

PART_A – PRELIMINARIES

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

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

Item

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	Works risk (Clause 8)			
8	F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item		
9	F: V: T: Works insurances (Clause 10).	Item		
10	F: V: T: Liability insurances (Clause 11).	Item		
11	F: V: T: Effecting insurances (Clause 12).	Item		
12	F: V: T: State Provisions (Clause 13).	Item		
13	F: V: T: Security (Clause 14).	Item		
14	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
15	F: V: T: Access to the works (Clause 16).	Item		
16	F: V: T: Contract instructions (Clause 17).	Item		
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17	F: V: T: Setting out of the works (Clause 18.3). The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: V: T: Assignment (Clause 19).	Item		
19	F: V: T: Nominated subcontractors (Clause 20).	Item		
20	F: V: T: Selected subcontractors (Clause 21).	Item		
21	F: V: T: Employer's Direct contractors (Clause 22).	Item		
22	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).	Item		
24	F: V: T: Works completion (Clause 25).	Item		
25	F: V: T: Final completion (Clause 26).	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:

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

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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: Renovations to existing Four Classroom block and Construction of new ablution facilities with associated external works.

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 :-

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To be advised.

Penalty amount will be R 2000.00 per Calendar day to a maximum of 10% of Contract Value.

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 : 5% of insured amount

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 10million

With a deductible of: 5% of insured amount

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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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

SAMPLES AND SHOP DRAWINGS (B5)

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

TEMPORARY WORKS AND PLANT (B6)

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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	Plant and equipment (B6.4)		
69	F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item	
70	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item	
71	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)		
72	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
73	F: V: T: Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
74	F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
75	F: V: T:	Item	
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	Ablution facilities (B7.5)		
	The contractor shall provide toilet facilities on site for the works in accordance with:		
	Alternative A (i.e. to be provided for by the Contractor).		
76	F: V: T:	Item	
	<u>PRIME COST AMOUNTS (B8)</u>		
	Responsibility for prime cost amounts (B8.1)		
77	F: V: T:	Item	
	<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>		
	General Attendance (B9.1)		
78	F: V: T:	Item	
	Special Attendance (B9.2)		
79	F: V: T:	Item	
	Commissioning - fuel, water and power (B9.3)		
80	F: V: T:	Item	
	<u>FINANCIAL ASPECTS (B10)</u>		
	Statutory taxes, duties and levies (B10.1)		
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).		
81	F: V: T:	Item	
	Payment of Preliminaries (B10.2)		
82	F: V: T:	Item	
	Adjustment of Preliminaries (B10.3)		
83	F: V: T:	Item	
	Payment certificate cash flow (B10.4)		
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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: 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.	Item		
98	F: V: T: 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:	Item		
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	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.			
99	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
100	F: V: T: C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.	Item		
101	F: V: T: C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item		
102	F: V: T: C10. Method Statement	Item		
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	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.			
103	F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item		
104	F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.	Item		
105	F: V: T:	Item		
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	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.			
106	F: V: T: <u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T: C16. Removal and Making Good of Temporary Works, etc, on Completion The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item		
110	F: V: T:	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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Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL No. 2</u>			
<u>HEALTH AND SAFETY</u>			
<u>MODEL PREAMBLES</u>			
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.			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.			
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
The costs included herein must incorporate Community Liaison Officer (CLO).			
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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 |
| 7 | Provision of first aid boxes. | No |

Provision for Personal Protective Equipment and Protective Clothing:

- | | | |
|----|-----------------------|----|
| 8 | Reflective vests. | No |
| 9 | Hard hats. | No |
| 10 | Protective foot wear. | No |
| 11 | Ear Plugs. | No |
| 12 | Dust Masks. | No |

Costs of Medical Certificates and Medical Surveillance:

- | | | |
|----|--|----|
| 13 | Initial (baseline) medical examinations. | No |
| 14 | Exit Examinations. | No |

Noise Monitoring:

- | | | |
|----|-------------------------------|----|
| 15 | Establishment of noise zones. | No |
| 16 | Audiograms. | No |

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C16. Covid-19 Compliance Measures

- 17 The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.

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PART_B – RENOVATIONS TO EXISTING FOUR CLASSROOM BLOCK

Item No		Quantity	Rate	Amount
	<u>SECTION 1</u>			
	<u>BILL No. 1 : ALTERATIONS</u>			
	<u>MODEL PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Existing Furniture, Equipment, etc</u>			
	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			
	<u>Damage to existing finishes</u>			
	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			
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	Section 1 Bill No. 1 Alterations			

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

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

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"Taking out and removing doors, windows, etc"

implies that the door, etc is to be carefully taken down together with the frame, 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

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

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"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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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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TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal and allow for re-use

1	SANS approved weld mesh type temporary barrier fencing 1,8m high with shade cloth fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at maximum 3m spacing	m	500
2	Double gate size 3 x 1.8m high	No	1

REMOVAL OF EXISTING WORK

Taking out and removing timber doors, etc

3	Timber single door 813 x 2032mm high	No	4
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Taking out and removing glass and mirrors, etc

4	Glass from steel windows including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	27
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely

5	Corrugated metal roof sheeting including timber roof purlins, underlay etc.	m2	336
6	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	256
7	Fascia boards and fixings	m	66
8	Barge boards and fixings	m	20
9	Rainwater gutters and fixings	m	66
10	Rainwater downpipes and fixings	m	12

Clean down, etc

11	Clean existing vinyl floor tiles and prepare surfaces to receive floor polish (new polish elsewhere measured)	m2	256
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<u>Prepare existing surfaces for new finish</u>					
12	Clean down, etc. existing emulsion painted internal plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish	m2	381		
13	Clean down, etc. existing emulsion painted external plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish	m2	237		
<u>Taking out and removing ironmongery</u>					
14	Damaged chalkboard 2400 x 1140mm	No	4		
<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>					
15	Plaster from walls in patches	m2	262		
16	Screed to floors in veranda.	m2	96		
<u>STRUCTURAL REPAIRS</u>					
<u>Repairs to structural cracks, etc</u>					
17	Rake out existing minor structural crack in blockwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere).	m	79		
18	Rake out existing major structural crack in blockwork, remove all debris/loose material including embedding steel rods, cutting or drilling slots (60mm deep) in brickwork at 250mm centres to embed 8mm mild steel bars fixed between mortar joints with injected epoxy resin	m	56		
<u>SERVICE</u>					
<u>Steel Windows</u>					
19	Service window including lubricating ironmongery and leave in good workable condition	No	28		
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TEMPORARY ACCOMODATION

