

Item No		Quantity	Rate	Amount
	<p><u>SECTION 1</u></p> <p><u>BILL No.1</u></p> <p><u>PRELIMINARIES</u></p> <p>1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.</p> <p>2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.</p> <p>3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.</p> <p>4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.</p> <p>5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.</p> <p>6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.</p>			
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7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

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

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

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SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

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'.

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

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	Works risk (Clause 8)			
8	F: V: T:	Item		
	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'.			
9	F: V: T:	Item		
	Works insurances (Clause 10).			
10	F: V: T:	Item		
	Liability insurances (Clause 11).			
11	F: V: T:	Item		
	Effecting insurances (Clause 12).			
12	F: V: T:	Item		
	State Provisions (Clause 13).			
13	F: V: T:	Item		
	Security (Clause 14).			
14	F: V: T:	Item		
	<u>EXECUTION</u>			
	Preparation for and execution of the works (Clause 15).			
15	F: V: T:	Item		
	Access to the works (Clause 16).			
16	F: V: T:	Item		
	Contract instructions (Clause 17).			
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17	<p>F: V: T:</p> <p>Setting out of the works (Clause 18.3).</p> <p>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.</p>	Item	
18	<p>F: V: T:</p> <p>Assignment (Clause 19).</p>	Item	
19	<p>F: V: T:</p> <p>Nominated subcontractors (Clause 20).</p>	Item	
20	<p>F: V: T:</p> <p>Selected subcontractors (Clause 21).</p>	Item	
21	<p>F: V: T:</p> <p>Employer's Direct contractors (Clause 22).</p>	Item	
22	<p>F: V: T:</p> <p>Contractor's Domestic subcontractors (Clause 23).</p>	Item	
23	<p>F: V: T:</p> <p><u>COMPLETION</u></p> <p>Practical completion (Clause 24).</p>	Item	
24	<p>F: V: T:</p> <p>Works completion (Clause 25).</p>	Item	
25	<p>F: V: T:</p> <p>Final completion (Clause 26).</p>	Item	
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Latent defects liability period (Clause 27).

Clause 27.0 is amended by the addition of the following clauses:

"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".

"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"

26 F: V: T:

Item

Sectional completion (Clause 28).

27 F: V: T:

Item

Revision of date for practical completion (Clause 29).

28 F: V: T:

Item

Penalty for non-completion (Clause 30).

29 F: V: T:

Item

PAYMENT

Interim payment to the contractor (Clause 31).

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.

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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T: Item

Recovery of expense and loss (Clause 33).

31 F: V: T: Item

Final account and final payment (Clause 34).

32 F: V: T: Item

Payment to other parties (Clause 35).

33 F: V: T: Item

CANCELLATION

Cancellation by Employer - Contractor's default (Clause 36).

34 F: V: T: Item

Cancellation by Employer - Loss and damage (Clause 37).

35 F: V: T: Item

Cancellation by Contractor - Employer's default (Clause 38).

36 F: V: T: Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T: Item

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

The Schedule: Pre-Tender information (Clause 42).

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.

Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A

Clause 42.2.5

Date on which possession of the site is intended to be given on :-

To be advised.

Clause 42.2.6

Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.

Completion in Sections are required : NO

Clause 42.2.7

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

To be advised.

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Penalty amount will be R2,000.00 per calendar day.

Clause 42.2.8

Intended dates of practical completion and the penalties per calendar day for the works in sections :

N/A

Clause 42.2.9

The law applicable to this agreement shall be that of - Republic of South Africa.

INSURANCES (Clause 42.3)

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10%

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

Clause 42.3.2

Supplementary insurance is required : Yes

SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

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

DOCUMENTS (Clause 42.4)

Clause 42.4.1

Waiver of the contractor's lien is required :- YES

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Clause 42.4.2
Number of construction document copies to be supplied to the Contractor free of charge :- 1

Clause 42.4.3
Bills of Quantities drawn up in accordance with :-
Standard System of Measuring Building Work - Seventh Edition including all amendments

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

Clause 42.4.5
JBCC Engineering General Conditions are to be included in the documents :- No

Clause 42.4.6
The contract value is to be adjusted using CPAP:- NO

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.

42 F: V: T:

Item

Provisional Bills of Quantities (B2.2) YES

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Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.

43 F: V: T:

Item

Availability of construction documentation (B2.3)

44 F: V: T:

Item

Interests of Agents (B2.4)

45 F: V: T:

Item

Priced documents (B2.5)

46 F: V: T:

Item

Tender submission (B2.6)

Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.

47 F: V: T:

Item

THE SITE (B3)

Defined works area (B3.1)

The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.

Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.

The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.

