>REINFORCEMENT</u>			
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>			
13	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	20	
	<u>MASONRY</u>			
	<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
14	One brick walls.	m2	9	
	<u>BRICKWORK IN SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u>			
15	One brick walls.	m2	16	
	<u>BRICKWORK AND BLOCKWORK SUNDRIES</u>			
	<u>Brickwork reinforcement:</u>			
16	230mm Wide reinforcement built in horizontally.	m	59	
	Carried to Collection			
	Section No. 4			
	External Works (Provisional)			
	Bill No. 2			
	Rainwater Tanks and Stands			

Item No			Quantity	Rate	Amount
17	Ditto, but in foundations.	m	35		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Firelight Travertine Imperial FBX" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2:</u>				
18	Extra over brickwork for face brickwork externally.	m2	15		
	<u>PLUMBING AND DRAINAGE</u>				
	<u>TANKS ETC</u>				
	<u>Jojo or equal approved Plastic water tanks etc:</u>				
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	3		
20	Hole to top of tank for 100 x 75mm rainwater downpipe.	No	3		
Carried to Collection					R
Section No. 4					
External Works (Provisional)					
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Section No. 4

External Works (Provisional)

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Rainwater Tanks and Stands

COLLECTION

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Section No. 4

External Works (Provisional)

Bill No. 2

Rainwater Tanks and Stands

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 5 : ELECTRICAL INSTALLATION (PROVISIONAL)</u>			
	<u>BILL No. 1</u>			
	<u>LIGHTING, SMALL AND MAIN POWER</u>			
1	CONDUIT			
	Supply and install PVC conduit and accessories including, adaptors, couplings jointing, saddles cutting, bending, fixing and waste in concrete, ceiling, surface on walls or brickwork. All conduit work to be chased on to the wall surface.			
	20mm diameter	m	2,130	
	<u>Note: Drilling of structure is not permitted without the prior approval of the Engineer. Any drilling of the structure without the approval of the Engineer will result in the cost of all necessary remedial work and / or replacement of structural members to be charged to the contractor's account. The above also applies to HILTI ' shot type fixings.</u>			
	<u>CONDUIT BOXES</u>			
	<u>Supply and install conduit boxes for 20mm conduit with 1, 2, 3 or 4 way side entries, and or back entry including conduit connection. Allowance to be made for chasing of boxes on the wall surface.</u>			
2	ROUND BOXES 60mm PVC.	No	87	
	<u>PVC WIRING CONDUCTORS</u>			
	<u>Supply and install PVC insulated copper conductors as specified drawn into conduit.</u>			
3	1.5mm ² (red)	m	1,950	
4	1.5mm ² (black)	m	1,950	
5	2.5mm ² (green)	m	1,950	
	Carried to Collection			R
	Section No. 5 Electrical Installation (Provisional) Bill No. 1 Electrical Installation (Provisional)			

Item No		Quantity	Rate	Amount
	<u>LIGHT SWITCHES - Crabtree Classic Range</u> <u>Supply and install 240 Volt flush mounted light switch complete with PVC cover plate and all fixings. Price to include for engraving on cover plate and conduit boxes</u>			
6	16 Amp 1 Lever 1 way.	No	30	
7	16 Amp 1 Lever 2 way.	No	2	
	<u>LIGHT FITTINGS</u> <u>The supply, installation and termination of luminaries as indicated on the drawings and specification. All fittings shall be as indicated in the luminaries schedule. All fluorescent shall have cool white lamps.</u>			
	<u>NOTE : All ceiling flush mounted fittings to have a 5 A SSO for supply connection.</u>			
8	Type "b" (2 x 18 W T8 LED)	No	10	
9	Type "f" (2 x 24 W T8 LED)	No	63	
10	Type "e" (1 x 20 W LED bulkhead luminaire)	No	46	
11	Type "c" (2 x 18 T8 LED vapour proof)	No	12	
	<u>Small Power Requirements</u> <u>Supply, install, connect, test and commission the complete small power installation as described in the specification and as described below.</u>			
	<u>CONDUIT</u> <u>Flush mounted PVC conduit chased to walls. The price is to include for cutting, bending, setting, joining, and any other materials necessary for the successful completion of the installation.</u>			
12	20 mm DIA PVC conduit	m	1,320	
Carried to Collection				R
Section No. 5 Electrical Installation (Provisional) Bill No. 1 Electrical Installation (Provisional)				