20	Rental of temporary accommodation approximate size 7 x 7m wide, including standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings, electrical certificate of compliance, for a period of six (6) calendar months	No	4
21	Two tier steps for six (6) Calendar months	No	4
22	Electrical Compliance Certificate	No	1
23	Transportation and establishment on site and de-establishment on completion temporary accommodation units approximate size 7 x 7m wide	No	4

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<u>SECTION 2</u> <u>BILL No. 1</u> <u>MASONRY</u> <u>MODEL PREAMBLES</u> 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. <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>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick. <u>Face bricks:</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. <u>Pointing:</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, and cleaning etc. <u>Samples, etc:</u> Rates for brickwork, faced brickwork, etc shall include for all required samples.			
Carried to Collection			R
Section 2 Bill No. 1 Masonry			

Concrete masonry units:

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa

Wall ties for blockwork:

Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

Blockwork:

Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"

Surfaces shall have joints raked out to a depth of at least 10mm and pointed on exposed surfaces. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.

Standard complementary blocks:

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

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Bill No. 1
Masonry

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SUPERSTRUCTURE

3,5MPa Cement blocks in class II mortar

1	M140 block wall in beamfilling	m2	48
2	M140 block walls	m2	95

BRICKWORK SUNDRIES

Galvanized brickwork reinforcement

3	75mm Wide reinforcement built in horizontally	m	250
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15MPa Mass concrete

4	Infill to single row of M140 U block blockwork	m	64
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Cramps, ties, etc:

5	30 x 1.6mm Galvanized roof tie 1600mm long with one end fixed to timber and other built into brickwork or concrete.	No	54
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<u>SECTION 2</u> <u>BILL No. 2</u> <u>ROOF COVERINGS ETC.</u> <u>MODEL PREAMBLES</u> 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. <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>Fixing:</u> Fixing shall be done according to SABS 1200HB with minimum 225mm end laps. <u>Guarantee:</u> The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years. <u>Pricing:</u> Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).			
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Section 2 Bill No. 2 Roof Coverings Etc.			

PROFILED METAL SHEETING AND ACCESSORIES

0.53mm Zinc alum broad flute IBR finish chromadek pre - coated roof sheeting (charcoal) laid at 18 degrees pitch on 75 x 50mm purlins at +/- 1200mm centres max. on Sisalation RSA 420 underlay under purlins on straining tape on timber trusses laid as per manufacturers specification.

1	Roof covering with pitch not exceeding 25 degrees.	m2	336
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0.53mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's recommendations:

2	Ridge 550mm girth with minimum 225mm laps, fixed to roof sheeting (measured net).	m	33
---	---	---	----

3	Standard narrow and broad flute closers.	m	66
---	--	---	----

ROOF INSULATION

"Sisalation 420" or equal approved heavy industrial grade aluminium foil based insulation

4	Insulation laid taut over purlins (at approximately 450mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	336
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Bill No. 2
Roof Coverings Etc.

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Roof Coverings Etc.

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<u>SECTION 2</u>			
<u>BILL No. 3</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>MODEL PREAMBLES</u>			
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.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>ROOFS ETC</u>			
<u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u>			
All trusses to be fabricated in a factory by a truss fabricator who holds a current Certificate of Competence awarded by the Institute for Timber Construction			
TR1 & TR2 Certificates are to be issued for each Block before occupation may take place			
<u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u>			
NOTE: All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES			
Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and TR1 and TR2 Certificates			
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TIMBER

Timber for trusses to be South African softwood structural timber and shall be at least of grade 4 and in accordance with SABS Specification No.'s 563 or 1245 or laminated timber in accordance with SABS 1460

METAL CONNECTOR PLATES

Metal truss connector plates shall be made from galvanised steel of at least 1mm nominal thickness, with a minimum yield strength of 250MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be 0,275Kg/m² commercial class hot dipped galvanising

The connector plates shall have been tested by the CSIR and be a size capable of transmitting the forces between the members of a truss without exceeding the design values given in the CSIR report

BOLTS

Bolts shall be to BS 4190 or SABS 135 with appropriate washers. (See below)

WASHERS

Square or round washers of the following minimum dimensions shall be used with all bolts:

WASHER DIMENSIONS

Bolts Size	Width (mm)	Thickness
up to M8	25	2,5
up to M12	36	4,0
up to M20	60	5,0

SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS

These shall be as specified in BS 1579 and installed in accordance with the CSIR Publication : HOUT 468, "The Design, Manufacture and Erection of Timber Trusses".

NAILS

These shall be in accordance with SABS 820 : 1974

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TRUSS CONSTRUCTION

The trusses shall be constructed to ensure the correct profile, overhangs and cambers

All joints are to be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint

TRUSS DESIGN

All trusses shall be designed by a registered Professional Engineer employed by the Contractor in accordance with the SABS Code of Practice for the Design of Timber Structures SABS 0163 and the Code of Practice for General Procedures and Loadings SABS 0160

TRUSS SPACING

The truss centres shall be less than or equal to that described in the Bills for each respective truss type

DRAWINGS

Prints shall be provided to the consulting engineer/ architect for approval. These drawings shall be signed by a Professional Engineer

The following minimum information shall be supplied:

- * Details of the roof system with the positions of all trusses and beams clearly indicated
- * Bracing details
- * All truss details, including valley trusses where applicable, with the following clearly detailed:-
 - All member sizes and grades
 - Connector plate sizes for all truss joints. Code numbers are deemed sufficient
- * All connection and hold down details between trusses, girders, beams and supports
- * The type of roof covering, ceiling and any other loads taken into account in the design