48 F: V: T:

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	Geotechnical investigation (B3.2)			
	A desktop geotechnical report is available upon request.			
49	F: V: T:	Item		
	Inspection of the Site (B3.3)			
50	F: V: T:	Item		
	Existing premises occupied (B3.4)			
51	F: V: T:	Item		
	Previous work - dimensional accuracy (B3.5)			
52	F: V: T:	Item		
	Previous work - defects (B3.6)			
53	F: V: T:	Item		
	Services - known (B3.7)			
54	F: V: T:	Item		
	Services - unknown (B3.8)			
55	F: V: T:	Item		
	Protection of trees (B3.9)			
56	F: V: T:	Item		
	Articles of value (B3.10)			
57	F: V: T:	Item		
	Inspection of adjoining properties (B3.11)			
58	F: V: T:	Item		
	<u>MANAGEMENT OF CONTRACT (B4)</u>			
	Management of the Works (B4.1)			
59	F: V: T:	Item		
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	Programme for the Works (B4.2)			
60	F: V: T:	Item		
	Progress meetings (B4.3)			
61	F: V: T:	Item		
	Technical meetings (B4.4)			
62	F: V: T:	Item		
	<u>SAMPLES AND SHOP DRAWINGS (B5)</u>			
	Samples of materials (B5.1)			
63	F: V: T:	Item		
	Workmanship samples (B5.2)			
64	F: V: T:	Item		
	Shop drawings (B5.3)			
65	F: V: T:	Item		
	<u>TEMPORARY WORKS AND PLANT (B6)</u>			
	Deposits and fees (B6.1)			
66	F: V: T:	Item		
	Enclosure of the works (B6.2)			
	The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.			
67	F: V: T:	Item		
	Advertising (B6.3)			
68	F: V: T:	Item		
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69	<p>Plant and equipment (B6.4)</p> <p>F: V: T:</p>	Item		
	<p>Main notice board (B6.5)</p> <p>One notice board shall be provided by the Contractor</p>			
70	<p>F: V: T:</p> <p>Subcontractors notice board (B6.6) (N/A)</p>	Item		
71	<p>F: V: T:</p> <p><u>TEMPORARY SERVICES (B7)</u></p>	Item		
	<p>Location (B7.1)</p>			
72	<p>F: V: T:</p> <p>Water (B7.2)</p> <p>The contractor shall provide water for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p>	Item		
73	<p>F: V: T:</p> <p>Electricity (B7.3)</p> <p>The contractor shall provide electricity for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p>	Item		
74	<p>F: V: T:</p> <p>Telecommunication equipment (B7.4)</p> <p>The contractor shall provide telephones on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p>	Item		
75	<p>F: V: T:</p>	Item		
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76	<p>Ablution facilities (B7.5)</p> <p>The contractor shall provide toilet facilities on site for the works in accordance with:</p> <p>Alternative A (i.e. to be provided for by the Contractor).</p> <p>F: V: T:</p>	Item		
<u>PRIME COST AMOUNTS (B8)</u>				
77	<p>Responsibility for prime cost amounts (B8.1)</p> <p>F: V: T:</p>	Item		
<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>				
78	<p>General Attendance (B9.1)</p> <p>F: V: T:</p>	Item		
79	<p>Special Attendance (B9.2)</p> <p>F: V: T:</p>	Item		
80	<p>Commissioning - fuel, water and power (B9.3)</p> <p>F: V: T:</p>	Item		
<u>FINANCIAL ASPECTS (B10)</u>				
81	<p>Statutory taxes, duties and levies (B10.1)</p> <p>Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).</p> <p>F: V: T:</p>	Item		
82	<p>Payment of Preliminaries (B10.2)</p> <p>F: V: T:</p>	Item		
83	<p>Adjustment of Preliminaries (B10.3)</p> <p>F: V: T:</p> <p>Payment certificate cash flow (B10.4)</p>	Item		
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84	F: V: T: Contractor information supply (B10.5)	Item	
85	F: V: T: <u>GENERAL (B11)</u> Protection of the Works (B11.1)	Item	
86	F: V: T: Protection/isolation of existing/sectionally occupied works (B11.2)	Item	
87	F: V: T: Site security (B11.3)	Item	
88	F: V: T: Notice before covering work (B11.4)	Item	
89	F: V: T: Disturbance (B11.5)	Item	
90	F: V: T: Works cleaning and clearing (B11.6)	Item	
91	F: V: T: Vermin (B11.7)	Item	
92	F: V: T: Overhand work (B11.8)	Item	
93	F: V: T:	Item	
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SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

94 F: V: T:

Item

C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

95 F: V: T:

Item

C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

C4. Overtime

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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.

97 F: V: T:

Item

C5. As built drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

98 F: V: T:

Item

C6. Construction Instructions

Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:

a) Construction Instruction Book:

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.

Only instructions issued in such book shall be recognised.

b) Daily Record Book:

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	<p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p>			
99	<p>F: V: T:</p>	Item		
	<p>C7. Labour record</p>			
	<p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>			
100	<p>F: V: T:</p>	Item		
	<p>C8. Plant record</p>			
	<p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>			
101	<p>F: V: T:</p>	Item		
	<p>C9. Encroachment</p>			
	<p>During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p>			
102	<p>F: V: T:</p>	Item		
	<p>C10. Method Statement</p>			
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103	<p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p>	Item		
104	<p>F: V: T:</p> <p>C11. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p>	Item		
105	<p>F: V: T:</p> <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>	Item		
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	<p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p>			
106	<p>F: V: T:</p>	Item		
	<p><u>C14. Office accommodation</u></p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p>			
107	<p>F: V: T:</p>	Item		
	<p><u>C15. Storage Facilities</u></p>			
108	<p>The Contractor shall provide a Container for storage of materials.</p>	Item		
109	<p>F: V: T:</p>	Item		
	<p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>			
110	<p>F: V: T:</p>	Item		
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111	SUB - TOTAL: FIXED ITEMS	Item		
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item		
113	SUB - TOTAL: TIME - RELATED ITEMS	Item		
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Bill No. 1

Preliminaries

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<p><u>SECTION 1</u></p>			
<p><u>BILL No. 2</u></p>			
<p><u>HEALTH AND SAFETY</u></p>			
<p><u>MODEL PREAMBLES</u></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.</p>			
<p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.</p>			
<p>Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.</p>			
<p>The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.</p>			
<p>The costs included herein must incorporate Community Liaison Officer (CLO).</p>			
<p>Carried to Collection</p>			
<p>Section 1 Bill No. 2 Health and Safety</p>			
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OCCUPATIONAL HEALTH AND SAFETY

General:

1	Preparation of Contractor's site specific Health and Safety Plan.		Item
2	Submission of the Health and Safety File.		Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item
5	Provision of full time Health and Safety Officer for the entire construction period.		Item
6	Induction training of personnel.	No	1
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	105
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1

Provision for Personal Protective Equipment and Protective Clothing:

10	Reflective vests.	No	
11	Hard hats.	No	
12	Protective foot wear.	No	
13	Ear Plugs.	No	
14	Dust Masks.	No	

Costs of Medical Certificates and Medical Surveillance:

15	Initial (baseline) medical examinations.	No	1
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Health and Safety

Section 1

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Health and Safety

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SECTION SUMMARY - PRELIMINARIES

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Section 1

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<p><u>SECTION 2</u></p>			
<p><u>BILL No. 1</u></p>			
<p><u>ALTERATIONS (PROVISIONAL)</u></p>			
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>			
<p><u>MODEL PREAMBLES</u></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Existing Furniture, Equipment, etc</u></p>			
<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>			
<p>Carried to Collection</p>			
<p>Section 2 Bill No. 1 Alterations, etc.</p>			
			R

Damage to existing finishes

The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account

Responsibility for site

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

Explosives

No explosives whatsoever may be used for demolition purposes unless otherwise stated

General

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

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Section 2
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Alterations, etc.

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

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

"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

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

"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

"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

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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)

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

"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

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

"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.

Removal of asbestos material

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.

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Section 2
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Alterations, etc.

The following shall apply in respect of asbestos removal

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

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REMOVAL OF EXISTING WORK

Breaking down and removing brickwork, etc.