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Item No			Quantity	Rate	Amount
	<p><u>Note: Drilling of structure is not permitted without the prior approval of the Engineer. Any drilling of the structure without the approval of the Engineer will result in the cost of all necessary remedial work and / or replacement of structural members to be charged to the contractor's account. The above also applies to HILTI ' shot type fixings.</u></p> <p><u>Supply and installation of PVC copper conductors as specified drawn into conduit.</u></p>				
13	2.5 mm2 (red)	m	1,290		
14	2.5 mm2 (black)	m	1,290		
15	4 mm2 (green)	m	1,290		
	<p><u>CONDUIT BOXES</u> <u>Supply and install conduit boxes for 20mm conduit with 1, 2, 3 or 4 way side entries, and or back entry including conduit connection. Allowance to be made for chasing of boxes on the wall surface.</u></p>				
16	ROUND BOXES 60mm PVC.	No	60		
	<p><u>METAL POWER SKIRTING</u> <u>Supply and install 2-compartment power skirting complete with accessories and all fixings, as per specification and detailed on drawings.</u></p>				
17	2-compartment metal power skirting	m	40		
	<p><u>POWER SKIRTING OUTLETS AS CRABTREE CLASSIC RANGE</u></p>				
18	Supply, install and connect power skirting 16 A white euro combo switched socket complete with accessories as per specification.	No	8		
19	Supply and install power skirting punched coverplate complete with Cat.5 flush mounted RJ45 data outlets as per specification.	No	6		
Carried to Collection					R
Section No. 5 Electrical Installation (Provisional) Bill No. 1 Electrical Installation (Provisional)					

Item No		Quantity	Rate	Amount
	<u>SWITCHED SOCKET OUTLETS - EURO TYPE</u> <u>(CRABTREE CLASSIC RANGE)</u> <u>Supply and install 16 Amp 240 volt flush mounted euro switch socket outlets complete with all fixings in conduit box as well as the socket outlet box and cover.</u>			
20	Single Euro, 16 Amp, 3-pin, flush mounted combo outlet	No	28	
21	Double, 16 Amp, 3-pin, flush mounted outlet	No	2	
	<u>Main Power Requirements</u>			
	<u>DISTRIBUTION BOARDS</u> <u>Allow for the supply and installation of brNokers, isolators and North INokage devices on the existing main distribution board located inside the main LV room. Installation shall include all fixings, Northing and conduit terminations as per the specification and drawings.</u>			
	<u>NOTE: LV DB shall include lightning protection and surge suppression equipment and shall be sized accordingly.</u>			
22	DB-MAIN	No	1	
23	DB-2CLASS 1	No	1	
24	DB-2CLASS 2	No	1	
25	DB-KITCHEN	No	1	
26	DB-4CLASS	No	1	
	<u>PHOTOCELL</u>			
	<u>Supply and install photo electric devices complete with accessories.</u>			
27	Photocell	No	10	
28	EARTHING AND BONDING Install general Northing and bonding for metal structures, distribution boards, etc., in accordance with the drawings and specifications	No	5	
	Carried to Collection			R
	Section No. 5			
	Electrical Installation (Provisional)			
	Bill No. 1			
	Electrical Installation (Provisional)			