The dimensions in the descriptions of trusses are nominal and verification measurements are to be obtained from site before design or fabrication commences, and must be designed in accordance with the environmental conditions of the area

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GENERAL

The following schedule of prices includes all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to the site and offloading

The trusses must be suitable stored and protected on site as directed by the Secretary or his Representative

ERECTION

The trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the Manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research of as detailed by the designer of the SABS Code of Practice: "The Design, Manufacture and Erection of Timber Roof Trusses"

TRUSS LOADING

The trusses shall be designed for:

- * Roof Cover: 0,53mm Metal roof sheeting
- * Max Purlin centres: 1250mm
- * Ceilings: Plasterboard ceilings
- * Overhang: Min 600mm

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TRUSSES

a. All the roof trusses to be constructed as shown on the roof plans.

b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions

c. Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut

d. Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to the effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable. The lump sum price of the roof trusses and purlins or battens (bottom purlin or tilting fillet to be wrought) shall include for the design and supervision by a Registered / Professional Engineer and for all necessary runners, overhangs wrought all round and trimmed and splay cut as required, braces, hoisting and fixing, etc., but shall exclude fixing brackets and hurricane clips, wall plates, fascia, barge boards, roof coverings, purlins, etc. which are all separately measured

e. The tenderer's attention is drawn to the fact that the description of the trusses only represents the overall size (fascia to fascia) and not the required design

f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR

g. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing

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PREFABRICATED ROOF TRUSSES, ETC.

Plate nailed pitched timber roof construction

Sawn Softwood

- | | | | Item |
|---|---|--|------|
| 1 | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations to suit roof area approximate size 456m ² (measured on flat floor area inclusive of overhangs, etc) | | |

Sawn softwood:

- | | | | |
|---|------------------------|---|-----|
| 2 | 38 x 114mm Wall plate. | m | 66 |
| 3 | 50 x 70mm purlins. | m | 528 |

Sundries:

- | | | | |
|---|--|----|-----|
| 4 | TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). | No | 587 |
|---|--|----|-----|

EAVES, VERGES, ETC

Pressed fibre-cement:

- | | | | |
|---|--|----|----|
| 5 | 12 x 225mm EVERITE NUTEC medium density fibre-cement fascia board (product no (041-202) or equal approved. Aluminium H-Profile fascia joiners (product no 685-1950. Drill and for fix with Hot dipped galvanised screws and washers. | m | 66 |
| 6 | Extra on last for splay cut end. | No | 4 |
| 7 | 80 x 200mm EVERITE NUTEC fibre cement socketless Barge boards (Product no 521-731) or equal approved. Aluminium H-profile barge board joiners(product No 685-187). drill for and fix with Hot dipped galvanise screws and washers. 76 x 50mm trimmer batten fixed underside of purlin ends for barge board fixing. | m | 20 |
| 8 | Extra on last for splay cut end. | No | 6 |

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DOORS ETC

**40mm thick Saligna 'Blaco' Ledge and brace
battered door with 40 x 110mm styles and top rail,
20 x 150mm middle ledge, 20 x 225mm bottom ledge
and 20 x 110mm braces:**

9 813 x 2032mm high single door.

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<u>SECTION 2</u> <u>BILL No. 4</u> <u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u> <u>MODEL PREAMBLES</u> 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. <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>Descriptions:</u> Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete. 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.			
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Section 2 Bill No. 4 Ceilings, Partitions and Access Flooring			

NAILED UP CEILINGS

4mm "Everite Nutec" or equal approved fibre-cement boards with 40 x 10mm hardwood cover strips

- | | | | |
|---|--|----|-----|
| 1 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc. | m2 | 256 |
| 2 | Extra over ceiling for forming trap door size 635 x 635mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers. | No | 4 |

Cornice

- | | | | |
|---|--|---|-----|
| 3 | Everite Nucornice Nu-Cornice Plain 75 or equal approved, overall size 55 x 55mm high, fixed to wall and ceiling using Nucornice water-based adhesive, leaving 2mm vertical joints between sections. All vertical joints to be sealed with Nucornice adhesive prior to painting, all in accordance with the manufacturer's recommendations. | m | 128 |
|---|--|---|-----|

100mm thick Aerolite or equal approved non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer's recommendations.

- R-value: 2,50m² K/W
- Thermal conductivity: 0,04 W/m²/K

- | | | | |
|---|---|----|-----|
| 4 | 100mm Insulation laid between roof trusses and on top of brandering, etc. | m2 | 256 |
|---|---|----|-----|

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Ceilings, Partitions and Access Flooring

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<u>BILL No. 5</u>				
<u>IRONMONGERY</u>				
<u>MODEL PREAMBLES</u>				
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.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Dorma or equal approved Hinges:</u>				
1	102 x75 x 3mm Two Ball Bearing Butt Hinge (Stainless Steel) - Code DBB-SS-009	Pairs	4.0	
<u>Union or equal approved Locks:</u>				
2	4 Lever mortice lockset with satin-chrome plated handles Code - CZ682-24-61CH	No	4	
<u>Union or equal approved Door Stop</u>				
3	Door stop - Code - AL8730AS	No	4	
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
4	2400 x 1200mm Magnetic white board or equal approved fixed to walls with an approved Aluminium frame, plugged and screwed to walls with counter sunk brass screws and cupped washers.	No	4	
5	Pinning board 4800 x 1200mm High overall of 9mm "Van Dyk" or equal approved pinning board glued to 3mm masonite back plugged and screwed to wall and framed with 70 x 22mm rebated wrought Saligna frame with one vertical middle rail.	No	4	
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Section 2 Bill No. 5 Ironmongery				

[illegible]

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 7</u>			
<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
<u>MODEL PREAMBLES</u>			
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.			
<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>Copper pipes:</u>			
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.			
<u>Chasing:</u>			
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.			
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Plumbing and Drainage (Provisional)			

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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Bill No. 7
Plumbing and Drainage (Provisional)

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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.