1	One brick wall	m2	2
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Taking out and removing doors, windows, etc. and preparing opening to receive new doors, windows, etc. including making good cement plaster on both sides (making good paintwork elsewhere).

2	Timber single door frame not exceeding 2.5m2.	No	1
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3	Timber single door and steel door frame not exceeding 2.5m2, including preparing opening for new door frame.	No	1
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4	Rusted security gate	No	1
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5	Timber single door in existing door frames not exceeding 2.5m2.	No	4
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6	Timber double door and timber door frame exceeding 2.5m2 not exceeding 5m2, including preparing opening for new door frame.	No	1
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7	Take out damaged steel window frame with glazing not exceeding 2,5m2.	No	2
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8	Glazed steel double door exceeding 2.5m2 and not exceeding 5m2.	No	1
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9	Take out and remove damaged asbestos cement cill and prepare surface to receive new cill (In no 7 lenghts)	m	2
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc:

10	Metal roof coverings or sheeting complete, including roof construction, purlins, roof accessories, complete etc.	m2	365
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11	Take off carefully and remove existing damaged asbestos or timber fascia or barge board.	m	83
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12	Gypsum plasterboard or fibre cement ceilings including cornices, timber brandering, etc.	m2	168
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Alterations, etc.

Taking out and removing sundry joinery work, fittings, etc.

13	Skirtings, rails, etc not exceeding 300mm high (Note: This item does not include for removal of skirting where removal of timber floors is measured).	m	162
14	Take out and remove existing damaged timber pinning or steel chalk board and repair walls, etc.	No	2
15	Reception cupboard unit, Size 1,040 x 500 x 1100mm high overall.	No	1
16	Reception Floor Cabinet unit with glazed doors, size 1,070 x 400 x 1440mm high overall.	No	1
17	Reception Desk unit, size 1,870 x 470 x 1,050mm high overall fixed to floor.	No	1
18	Kitchen cupboard unit, size 1,380 x 510 x 900mm high overall fixed to wall & floor.	No	1

Taking up and removing vinyl floor & wall coverings, carpeting, etc:

19	Vinyl tile floor covering or similar including cleaning and repairing existing screed or existing floated concrete to receive new floor covering (elsewhere measured).	m2	79
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Take out and remove complete with brackets, claws, bolts, etc.:

20	Take down and remove damaged sheet iron, asbestos or uPVC gutter and downpipes including all stop ends, bends, corners, offsets, shoes, fittings etc.	m	58
21	Take down and remove damaged curtain track, pelmet and fittings etc.	m	16

Hack up and remove plaster to cracks in walls:

22	Hack off existing plaster from wall and prepare brickwork to receive new plaster (new plaster elsewhere measured).	m2	43
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Section 2
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Alterations, etc.

Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.

23	Hack off existing screed from floors.	m2	6
24	Hack off existing plaster around cracks, etc. to 300mm width, and prepare brickwork to receive new plaster (new plaster elsewhere measured) including chicken mesh as described.	m2	26
25	Hack off existing plaster from wall and prepare brickwork to receive new plaster (new plaster elsewhere measured).	m2	86

Hack up and remove wall and floor tiles:

26	Ceramic floor tiles including preparing surface to receive new tiles (elsewhere measured).	m2	116
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Hack up and remove glazing including preparing surface to receive new glazing:

27	Take carefully out cracked or broken glass of steel window frames including all putty and prepare frame to receive new glazing	m2	7
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Taking out and removing plumbing pipes including all connectors, tee pieces etc (Provisional):

28	15-28mm Water piping.	m	20
29	40-110mm PVC piping.	m	13
30	Break out and remove redundant sewer manholes and gullies and dispose rubble off site as indicated by the Engineer.	No	1

Carefully loosen existing, sanitaryware, taps, traps, etc. and take out and remove complete with brackets, claws, bolts, etc. Block off all piping and repair walls and floors complete:

31	Ceramic wash hand basin complete including all pillar taps, waste, trap etc.	No	3
32	Ceramic bowl urinal.	No	1

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33	Ceramic water closet complete including cistern, pan collar etc.	No	4		
34	600 x 900mm high mirror screwed to wall.	No	2		
<u>Taking out / off and removing plumbing fittings etc:</u>					
35	Stainless steel toilet roll holder.	No	4		
36	Kitchen sink.	No	1		
<u>Prepare existing surfaces for new finish</u>					
37	Clean down, etc. existing painted internal and external plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish.	m2	552		
38	Clean existing facebrick walls by applying sodium hypochlorite solution (1 part household bleach to 2 parts water by volume), clean by using high pressure water jet and suitable mechanical methods to remove loose and unsound substrate material, paint, dirt, bleach, algae/fungi residues and any other surface contaminants including the removal of any plant growth and point with approved epoxy patching mortar, to flush square horizontal and vertical joints, in patchwork to walls.	m2	178		
<u>Repairs to existing:</u>					
39	Chip/scabble existing plastered wall to form rough surface for new tiles (elsewhere measured).	m2	4		
40	Check existing steel windows of different sizes, replace or repair damaged window catch, handle, casement adjuster, casement fastener with slotted plate, hinges, rollers, etc. Adjust as necessary and leave in complete satisfactory working condition.	No	22		
41	Service existing steel door frames 813 x 2032mm high including replacing damaged strike plates and hinges to leave in perfect working order.	No	10		
42	Service existing timber door frames 813 x 2032mm high including replacing damaged strike plates and hinges to leave in perfect working order.	No	2		
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43	Remove existing steel gates of different sizes, replace or repair damaged hinges, locking mechanisms, etc. Adjust as necessary and re-fix in complete satisfactory working condition (painting elsewhere measured).	No	1	
44	Allow the Prime Cost Sum of R8,000.00 (Five Thousand Rand) for servicing of an existing school bell and alarm system.	No	1	
	<u>Carefully take out and set aside in storage on site, complete with any attachments, brackets, claws, bolts, etc.</u>			
45	Allow the Prime Cost Sum of R7,000.00 (Seven Thousand Rand) for the moving out of existing items of loose books or movable furniture including reinstating in new position on completion and leave in perfect working order.		Item	
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	<p><u>SECTION 3</u></p> <p><u>BILL No. 3</u></p> <p><u>MASONRY</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p>All references to SABS shall be deemed to be the relevant SANS specification</p> <p><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>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 "Brixal" bitumen emulsion waterproofing coating.</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>			
	Carried to Collection		R	
	Section 2 Bill No. 2 Masonry			