Item No		Quantity	Rate	Amount
29	TESTING AND COMMISSIONING Conduct testing and commissioning of the electrical installation in accordance with the drawings and specifications.	No	5	
	<u>MAIN LV RETICULATION</u>			
	<u>ELECTRICAL CABLES (ECC TYPE Cables)</u>			
	<u>Supply and install the following cables running in ground, trays, between LV distribution board, the meter boxes and the sub distribution boards.</u>			
30	6 mm ² 2C PVC/SWA/ECC/Cu	m	100	
31	10 mm ² 2C PVC/SWA/ECC/Cu	m	200	
32	16 mm ² 2C PVC/SWA/ECC/Cu	m	250	
	<u>SLEEVES</u>			
33	Supply and install below in deviated sleeves and accessories. Sleeves to be buried in the ground where the street lighting cabling crosses road surfaces. 110 mm diameter	m	110	
34	50 mm diameter	m	50	
	<u>CABLE TERMINATIONS</u>			
	<u>Supply and install cable terminations complete with gland, lugs and other accessories.</u>			
35	6 mm ² 2C	No	4	
36	10 mm ² 2C	No	4	
	<u>TRENCHING</u>			
	<u>Allow for the trenching and installation of cable sleeves for running electrical cables between the main DB and sub distribution boards</u>			
37	Trenching	m	120	
	Carried to Collection		R	
	Section No. 5 Electrical Installation (Provisional) Bill No. 1 Electrical Installation (Provisional)			

Item No		Quantity	Rate	Amount
	<u>ELECTRICAL MANHOLES</u>			
38	Allow for the construction of electrical manholes by building contractor complete with stainless steel covers as per specification and drawings	No 4		
	<u>CABLE MARKINGS</u>			
39	Supply and install concrete cable markers with aluminium inlays to indicate direction of cable runs	No 6		
	<u>DISMANTLING AND REMOVAL OF REDUNDANT ELECTRICAL EQUIPMENT</u>			
40	Allow for the removal and safe disposal of redundant electrical infrastructure as directed by the engineer.	Item		
	<u>LIGHTNING PROTECTION SYSTEM</u>			
	<u>LIGHTNING PROTECTION SYSTEM</u>			
41	Supply and installation of external lightning protection equipment required in the selected blocks complete with components and accessories as specified in drawings.	Item		
	<u>TESTING AND COMMISSIONING</u>			
42	Testing and commissioning the lightning protection installation in accordance with the drawings and Specification. The testing and issuing of SABS Compliant. Test Certificate to be done by Registered SABS Specialist Contractor.	Item		
Carried to Collection				R
Section No. 5 Electrical Installation (Provisional) Bill No. 1 Electrical Installation (Provisional)				

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Item No		Quantity	Rate	Amount
	<u>SECTION No. 6</u>			
	<u>BILL No. 1 : PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
	<u>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>			
	<u>COMMUNITY LIAISON OFFICER</u>			
1	Provide the sum of R100000.00 (Eighty Thousand Rand) 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
2	Allow for general attendance	%		
3	Allow for profit	%		
4	Provide the sum of R 200 000.00 (Two Hundred Thousand Rand) for the appointment of an Approved Asbestos Inspection Authority	Item		200,000.00
5	Allow for general attendance	%		
6	Allow for profit	%		
	Carried to Collection		R	
	Section No. 6			
	Provisional Sums			
	Bill No. 1			
	Provisional Sums			

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Item No		Quantity	Rate	Amount
7	Provide the sum of R 300 000.00 (Three Hundred Thousand Rand) for the rental of temporary ablution facilities including regular servicing for the duration of the contract	Item		300,000.00
8	Allow for general attendance	%		
9	Allow for profit	%		
Carried to Collection				R
Section No. 6 Provisional Sums Bill No. 1 Provisional Sums				

Item No			Quantity	Rate	Amount R
	CPG Bill of Quantities:				
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.				
	MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS				
	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R12 730,43	R12 730,43
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS				
	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R12 730,43	R12 730,43
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation	%			
				R	
	Carried Forward to Summary of Section No.				
	SECTION NO.6 - PROVISIONAL SUMS				
	Bill No. 1				
	Provisional Sums				

Item No			Quantity	Rate	Amount R
	MINIMUM TARGETED ENTERPRISE DEVELOPMENT				
	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	1	R127 304,28	R127 304,28
	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	LABOUR INTENSIVE PARTICIPATION GOAL				
	Labour Intensive Participation Goal - Allowance for monthly reporting of labour intensive works by main contractor based on determination by Employer taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R72 000,00	R72 000,00
	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	Carried to Collection			R	
	SECTION NO.6 – ASBESTOS REPLACEMENT				
	Bill No. 1				
	Provisional Sums				

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