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Bill No. 7
Plumbing and Drainage (Provisional)

R

RAINWATER DISPOSAL:

Seamless aluminium gutters

1	100 x 75mm Seamless aluminium OGEE gutter with baked enamel finish fixed to manufactures specification.	m	66
2	Extra 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 75mm fluted Aluminium downpipe with baked enamel finish fixed to suppliers specification.	m	12
5	Extra over rainwater downpipe for bend.	No	4

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	<u>BILL No. 8</u>			
	<u>GLAZING</u>			
	<u>MODEL PREAMBLES</u>			
	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.			
	<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>			
	All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety flazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.			
	<u>6.38mm clear safety glass secured into galvanized window with a compatible UV resistant sealant</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	27	
2	Issue of Glazing Certificate.		Item	
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	Glazing			
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[illegible]

ON FIBRE-CEMENT BOARD SURFACES

Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved coats of finishing paint or equal approved. All joints to be taped, skimmed and rubbed to a smooth finish.

3	Ceilings and cornices.	m2	256
4	Fascias and barge boards.	m2	38

ON METAL SURFACES

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

5	Windows with burglar bars (both sides measured).	m2	59
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ON WOOD

Apply one coat DULUX galvanised iron primer, one coat of DULUX universal undercoat followed by two coats of DULUX Gloss enamel paint or equal approved.

6	On doors.	m2	14
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Three coats superior quality clear gloss varnish

7	On doors	m2	14
8	Skirtings, rails, frames, etc not exceeding 300mm girth	m	128

Prepare and brush surface to remove all loose contaminants and apply two coats of "Carbolineum" wood preserver or equal approved

9	On timber trusses and purlins.	m2	44
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Section 2
Bill No. 9
Paintwork

POLISH, SEALERS, ETC

Scrub with a diluted neutral detergent complying with SABS 825 and thoroughly rinse, Apply three coats of a water based floor dressing complying to SABS 1042 on:

10	Vinyl tile flooring	m2	256
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Paintwork

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SECTION SUMMARY - BUILDING WORKS (RENOVATIONS TO FOUR CLASS

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1	ALTERATIONS (PROVISIONAL) (RENOVATIONS TO FOUR CLASSROOM BLOCK)	39	
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PART_C – CONSTRUCTION OF NEW ABLUTION FACILITIES

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<u>SECTION 1</u> <u>BILL No. 1</u> <u>DEMOLITIONS</u> <u>MODEL PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained <u>Explosives</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated. <u>General</u> Water supply pipes and other piping in ground 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. Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.			
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Section 1 Bill No. 1 Demolitions			

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.

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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Demolitions

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DESLUDGING EXISTING TOILETS

- | | | | |
|---|--|----|------|
| 1 | Clean out pit latrine by desludging including removal of all debris and waste including solid waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat | No | 7 |
| 2 | Issue of Certificate of Waste Disposal. | | Item |

DEMOLISHING AND REMOVING

- | | | | |
|---|---|----|------|
| 3 | Clean/empty existing 1.2mx1.2mx3m high old plastic toilets by means of desludging, remove the same away from the site to a dump site located by the contractor. The entire procedure shall be completed in strict accordance with OHS regulations. | No | 10 |
| 4 | Demolish pit latrine structure comprising of brick/block work with corrugated roof sheeting, approximate size 7 x 3,2m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured). | No | 1 |
| 5 | Cart away rubble from demolitions and dispose off site. | | Item |
| 6 | Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density. | m3 | 42 |
| 7 | Allow for compaction tests by an approved laboratory to determine density of filling material. | No | 12 |

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	Carried to Collection		R	
	Section 2 Bill No. 1 Earthworks (Provisional)			

Dewatering of excavations:

The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Imported fill:

"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"

Classification of excavated material

"Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.

"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness.

"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0,03m³ in volume.

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Bill No. 1
Earthworks (Provisional)

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EXCAVATION OTHER THAN BULK

Excavation in earth not exceeding 2m deep:

1	Trenches.	m3	79
	A0 : 21 A1 : 16 A6 : 20 AD : 22		
2	Holes.	m3	211
	A0 : 39 A1 : 53 A6 : 47 AD : 71		
3	Reduced levels under floors.	m3	32
	A0 : 8 A1 : 8 A6 : 7 AD : 10		

Extra over trench and hole excavations in earth for excavation in:

4	Soft rock.	m3	32
	A0 : 32 A1 : 0 A6 : 0 AD : 0		
5	Hard rock.	m3	16
	A0 : 16 A1 : 0 A6 : 0 AD : 0		

Extra over all excavations for carting away:

6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	307
	A0 : 63 A1 : 74 A6 : 70 AD : 99		

Risk of collapse of excavations:

7	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	225
	A0 : 59 A1 : 45 A6 : 57 AD : 64		
8	Ditto, but from ground level to exceeding 1,5m.	m2	187
	A0 : 39 A1 : 47 A6 : 44 AD : 58		

Keeping excavations free of water:

9	Keeping excavations free from mud and all water including subterranean sources.	Item	
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EARTH FILLING, ETC.

Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:

10	Backfilling to trenches, holes, etc.	m3	3
	A0 : 1 A1 : 1 A6 : 1 AD : 1		

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R

11	Under floors, steps, pavings, trenches, etc. A0 : 4 A1 : 5 A6 : 4 AD : 6 <u>Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to trenches, holes, etc.</u>	m3	19
12	Under floors, steps, pavings, trenches, etc. A0 : 20 A1 : 21 A6 : 21 AD : 28 <u>Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to holes, trenches etc.</u>	m3	90
13	Under floors, steps, pavings, trenches, etc. A0 : 10 A1 : 11 A6 : 10 AD : 14	m3	45
14	Backfilling to holes, trenches, etc. A0 : 10 A1 : 9 A6 : 10 AD : 12 <u>Coarse river sand filling supplied by the contractor:</u>	m3	41
15	Under floors etc. A0 : 2 A1 : 3 A6 : 3 AD : 3 <u>Compaction of surfaces:</u>	m3	12
16	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density. A0 : 46 A1 : 53 A6 : 48 AD : 68 <u>Prescribed density tests on filling:</u>	m2	215
17	Allow for compaction tests by an approved laboratory to determine density of filling material. A0 : 8 A1 : 10 A6 : 8 AD : 11	No	37

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SOIL POISONING

**Approved brand of anti-termite soil poison applied
by a Registered Pest Control company and
guaranteed against termite infestation for ten years:**

18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	125
	A0 : 29 A1 : 31 A6 : 28 AD : 37		
19	To bottoms and sides of trenches, holes, etc.	m2	588
	A0 : 137 A1 : 132 A6 : 142 AD : 177		

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	Carried to Collection		R	
	Section 2 Bill No. 2 Concrete, Formwork and Reinforcement			

Formwork:

Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.