Samples

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

Trade names

Where trade names are specified it will read "or equal approved"

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Section 2
Bill No. 2
Masonry

BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:

1	Half brick walls. A0 : 0 A1 : 0 A6 : 0 AE : 0	m2	16
2	One brick walls. A0 : 0 A1 : 0 A6 : 0 AE : 0	m2	10

BRICKWORK AND BLOCKWORK SUNDRIES

Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixal" bitumen emulsion waterproofing coating:

3	To walls (Provisional). A0 : 0 A1 : 0 A6 : 0 AE : 0	m2	15
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Galvanized brickwork reinforcement

4	115mm Wide reinforcement built in horizontally A0 : 0 A1 : 0 A6 : 0 AE : 0	m	54
5	230mm Wide reinforcement built in horizontally. A0 : 0 A1 : 0 A6 : 0 AE : 0	m	15

Sundries:

6	Cutting toothings and bonding new brickwork to existing. A0 : 0 A1 : 0 A6 : 0 AE : 0	m2	2
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Galvanised wire ties etc:

7	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. A0 : 0 A1 : 0 A6 : 0 AE : 0	No	90
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Cramps, ties, etc:

8	30 x 2mm Galvanized door frame tie 350mm long with one end fixed to timber and other built into or shot nailed to brickwork or concrete. A0 : 0 A1 : 0 A6 : 0 AE : 0	No	12
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Masonry

Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:All to be sanded to remove sharp edges and cut marks. The corners to be cut at 45 degrees- 1.5 x 1.5mm corner.

9	15 x 150mm Wide sills set flat and slightly projecting.	m	2	
	A0 : 0 A1 : 0 A6 : 0 AE : 0			

FACE BRICKWORK

Facebricks (FBS) prime cost of R7,000.00 per thousand excluding VAT delivered to the site pointed with square ruled recessed horizontal and vertical joints:

10	Extra over brickwork for face brickwork externally.	m2	26	
	A0 : 0 A1 : 0 A6 : 0 AE : 0			

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<p><u>SECTION 3</u></p>			
<p><u>BILL No. 4</u></p>			
<p><u>WATERPROOFING</u></p>			
<p><u>MODEL PREAMBLES</u></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p>			
<p><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>Waterproofing</u></p>			
<p>The product and its methodology for application must be approved by Principal Agent before it is used.</p>			
<p>It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.</p>			
<p>Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.</p>			
<p>Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.</p>			
<p>Carried to Collection</p>			
<p>Section 2 Bill No. 3 Waterproofing</p>			
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JOINT SEALANTS ETC

Clear Neutral silicone sealant:

1 In joint sealing and pointing all round external window and door frames.

A0 : 0 A1 : 0 A6 : 0 AE : 0

m

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Waterproofing

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Waterproofing

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Bill No. 3

Waterproofing

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<p><u>SECTION 3</u></p>			
<p><u>BILL No. 5</u></p>			
<p><u>ROOF COVERINGS</u></p>			
<p><u>MODEL PREAMBLES</u></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<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>Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.</p>			
<p>Carried to Collection</p>			
<p>Section 2 Bill No. 4 Roof Coverings Etc.</p>			
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Safety

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

Handling and Storage

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

Inspection Prior to Installation or Erection

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- 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
- 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

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Section 2
Bill No. 4
Roof Coverings Etc.

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Protrusion through Sheeted Surfaces

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

Cleaning of Roofs, etc

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

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Section 2
Bill No. 4
Roof Coverings Etc.

ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :

1	Roof sheeting laid to a double-pitch.	m2	365	
	A0 : 0 A1 : 0 A6 : 0 AE : 0			

0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:

2	Double pitched ridge capping with 225mm lapping secured onto the roof.	m	32	
	A0 : 0 A1 : 0 A6 : 0 AE : 0			

ROOF AND WALL INSULATION

"Sisalation Grade FR430" or equal approved heavy industrial insulation

3	Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires	m2	365	
	A0 : 0 A1 : 0 A6 : 0 AE : 0			

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Section 2

Bill No. 4

Roof Coverings Etc.

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<p><u>SECTION 2</u></p>			
<p><u>BILL No. 2</u></p>			
<p><u>CARPENTRY AND JOINERY</u></p>			
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</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>Prefabricated roof trusses:</u></p>			
<p>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.</p>			
<p>Prices must include for all cross and windbracing according to the manufacturer's instruction.</p>			
<p>Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.</p>			
<p>Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.</p>			
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<p>Section 2 Bill No. 5 Carpentry and Joinery</p>			
		R	

Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.

The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.

In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.

Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:

(a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction.

(b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services.

(c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work.

(d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.

The following minimum information shall be shown on the drawings:

- (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.
- (b) Bracing as recommended by the Institute for Timber Construction.

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- (c) Sizes and grading of the timber components.
- (d) Truss sizes, e.g. height of ridge or angle of pitch.
- (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).
- (f) Separate connection details for hip, valley and jack rafters.
- (g) Maximum spacing for purlins and bracing to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.
- (h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:

"The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Joinery:

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.

Fixing:

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

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Carpentry and Joinery

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Where items are described as "bolted" the bolts have been measured elsewhere.

ROOFS ETC

Sawn softwood:

1	38 x 114mm Wall plate.	m	58
2	38 x 228mm Gang boarding. (Provisional).	m	131
3	50 x 76mm Purlins.	m	323

Wrought softwood:

4	25 x 120mm Member with chamfer to one end.	m	30
5	50 x 76mm Purlins.	m	91
6	50 x 76mm Bearer fascia support (Provisional).	m	24

Sundries:

7	MiTek® eCo hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	228
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PREFABRICATED ROOF TRUSSES, ETC.

Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account. TREATED Prefabricated timber trusses to be 'Design & Supply' and fixings/ tie downs onto external brickwork to be in line with Structural Engineers details & specifications. Contractor to supply 2 certificates after erection of roof trusses: 1) from manufacturer that all have been manufactured in accordance 2) from roof truss engineer that roof has been erected & fixed in accordance with suppliers drawings. NOTE: all exposed timber/ timber areas in contact with concrete/ timber areas in contact with brickwork to be treated at ground level BEFORE been erected into position at higher levels

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Allow for the manufacture of plate nailed timber roof trusses and delivery to site:

8	Provide the Prime Cost Sum of R 95,000.00 (Ninety Five Thousand Rand) for roof trusses delivered to Site.		Item	95 000.00
9	Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's instructions.		Item	

EAVES, VERGES, ETC

"Everite Nutec" or equal approved fibre cement

10	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	60	
11	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.	m	28	

DOORS ETC

Approved semi-solid flush doors, with Commercial veneer both sides and with hardwood edge strips, tongued and grooved on to edges:

12	44mm Thick, single flush door, size 813 x 2,032mm high.	No	6	
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Wrought meranti doors:

13	44mm Thick, framed, ledged, braced and batten door, formed of 44 x 114mm stiles and top rail, 22 x 114mm middle ledge and braces and 22 x 222mm bottom ledge, the stiles and top rail grooved for and filled in with 22 x 70mm tongued, grooved and V-jointed vertical boarding, with braces brass screwed to every board, size 813 x 2,032mm high.	No	1	
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14	44mm Thick, framed, ledged, braced and batten double door with rebated meeting edges, formed of 44 x 114mm stiles and top rail, 22 x 114mm middle ledge and braces and 22 x 222mm bottom ledge, the stiles and top rail grooved for and filled in flush on one side with 6mm plywood and otherside with 22 x 70mm tongued, grooved and V-jointed vertical boarding with V-joint continued around framing on flush side, each board twice countersunk, screwed at intersections with ledges, size 1,613 x 2,032mm high.	No	1
<u>FRAMES AND LININGS (FRAMED)</u>			
<u>Wrot Meranti</u>			
15	69 x 108mm Rebated and angle rounded frame.	m	11
<u>BEADS, ARCHITRAVES, ETC</u>			
<u>Wrought meranti:</u>			
16	19 x 70mm Skirting fixed to walls including 19mm quadrant bead planted on.	m	10
<u>Sundries:</u>			
17	38 x 76 mm Chamferred and grooved weatherboard fixed in and including groove or rebate in underside of door.	m	5
<u>NOTICE BOARDS, PINNING BOARDS, EYBOARDS, DUCKBOARDS, ETC.</u>			
<u>Wrot Meranti</u>			
18	22 x 44mm Rebated surrounds plugged to walls with heads of screws sunk and pelleted.	m	9
<u>Bitumen impregnated fibre board:</u>			
19	12mm Insulation board backing plugged and glued to wall with an approved adhesive, including all square cutting and waste.	m2	8

SHELVING

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Carpentry and Joinery

<u>Wrought laminated softwood:</u>				
20	19mm Thick laminated wrot S A pine shelving with rounded edges on front side, screwed to brackets (elsewhere).	m2	12	
<u>FITTINGS</u>				
The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured, and must be installed by a firm of specialists. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc.				
<u>Prime cost items where details are not available at time of Tender:</u>				
21	Allow the Prime Cost Sum of R9,700.00 (Nine Thousand Seven Hundred Rand) for a FILING DESK UNIT, Size 1,040 x 500 x 1100mm high overall.	No	1	
22	Allow the Prime Cost Sum of R16,500.00 (Sixteen Thousand Five Hundred Rand) for a RECEPTION FILING CABINET UNIT, with glazed doors, size 1,070 x 400 x 1440mm high overall.	No	1	
23	Allow the Prime Cost Sum of R20,000.00 (Twenty Thousand Rand) for a RECEPTION DESK UNIT, Size 1,870 x 900 x 1,050mm high overall, fixed to floor.	No	1	
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Section 2 Bill No. 5 Carpentry and Joinery				

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Carpentry and Joinery

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Carpentry and Joinery

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	<p><u>SECTION 2</u></p> <p><u>BILL No. 3</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</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>Descriptions:</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>6,4mm Rhino gypsum plasterboard with H-profile steel jointing strips</u></p>			
1	Ceilings in Patchwork including 38 x 50mm sawn softwood branderling at 400mm centres with cross branderling at joints, ends of sheets and at light fittings, etc.	m2	201	
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	Section 2 Bill No. 6 Ceilings, Partitions and Access Flooring			

2	Extra over ceiling for opening for 650 x 650mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc as described (Provisional).	No	2		
<u>Paper covered polystyrene cornice, or equal approved, plugged to walls including mitres, etc.:</u>					
3	75mm Coved cornice.	m	175		
Carried to Collection					
<div style="display: flex; justify-content: space-between;"> <div data-bbox="172 1948 662 2094"> <p>Section 2 Bill No. 6 Ceilings, Partitions and Access Flooring</p> </div> <div data-bbox="1268 1904 1300 1948">R</div> </div>					

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Bill No. 6

Ceilings, Partitions and Access Flooring

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Section 2

Bill No. 6

Ceilings, Partitions and Access Flooring

Item No	Quantity	Rate	Amount
<p><u>FLOOR COVERINGS, WALL LININGS, ETC</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</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>Cleaning:</u></p> <p>Rates for floor covering shall include for proper cleaning on completion.</p> <p><u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u></p> <p><u>Note: Ensure screed is smooth, hard, clean, dry, level and aligned with all adjacent substrates and fall towards cnt floor drains from all sides where required. Sample floor requested for approval.NB: Flooring sub-contractor to approve floor screeds in writing BEFORE laying of vinyl floor sheeting:</u></p>			
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<p>Section 2 Bill No. 7 Floor Coverings, Wall Linings, Etc.</p>			

Supply and lay 3mm fully flexible vinyl floor sheeting in Multi-colour patterns, manufactured in accordance with SANS specification 786, laid in approved acrylic emulsion adhesive, spread with a Vicker A24F trowel at a rate of between 5.5m² to 6.5m² per litre, depending on sub- floor porosity, on a previously prepared sub- floor by builders as described above and elsewhere measured including all cutting and waste. Joints to be butted, grooved and heat welded ensuring that the welding rod bonds to more than 70% of the sheet thickness. To be installed in accordance with the manufacturers recommendations. All sub- floors to be tested for moisture content prior to installation. The material to be rolled in both directions with an articulated 68kg three- sectional metal floor roller. Vinyl flooring laid on screed grade 1 variance & if not achieved, to lay self levelling screed to approval of the flooring sub- contractor:

1	On smooth screeded floors.	m2	6	
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POLISH, SEALERS, ETC

Clean by stripping and sealing and apply three coats water based copolymer emulsion or other approved sealer:

2	On vinyl flooring.	m2	6	
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Floor Coverings, Wall Linings, Etc.

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Bill No. 7

Floor Coverings, Wall Linings, Etc.