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Concrete, Formwork and Reinforcement

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**UNREINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

15Mpa/19mm Concrete

1	Surface blinding under footings and bases.	m3	4
	A0 : 1 A1 : 1 A6 : 1 AD : 1		

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/20mm concrete:

2	Strip footings to walls.	m3	17
	A0 : 5 A1 : 3 A6 : 4 AD : 5		

REINFORCED CONCRETE

30MPa/20mm concrete:

3	Surface beds on waterproofing.	m3	21
	A0 : 5 A1 : 5 A6 : 5 AD : 6		
4	Suspended Slabs.	m3	15
	A0 : 3 A1 : 4 A6 : 3 AD : 5		
5	Ground base slabs.	m3	18
	A0 : 3 A1 : 5 A6 : 4 AD : 6		
6	Cavity walls.	m3	19
	A0 : 4 A1 : 5 A6 : 4 AD : 6		

TEST BLOCKS

Test blocks:

7	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	24
	A0 : 6 A1 : 6 A6 : 3 AD : 9		

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FINISHING TOP SURFACE OF CONCRETE

Finishing top surfaces of concrete smooth with a wood float:

8	Surface beds, suspended slabs, ground slabs, etc.	m2	339	
	A0 : 75 A1 : 84 A6 : 76 AD : 105			

Finishing top surfaces of concrete smooth with a steel float:

9	Surface beds, suspended slabs, etc.	m2	70	
	A0 : 13 A1 : 17 A6 : 16 AD : 25			

Charmfers at corners

10	19 x 19mm triangular fillet at corners formed of unreinforced concrete steel trowelled.	m	71	
	A0 : 15 A1 : 17 A6 : 17 AD : 23			

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough Formwork to Sides:

11	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	80	
	A0 : 17 A1 : 20 A6 : 19 AD : 25			

Permanent Formwork:

12	Soffit of slab over pit.	m2	70	
	A0 : 13 A1 : 17 A6 : 16 AD : 25			

Extra on permanent formwork for boxing or blocking in or boxing out to form:

13	835mm diameter circular opening through 370mm thick slab.	No	8	
	A0 : 2 A1 : 2 A6 : 2 AD : 2			
14	450mm Diameter opening through 255mm thick slab.	No	5	
	A0 : 0 A1 : 4 A6 : 1 AD : 0			
15	200mm Diameter opening through 255mm thick slab.	No	12	
	A0 : 4 A1 : 0 A6 : 0 AD : 8			
16	150mm Diameter opening through 255mm thick slab.	No	4	
	A0 : 0 A1 : 0 A6 : 4 AD : 0			

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SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth Formwork to Sides:

17	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	34		
	A0 : 9 A1 : 8 A6 : 7 AD : 10				

MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:

18	12mm Joints not exceeding 300mm high (Provisional).	m	123		
	A0 : 32 A1 : 25 A6 : 31 AD : 35				

Saw cut joints:

19	6 x 40mm Saw cut joints in top of concrete (Provisional).	m	185		
	A0 : 49 A1 : 37 A6 : 47 AD : 53				

REINFORCEMENT (PROVISIONAL)

20	High tensile steel reinforcement bars to structural concrete work.	t	4.82		
	A0 : 0.64 A1 : 0.63 A6 : 0.68 AD : 2.87				

Fabric reinforcement:

21	REF. 888 fabric reinforcement in concrete footings, walls, base slabs etc.	m ²	508		
	A0 : 102 A1 : 126 A6 : 115 AD : 165				

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	Carried to Collection		R	
	Section 2 Bill No. 3 Masonry			

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

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. 3
Masonry

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BRICKWORK IN FOUNDATIONS
(PROVISIONAL)

Brickwork consisting of solid bricks with 10.5 MPa minimum nominal compressive strength in Class I mortar with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in mortar mix (Cement to be 42.5N all-purpose cement):

1	One brick walls.	m2	95
	A0 : 25 A1 : 19 A6 : 24 AD : 27		
2	345mm thick cavity brick walls made of two leafs of 110mm wall with 135mm concrete fill (concrete elsewhere measured).	m2	133
	A0 : 27 A1 : 33 A6 : 31 AD : 43		

BRICKWORK AND BLOCKWORK SUNDRIES

Galvanized brickwork reinforcement

3	115mm Wide reinforcement built in horizontally	m	742
	A0 : 146 A1 : 147 A6 : 177 AD : 271		
4	230mm Wide reinforcement built in horizontally.	m	1 187
	A0 : 286 A1 : 352 A6 : 256 AD : 293		
5	Ditto, but in foundations (Provisional).	m	679
	A0 : 178 A1 : 136 A6 : 171 AD : 194		

Cramps, ties, etc:

6	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	94
	A0 : 25 A1 : 23 A6 : 20 AD : 26		

Air bricks etc:

7	229 x 152mm terracotta clay vermin proof air brick	No	16
	A0 : 4 A1 : 4 A6 : 4 AD : 4		

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

8	To walls (Provisional).	m2	293
	A0 : 72 A1 : 73 A6 : 68 AD : 81		

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Masonry

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<u>Samples</u>							
9	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same position to be paved as per given specifications.			Item			
<u>FACE BRICK</u>							
<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>							
10	Extra over brickwork for face brickwork externally. A0 : 4 A1 : 5 A6 : 4 AD : 6	m2	19				
11	Extra over for face brick in foundations (Provisional). A0 : 25 A1 : 19 A6 : 24 AD : 27	m2	95				
12	Half brick wall in beam filling pointed one side including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar. A0 : 6 A1 : 6 A6 : 6 AD : 8	m2	26				
13	One brickwall pointed on both sides. A0 : 88 A1 : 107 A6 : 78 AD : 89	m2	362				
14	Half brickwall pointed on both sides. A0 : 16 A1 : 11 A6 : 22 AD : 38	m2	86				
15	Fair raking cutting. A0 : 9 A1 : 9 A6 : 9 AD : 9	m	36				
<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>							
16	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under. A0 : 6 A1 : 7 A6 : 6 AD : 9	m	28				
17	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides. A0 : 7 A1 : 8 A6 : 7 AD : 10	m	32				
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Masonry

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	<u>SECTION 2</u> <u>BILL No. 4</u> <u>WATERPROOFING</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 10 - Male Ablutions A1 - DWG 04 - Staff Ablutions A6 - DWG 07 - Grade R Ablutions AD - DWG 17 - Female Ablutions <u>MODEL PREAMBLES</u> 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. <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>Waterproofing</u> Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).			
	Carried to Collection		R	
	Section 2 Bill No. 4 Waterproofing			

The product and its methodology for application must be approved by Principal Agent before it is used.

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.

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.

Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.

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Section 2
Bill No. 4
Waterproofing

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DAMPPROOFING OF WALLS AND FLOORS

One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':

- | | | | |
|---|--|----|-----|
| 1 | Under surface beds, bases, etc. | m2 | 215 |
| | A0 : 46 A1 : 53 A6 : 48 AD : 68 | | |

One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:

- | | | | |
|---|--|----|----|
| 2 | Below walls, sills, etc. | m2 | 13 |
| | A0 : 3 A1 : 3 A6 : 3 AD : 4 | | |

JOINT SEALANTS ETC

Clear Neutral silicone sealant:

- | | | | |
|---|--|---|-----|
| 3 | In joint sealing and pointing all round external window and door frames. | m | 230 |
| | A0 : 47 A1 : 55 A6 : 52 AD : 77 | | |

Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc

- | | | | |
|---|---|---|-----|
| 4 | 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional). | m | 309 |
| | A0 : 81 A1 : 62 A6 : 78 AD : 88 | | |

WATERPROOFING TO PIT WALLS

Coprox waterproofing / ABE dura slurry or similar approved product to plastered walls, subject to approval by the Principal Agent prior to application.

- | | | | |
|---|---|----|-----|
| 5 | On plastered wall surfaces including 100mm overlap at the base slab | m2 | 140 |
| | A0 : 28 A1 : 34 A6 : 33 AD : 45 | | |

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Waterproofing

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	<u>SECTION 2</u> <u>BILL No. 5</u> <u>ROOF COVERINGS</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 10 - Male Ablutions A1 - DWG 04 - Staff Ablutions A6 - DWG 07 - Grade R Ablutions AD - DWG 17 - Female Ablutions <u>MODEL PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Flashings</u> 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 <u>Quality Assurance</u> The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System			
	Carried to Collection		R	
	Section 2 Bill No. 5 Roof Coverings Etc.			

Guarantee

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.

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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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. 5
Roof Coverings Etc.

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ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

0.50mm 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 mono-pitch.	m2	172	
	A0 : 40 A1 : 42 A6 : 39 AD : 51			

0.50mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:

2	Mono pitched ridge capping with 225mm lapping secured onto the roof.	m	39	
	A0 : 9 A1 : 10 A6 : 9 AD : 11			

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	172	
	A0 : 40 A1 : 42 A6 : 39 AD : 51			

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Roof Coverings Etc.

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	<u>SECTION 2</u> <u>BILL No. 6</u> <u>CARPENTRY & JOINERY</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 10 - Male Ablutions A1 - DWG 04 - Staff Ablutions A6 - DWG 07 - Grade R Ablutions AD - DWG 17 - Female Ablutions <u>MODEL PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>FIXING</u> All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.			
	Carried to Collection		R	
	Section 2 Bill No. 6 Carpentry and Joinery			

CARPENTRY

Sawn softwood:

1	38 x 152mm Wall plate.	m	77		
	A0 : 18 A1 : 19 A6 : 17 AD : 23				
2	50 x 76mm Purlins.	m	309		
	A0 : 72 A1 : 76 A6 : 70 AD : 91				
3	50 x 76mm Bracing.	m	48		
	A0 : 12 A1 : 12 A6 : 12 AD : 12				
4	38 x 152mm Rafters.	m	186		
	A0 : 44 A1 : 44 A6 : 44 AD : 53				

Sundries:

5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	185		
	A0 : 45 A1 : 45 A6 : 40 AD : 55				

EAVES, VERGES, ETC

"Everite Nutec" or equal approved fibre cement

6	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	39		
	A0 : 9 A1 : 10 A6 : 9 AD : 11				
7	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	36		
	A0 : 9 A1 : 9 A6 : 9 AD : 9				

DOORS ETC

SANS Approved meranti:

8	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1).	No	5		
	A0 : 1 A1 : 2 A6 : 1 AD : 1				
9	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	2		

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Carpentry and Joinery

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10	44mm Braced and ledged door size 862 x 1000mm (D3). A0 : 0 A1 : 0 A6 : 4 AD : 0	No	4
11	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4). A0 : 4 A1 : 3 A6 : 4 AD : 8	No	19
<u>FRAMED FRAMES, ETC</u>			
<u>Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:</u>			
12	50 x 108mm rebated meranti frame . A0 : 23 A1 : 23 A6 : 23 AD : 41	m	110
<u>Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:</u>			
13	50 x 108mm rebated meranti frame . A0 : 0 A1 : 5 A6 : 13 AD : 0	m	18

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	<u>SECTION 2</u> <u>BILL No. 7</u> <u>IRONMONGERY</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 10 - Male Ablutions A1 - DWG 04 - Staff Ablutions A6 - DWG 07 - Grade R Ablutions AD - DWG 17 - Female Ablutions <u>MODEL PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Keys/Locks</u> Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys <u>Trade Names</u> Where trade names are specified other ironmongery approved by the Principal Agent may be used <u>Fixing</u> Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
	Carried to Collection		R	
	Section 2 Bill No. 7 Ironmongery			