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Bill No. 7

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<p><u>SECTION 2</u></p>			
<p><u>BILL No. 4</u></p>			
<p><u>IRONMONGERY</u></p>			
<p><u>MODEL PREAMBLES</u></p>			
<p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Keys/Locks</u></p>			
<p>Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys</p>			
<p><u>Trade Names</u></p>			
<p>Where trade names are specified other ironmongery approved by the Principal Agent may be used</p>			
<p><u>Fixing</u></p>			
<p>Fixing of ironmongery is deemed to be fixed to timber unless otherwise described</p>			
<p>Carried to Collection</p>			
<p>Section 2 Bill No. 8 Ironmongery</p>			
			R

HINGES:

1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	25.0
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LOCKS

2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	9
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HANDLES

3	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	9
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SIGN PLATES:

All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.

4	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	8
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BATHROOM FITTINGS ETC.

Bathroom Accessories:

5	Brushed finish stainless steel hand dryer, size 241 x 322 x 170mm. 3 x faster hand drying with 20, 000rpm motor speed-10 to 15 seconds drying time. Uses 80% less energy than regular hand dryers with a 1 year carry-in warranty-SABS/NRCS approved	No	2
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Towel rails:

6	19mm Diameter stainless steel chromium plated towel rail 900mm long including end brackets plugged to wall.	No	2
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Halcast or equal approved"

7	Thiefproof toilet roll holder plugged.	No	4
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8	DORMA DDS-SS-017 Floor Mounted Door Stop (Stainless Steel).	No	17
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Section 2
Bill No. 8
Ironmongery

Curtain tracks/Curtains:

9	Heavy-duty aluminium with epoxy-coated finish double curtain track for face fixing with 44mm projection including 14 rollers per metre, brackets, stopped ends, etc.	m	14
10	Allow for Curtains size 1,300 x 2,100mm high, with a Prime Cost of R 500.00 each.	No	11
11	Allow for Lace or Block Out Lining Curtains size 1,300 x 2,100mm high, with a Prime Cost of R 750.00 each.	No	11

Sundries:

12	50mm Plastic key tag.	No	8
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LETTERS, NAMEPLATES, ETC.

Acrylic door plates:

13	250 x 40 x 6mm Thick white acrylic door name plate with nine letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	17
----	--	----	----

Sign plates:

14	152 x 152 x 2mm Anodised silver engraved sign with Fire Extinguisher Pictogram E06, fixed to wall or door (Union AL5066E-06/2AS).	No	2
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15	152 x 152 x 2mm Anodised silver engraved sign with Directional Pictogram E08, fixed to wall or door (Union AL5066E-08/2AS).	No	3
----	---	----	---

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

PINNING BOARDS, ETC

16	Standard "Bulletin Board" or equal approved 1200mm wide x 2400mm pinning board with Standard 20mm wide alum frame and including concealed mounting & Carpet finish fixed to wall as per manufactures specification in Denim (Blue-C) colour. Code BD0476	No	4
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Ironmongery

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Ironmongery

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Ironmongery

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	<p><u>SECTION 2</u></p> <p><u>BILL No. 5</u></p> <p><u>METALWORK</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><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>Descriptions</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>NOTE: All steel will be Hot dipped galvanised unless otherwise stated.</p> <p><u>SUNDRY BRASS WORK:</u></p> <p><u>Brass:</u></p>			
1	3 x 40mm Weatherbar set in concrete flush with floor finish one side.	m	4	
	Carried to Collection			R
	Section 2 Bill No. 9 Metalwork			

**PRE-GALVANISED PRESSED STEEL DOOR
FRAMES**

Note : In accordance with an instruction from the Department of Public works all door frames and windows are to be galvanised, regardless of the locality of the school

1.6mm Double rebated frames suitable for one brick walls

2	Frame for door 813 x 2032mm high.	No	3	
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GALVANIZED STEEL WINDOW FRAMES

Residential open out type window frames:

3	Window, size 1022 x 654mm high with MBP2 burglar bars.	No	1	
---	--	----	---	--

Industrial type window frames fitted with burglar bars to all opening sections at factory:

4	Window, size 1029 x 1250mm high with MBP2 burglar bars.	No	1	
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ALUMINIUM DOORS

All doors to be approved by the Architect prior to installation.

White Powder coated aluminium doors (complying with AAAMSA performance criteria A2) including clip-on glazing beads with neoprene seals, factory glazed with 'LOW E' 6.38mm intruderpruffe normal strength glass as per SABS 0137 and SABS 1263 Part 1, supplied with 100 micron thick plastic sleeve for protection, fixed with minimum three lugs per side in accordance with manufacturers instructions:

5	Double entrance door and frame size 1480 x 2130mm high, in two equal leaves.	No	1	
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HOT DIP GALVANIZED STEEL GATES

Note: The contractor is to check on site measurements before placing of order.

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Section 2
Bill No. 9
Metalwork

Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:

- | | | | |
|---|---|----|---|
| 6 | Security gate size 900 x 2050mm high (G1). | No | 1 |
| 7 | Security double gate size 1800 x 2050mm high. | No | 1 |

SHELVING

Approved standard epoxy powder coated finish shelving, etc. fixed in position strictly in accordance with the manufacturer's specification

- | | | | |
|---|--|----|---|
| 8 | 1600mm High double slot wall band fixed to wall with 8 x 80mm 'Hilti' drive anchors. | No | 5 |
| 9 | 350mm Wide shelf bracket. | No | 5 |

KEY CABINET

Approved standard epoxy powder coated finish key cabinet, etc. fixed in position strictly in accordance to the manufacturer's specification.

- | | | | |
|----|---|----|---|
| 10 | 550h x 270w x 50d, 50 Key Cabinet (Code: KC20) mounted on the wall. Refer to 'ALT 7'. | No | 1 |
|----|---|----|---|

STEEL LOCKERS

Approved standard epoxy powder coated finish lockers, etc. fixed in position strictly in accordance with the manufacturer's specification:

- | | | | |
|----|---|----|---|
| 11 | 1800mm(H) x 300mm(W) x 450mm(D) Single lockers fitted in position complete with top shelf (opening 255mm(H) x 230mm(W) x 420mm(D)) & hangrail below & hasp & staple for padlock facility. Weight 16kg (JS01 - Hammertone grey). | No | 5 |
|----|---|----|---|

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Metalwork

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Metalwork

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	<u>SECTION 2</u>			
	<u>BILL No. 6</u>			
	<u>PLASTERING</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<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>SCREEDS</u>			
	<u>Grind and Prime existing surface with 4 to 5mm thick self-leveling Tal-Screed Master or Equal approved, in strict accordance with manufacturer's instructions, to form an even surface to receive vinyl sheeting (elsewhere measured):</u>			
1	On new screeded floors (Provisional).	m2	6	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster (4:1) mixed with latex polymer mortar improver and adhesive (replacing 33% of normal water content) on brickwork:</u>			
2	On existing Walls.	m2	112	
3	In narrow widths.	m2	6	
	<u>EXTERNAL PLASTER</u>			
	Carried to Collection			R
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Cement plaster on brickwork:

4	On walls.	m2	12
5	In narrow widths.	m2	6
6	In plaster band 150mm wide.	m	11

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Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p> <p><u>BILL No. 7</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</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>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Chasing:</u></p> <p>Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing, wrapping in suitable bown paper and making good shall be included in the rates for pipes.</p>			
Carried to Collection			R
<p>Section 2 Bill No. 11 Plumbing and Drainage</p>			

Holes for pipes through new walls:

No allowance for holes and drilling for pipes through new walls has been made in these bills of quantities, the price for all holes and making good shall be deemed to be included in the description of pipes.

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Description of pipes laid in trenches:

Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor.

Excavations:

No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.

'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.

Laying, backfilling, bedding, etc of pipes:

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.

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Flush pans:

Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.

Stainless steel basins, sinks, wash troughs, urinals, etc:

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.

Fixing:

Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.

Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.

Waste unions:

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

Sleeve pipes:

Electrical sleeve pipes to be Class 34 and are to include for draw wires.

RAINWATER DISPOSAL (PROVISIONAL):

Watertite or equal approved Aluminium Gutters and Downpipes:

1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.	m	60
2	Extra over eaves gutter for stopped end.	No	4
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	4
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	11
5	Extra over rainwater downpipe for bends.	No	6

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Plumbing and Drainage

SANITARY FITTINGS

Vitreous china:

Vaal or equal approved:

6 Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification. No 3

7 Orchid back inlet white vitreous china wall hung pan [code 439016] with floor bracket [code 8082Z0] fitted as per manufacturer's specifications and combined with: GEBERIT Kombifix UP172 for wall hung WC, [G110.150.00.1], front actuated with Delta21 dual flush actuator [G115.125.46.1] in matt finish, including flushpipe and Pan connector, water supply connection with angle stop valve, Netting for direct plastering, protection cover for service opening and protection cover for flushpipe, fixed with included fastening materials inside a single solid wall [80mm] No 4

8 Lavatera White Vitreous china wall mounted bowl urinal with top inlet [code: 704001] 610x385mm, supplied with 38mm chromium plated domical grating [code: 8787], chromium plated spreader [code: 8543], and two hanger brackets [code: 8127] No 1

'Franke (t/a Citimetal)' grade 304 (18/10) stainless steel catering ware:

9 Franke Cascade (Code: CDX621-120) stainless steel model centre inset sink with two deep bowls, with two 38mm PVC waste and plug with handle, set on cupboard fittings (by others) including cutting one tap hole. KS1 No 1

WASTE UNIONS ETC

Waste unions etc:

10 32mm Chrome plated anti theft plug (code 309-32) with spindle basin waste union. No 4

TRAPS ETC

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<u>Traps etc:</u>					
11	40mm Chrome plated deep seal bottle trap with outlet for 40mm PVC (code 365/40).	No	4		
<u>Accessories:</u>					
12	0.8mm thick satin finished thick stainless steel soap dispensers with 1,250ml soap capacity lockable 304 stainless steel casing with manual top-up of soap reservoir plugged and screwed to the wall with stainless steel screws. Brass pump mechanism can also dispense lotions and shampoos.	No	2		
13	Reflex Disposer wall mounted waste bin colour White (code: SA426213), overall size 334 x 258 x 635mm high.	No	2		
14	Brushed stainless steel toilet roll holders plugged and screwed to the wall with stainless steel screws with sight inspection hole. Capacity of 3 toilet rolls and lockable. Samples to be presented to architect for approval.	No	4		
<u>TAPS, VALVES, ETC</u>					
<u>Solid Cast brass taps, valves, etc:</u>					
15	"Cobra KM2-200" or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	3		
<u>Mixers:</u>					
16	Cobra or other approved Tap Sink Mixer Deck Mount Cobra Seine with Pull out Spray Chrome wall type concealed connections with sliding wall flanges.	No	1		
<u>Sundries, etc:</u>					
17	Standard 15mm stainless steel braided female swivel connection piece 350mm long.	No	4		
<u>SANITARY PLUMBING</u>					
<u>PVC waste or vent pipes and fittings:</u>					
18	50mm Waste pipe.	m	40		
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19	110mm Pipe.	m	4
	<u>uPVC gulleys</u>		
20	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gully (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar.	No	1
	<u>Extra for:</u>		
21	50mm Bend.	No	2
22	50mm Access bend.	No	4
23	110mm Access bend.	No	5
	<u>Testing:</u>		
24	Testing waste water pipe system.		Item

WATER SUPPLIES

Polycop pipes:

Pipes shall be class 10.

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level

Polycop pipes chased in walls:

Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.

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Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Class 10 Polycop pipes:

25	15mm Pipe building into walls.	m	20
26	22mm Ditto.	m	28

Extra over polycop pipes for compression fittings:

27	15mm Fittings.	No	10
28	22mm Fittings.	No	18

Testing:

29	Testing water supply pipe system.		Item
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	<u>SECTION 2</u>			
	<u>BILL No. 8</u>			
	<u>GLAZING</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<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>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6,38mm Normal strength clear laminated safety glass:</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m2	8	
	<u>6,38mm Normal strength obscure laminated safety glass:</u>			
2	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m2	3	
	<u>Sundries:</u>			
3	Allow the sum of R600.00 (Six Hundred Rand) per m2 for Tinting to be applied to Glazing for privacy by Specialist Sub-Contractor.	m2	4	
	<u>MIRRORS</u>			
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	Section 2 Bill No. 12 Glazing			

6mm Float Glass Silvered Back Mirror With Polished Edges, Four Times Holed For And Screwed To Plugs In Wall With Chromium Plated Dome Headed Screws And Cork Washers At Back

4	Mirror size 400 x 600mm.	No	1
5	Mirror 400 x 1,500mm high including four CP screw caps.	No	1

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL No. 9</u></p> <p><u>TILING</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</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>Fixing:</u></p> <p>Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.</p> <p><u>WALL TILING</u></p> <p><u>Porcelain tiles size 300 x 300mm (Nominal size) (P.C. amount of R 150,00/m2 delivered to site, but excluding VAT) bedded on screeded concrete laid with straight joints in both directions fixed with Tal Gold Star 6 rapid setting tile adhesive and grouted with dove grey Tal Wall & Floor grout:</u></p>			
1	On walls.	m2	6	
	<p><u>FLOOR TILING</u></p>			
	Carried to Collection			R
	Section 2 Bill No. 13 Tiling			

600 x 600mm Porcelian floor tiles (P.C. amount of R 250,00/m2 delivered to site, but excluding VAT) bedded on screeded concrete surfaces laid with straight joints in both directions fixed with Tal Gold Star 6 rapid setting tile adhesive and grouted with Tal Wall & Floor grout:

2	On floors.	m2	195
3	Cut tile skirting 100mm high laid with joints aligned.	m	164

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL No. 10</u></p> <p><u>PAINTWORK</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</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>All work to be executed in strict accordance with the specifications of the paint manufacturer.</p> <p>Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON FIBRE-CEMENT</u></p> <p><u>Prepare and apply two coats pure acrylic roof paint on:</u></p>			
1	Fascias and barge boards.	m2	44	
	<p><u>ON PLASTERBOARD SURFACES</u></p> <p><u>Prepare and prime nail heads and apply one coat plaster primer thinned 5 parts to 1 part Mineral Turpentine and paint with two coats pure acrylic paint on:</u></p>			
2	Ceilings and cornices.	m2	201	
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	<p>Section 2 Bill No. 14 Paintwork</p>			

ON WOOD

Prepare and apply three coats polyurethane matt varnish on:

3	Doors (all surfaces measured).	m2	39
4	Frames, skirtings, rails, etc not exceeding 300mm girth.	m	21

ON METAL

Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat galvanised metal primer and finish with two coats superior universal non drip enamel on:

5	On Door frames.	m2	7
6	Exterior gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	8
7	Windows with burglar bars (both sides measured).	m2	1

RENOVATIONS

ON PLASTER, etc

Sand down thoroughly down existing paint, prepare patch and paint one coat approved primer, one undercoat and two coats premium quality Acrylic paint (PVA) interior use on :

8	Existing external plastered or bagged walls	m2	98
9	Existing internal plastered or bagged walls	m2	465

ON FIBRE CEMENT OR RHINOBAORD

Strip old flaking paint, prepare surfaces, treat defects with all purpose adhesive filler, apply 1 coat plaster primer thinned 5 parts to 1 part Mineral Turpentine and repaint with 2 coats superior acrylic PVA:

10	On sills.	m2	8
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ON METAL

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Section 2
Bill No. 14
Paintwork

Sand down thoroughly existing paint, prepare and paint one coat Zinc Chromate primer, one universal undercoat and two coats high gloss enamel paint on
:

11	On Door frames.	m2	24
12	Windows with burglar bars (both sides measured).	m2	50
13	Exterior gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	12

ON TIMBER

Strip old flaking paint, prepare surfaces and clean with degreaser, treat defects with all purpose adhesive filler, and prepare for and paint 1 universal undercoat and 2 coats quality universal enamel:

14	On doors (all surfaces measured).	m2	4 197
15	Skirtings, Frames, rails, etc not exceeding 300mm girth.	m	6

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Section 2

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	<u>SECTION No. 4</u>			
	<u>BILL No. 1</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</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>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>			
	<u>STORMWATER CHANNELS</u>			
	<u>Excavation not exceeding 2m deep</u>			
1	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	14	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
2	Off site to a dumping site to be found by the Contractor.	m3	14	
	<u>Filling supplied by the contractor under channels</u>			
3	Oversite of G7-Selected Layer compacted to 98% Mod AASHTO density	m3	5	
4	Over site of G5-Selected material compacted to 95% Mod AASHTO density.	m3	5	
	Carried to Collection			R
	Section 3 Bill No. 1 External Works			

Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.

5	700 x 150mm thick 80mm deep 'V' channel, in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	43
6	Extra for 700mm angle	No	5
7	Extra for forming 2000mm x 150mm thick spreader with 150mm x 300mm Deep concrete cut off wall at furthest end and 150 x 150 x 150 concrete blocks set into in-situ concrete invert slab (energy dissipaters).	No	1

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	<u>SECTION 5</u>			
	<u>BILL No. 1</u>			
	<u>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>BUDGETARY ALLOWANCES</u>			
	<u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u>			
	<u>COMMUNITY LIAISON OFFICER</u>			
1	Provide the sum of R58 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (9 months)	Item		58 500.00
2	Add: Mark-up		%	
	<u>ELECTRICAL INSTALLATION</u>			
3	Provide the sum of R 250 000.00 (One Hundred and Fifty Thousand Rand) for Electrical installation.	Item		250 000.00
4	Add: Profit		%	
5	Add: Attendance		%	
	Carried to Collection		R	
	Section 4			
	Bill No. 1			
	Provisional Sums			

OFFICE FURNITURE

6 Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for Office Furniture.

Item 100 000.00

7 Add: Profit

%

8 Add: Attendance

%

TEMPORARY OFFICES AND ABLUTIONS

9 Provide the sum of R 250 000.00 (Two Hundred and Fifty Thousand Rand) for the Supply, Servicing and maintenance of temporary ablutions for the duration of the project and Removal thereof on completion.

Item 250 000.00

10 Add: Profit

%

11 Add: Attendance

%

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Section 4
Bill No. 1
Provisional Sums

Section 4

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Provisional Sums

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2	RENOVATIONS AND UPGRADES TO EXISTING ADMINISTRATION BLOCK	99		
3	EXTERNAL WORKS (PROVISIONAL)	103		
4	PROVISIONAL SUMS	106		
	SUB-TOTAL		R	
	<u>CONTINGENCIES</u>			
	Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R	
	SUB-TOTAL		R	
	Add Value Added Tax at the rate of 15%		R	
	Carried to Form of Offer and Acceptance		R	