HINGES:

1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	30.0		
	A0 : 5.0 A1 : 6.0 A6 : 10.0 AD : 9.0				

LOCKS

2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	7		
	A0 : 1 A1 : 3 A6 : 2 AD : 1				
3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	23		
	A0 : 4 A1 : 3 A6 : 8 AD : 8				

HANDLES

4	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	26		
	A0 : 5 A1 : 6 A6 : 6 AD : 9				

Sundries:

5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	19		
	A0 : 4 A1 : 3 A6 : 4 AD : 8				
6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	30		
	A0 : 5 A1 : 6 A6 : 10 AD : 9				

SIGN PLATES:

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

7	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	7		
	A0 : 1 A1 : 3 A6 : 2 AD : 1				

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Ironmongery

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SUNDRIES

Halcast or equal approved"

8	Thiefproof toilet roll holder plugged. A0 : 4 A1 : 4 A6 : 5 AD : 8	No	21		
---	--	----	----	--	--

Grade 304 stainless steel ware:

9	32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. A0 : 0 A1 : 1 A6 : 1 AD : 0	No	2		
---	--	----	---	--	--

10	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. A0 : 0 A1 : 1 A6 : 1 AD : 0	No	2		
----	---	----	---	--	--

Satin Grey Plastics or equal approved

11	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, firmly screwed against the wall. A0 : 0 A1 : 3 A6 : 1 AD : 8	No	12		
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<u>SECTION 2</u> <u>BILL No. 8</u> <u>METALWORK</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 10 - Male Ablutions A1 - DWG 04 - Staff Ablutions A6 - DWG 07 - Grade R Ablutions AD - DWG 17 - Female Ablutions <u>MODEL PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> 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 <u>ALUMINIUM WINDOWS</u> All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA. All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction. All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.			
Carried to Collection		R	
Section 2 Bill No. 8 Metalwork			

Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:

- | | | | |
|---|---|----|----|
| 1 | Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01. | No | 46 |
| | A0 : 10 A1 : 11 A6 : 10 AD : 15 | | |

HOT DIP GALVANIZED STEEL GATES

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

Outward opening steel security gate consisting of 12mm diameter steel rod infill placed at 109mm centres welded to 25 x 25 x 2mm galvanised mild steel frame, hung with one pair of galvanised mild steel hinges to 25 x 25 x 2mm gate frame fixed to brickwork all complete with locks, handles, ironmongery etc:

- | | | | |
|---|---|----|---|
| 2 | Security gate size 900 x 2050mm high (G1). | No | 4 |
| | A0 : 1 A1 : 1 A6 : 1 AD : 1 | | |
| 3 | Security double gate size 1800 x 2050mm high. | No | 1 |
| | A0 : 0 A1 : 1 A6 : 0 AD : 0 | | |

LOCKABLE MANHOLE COVERS

- | | | | |
|---|---|----|---|
| 4 | 600mm diameter lockable circular type M4A product or similar approved manhole SANS 1882 medium duty Dough Moulding compound 4A hinged lid and frame cast into concrete upstand. | No | 8 |
| | A0 : 2 A1 : 2 A6 : 2 AD : 2 | | |

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Metalwork

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Metalwork

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Metalwork

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Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL No. 9</u> <u>PLASTERING</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 10 - Male Ablutions A1 - DWG 04 - Staff Ablutions A6 - DWG 07 - Grade R Ablutions AD - DWG 17 - Female Ablutions <u>MODEL PREAMBLES</u> 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. <u>SCREEDS</u> <u>Untinted granolithic, on concrete:</u>			
1	30mm Thick on floors and landings. A0 : 58 A1 : 62 A6 : 56 AD : 74	m2	250	
	<u>INTERNAL PLASTER (PIT WALLS)</u> <u>15mm thick of 1:4 sand cement plaster with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in plaster mix</u>			
2	On walls. A0 : 27 A1 : 33 A6 : 31 AD : 43	m2	133	
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Section 2
Bill No. 10
Plumbing and Drainage (Provisional)

TAPS, VALVES, ETC

Solid Cast brass taps, valves, etc:

6	"Cobra KM2-200" or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	16
	A0 : 2 A1 : 4 A6 : 4 AD : 6		
7	15mm Ball-o-stop valve.	No	17
	A0 : 2 A1 : 5 A6 : 4 AD : 6		
8	22mm Non Return valve.	No	16
	A0 : 2 A1 : 4 A6 : 4 AD : 6		

WASTE UNIONS ETC

Outlets, traps, etc:

9	40mm 342/50 CP bottle trap.	No	1
	A0 : 0 A1 : 1 A6 : 0 AD : 0		
10	40mm Code 316 chrome plated unslotted waste outlet.	No	16
	A0 : 2 A1 : 4 A6 : 4 AD : 6		
11	40mm Rubber "P" or "S" trap	No	16
	A0 : 2 A1 : 4 A6 : 4 AD : 6		

SANITARY FITTINGS

Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:

12	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	5
	A0 : 0 A1 : 4 A6 : 1 AD : 0		
13	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	12
	A0 : 4 A1 : 0 A6 : 0 AD : 8		
14	Bambi Longdrop VIP Pit pedestal for children complete with C/W flap. size: 282 x 360 x 300mm.	No	4
	A0 : 0 A1 : 0 A6 : 4 AD : 0		

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Section 2
Bill No. 10
Plumbing and Drainage (Provisional)

R

Vaal or equal approved:

15	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
	A0 : 0 A1 : 1 A6 : 0 AD : 0		
16	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	16
	A0 : 2 A1 : 4 A6 : 4 AD : 6		

Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:

17	SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet.	No	2
	A0 : 2 A1 : 0 A6 : 0 AD : 0		

SANITARY PLUMBING

PVC waste or vent pipes and fittings:

18	50mm Waste pipe.	m	125
	A0 : 25 A1 : 35 A6 : 25 AD : 40		
19	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	45
	A0 : 8 A1 : 12 A6 : 10 AD : 15		
20	110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres.	m	96
	A0 : 16 A1 : 24 A6 : 20 AD : 36		

Extra for:

21	50mm Bend.	No	37
	A0 : 8 A1 : 9 A6 : 8 AD : 12		
22	50mm Access bend.	No	16
	A0 : 3 A1 : 3 A6 : 3 AD : 7		

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Section 2
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R

23	Black Whirlybird with insect-proof netting inside, to fit on 110mm vent pipe. A0 : 4 A1 : 6 A6 : 5 AD : 9	No	24	
<u>WATER SUPPLIES</u>				
<u>Polycop pipes:</u>				
Pipes shall be class 10.				
<u>Fixing of pipes</u>				
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				
<u>Polycop pipes chased in walls:</u>				
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.				
<u>Reducing fittings:</u>				
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.				
<u>Class 10 Polycop pipes:</u>				
24	15mm Pipe chased into brick walls. A0 : 17 A1 : 30 A6 : 27 AD : 23	m	97	
25	22mm Pipe chased into brick walls. A0 : 8 A1 : 10 A6 : 12 AD : 8	m	38	
<u>Extra over polycop pipes for compression fittings:</u>				
26	15mm Fittings. A0 : 17 A1 : 24 A6 : 26 AD : 19	No	86	
27	22mm Fittings. A0 : 10 A1 : 15 A6 : 18 AD : 10	No	53	
Carried to Collection				
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COLLECTION

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**Item
No**

SECTION 2

BILL No. 11

PAINTWORK

Quantity Split:

Note that the total quantity per each item is split into the various buildings and appears below each description as follows:

A0 - DWG 10 - Male Ablutions
A1 - DWG 04 - Staff Ablutions
A6 - DWG 07 - Grade R Ablutions
AD - DWG 17 - Female Ablutions

MODEL PREAMBLES

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.

SUPPLEMENTARY PREAMBLES

Trade Names

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

Carried to Collection

Section 2
Bill No. 11
Paintwork

R

PAINTWORK ETC TO NEW WORK

ON WOOD

Two coats superior quality clear gloss varnish on smooth sanded down surfaces:

1	On doors	m2	94
	A0 : 16 A1 : 21 A6 : 28 AD : 29		
2	On door frames	m2	29
	A0 : 5 A1 : 6 A6 : 8 AD : 9		

Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:

3	On doors	m2	11
	A0 : 11 A1 : 0 A6 : 0 AD : 0		
4	On door frames	m2	3
	A0 : 3 A1 : 0 A6 : 0 AD : 0		

Prepare and apply two coats carbolenium on:

5	On exposed timbers.	m2	28
	A0 : 7 A1 : 7 A6 : 7 AD : 8		

ON FIBRE-CEMENT

Prepare and apply two coats pure acrylic roof paint on:

6	On fascias and barge boards.	m2	20
	A0 : 5 A1 : 5 A6 : 5 AD : 6		

ON PVC VENT PIPE

Prepare and apply two coats black PVA paint:

7	Vent Pipes	m2	90
	A0 : 15 A1 : 23 A6 : 19 AD : 34		

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Paintwork

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Section 2

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Paintwork

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Section 2

SECTION SUMMARY - BUILDING WORKS (NEW ABLUTION FACILITIES)

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Amount

Earthworks (Provisional)

81

Concrete, Formwork and Reinforcement

87

Masonry

92

Waterproofing

96

Roof Coverings Etc.

101

Carpentry and Joinery

105

Ironmongery

109

Metalwork

112

Plastering

113

Plumbing and Drainage (Provisional)

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Paintwork

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Section 2

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL No. 1</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>MODEL PREAMBLES</u>			
	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.			
	<u>THE FOLLOWING IN PLATFORMS, ETC.</u>			
	<u>Site Clearance, ETC</u>			
1	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	650	
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	650	
	<u>Open face excavation not exceeding 2m deep:</u>			
3	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m3	180	
	<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	130	
	<u>Earth filling from excavated material</u>			
5	Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.	m3	88	
	Carried to Collection			
	Section 3			
	Bill No. 1			
	External Works			
			R	

	<u>Filling supplied by the contractor to form platforms</u>			
6	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	38	
	<u>Surface Preparation:</u>			
7	Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.	m2	650	
	<u>Prescribed density tests on filling:</u>			
8	Modified AASHTO Density test.	No	4	
	<u>THE FOLLOWING IN WALKWAYS</u>			
	<u>Excavation not exceeding 2m deep</u>			
9	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	168	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
10	Off site to a dumping site to be found by the Contractor.	m3	168	
	<u>Filling supplied by the contractor under walkways</u>			
11	G7 Base course material compacted to 98% Mod AASHTO density	m3	56	
12	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	56	
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>			
13	Under floors,etc.	m2	374	
	Carried to Collection			R
	Section 3			
	Bill No. 1			
	External Works			

	<u>Prescribed density tests on filling:</u>				
14	In-situ dry density test.	No	3		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
15	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	374		
	<u>Concrete Paving Blocks</u>				
	<u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u>				
16	Paving to walkway areas, etc laid to falls.	m2	374		
	<u>Kerbing</u>				
	<u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.</u>				
17	Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	75		
18	Ditto but circular on plan.	m	7		
Carried to Collection				R	
Section 3					
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External Works					

THE FOLLOWING IN ONE BRICK WALL
(GARDEN WALL)

Excavation in earth not exceeding 2m deep:

19	Trenches.	m3	62	
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Extra over all excavations for carting away:

20	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	32	
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Risk of collapse of excavations:

21	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	177	
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Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:

22	Backfilling to trenches, holes, etc.	m3	30	
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Filling supplied by the contractor under strip footing

23	G7 Base course material compacted to 98% Mod AASHTO density	m3	13	
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24	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	13	
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Compaction of surfaces

25	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	86	
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25 Mpa/19mm Concrete

26	Strip footings.	m3	17	
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Carried to Collection

R

Section 3
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External Works

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STORMWATER CHANNELS

Excavation not exceeding 2m deep

34	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	39
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

35	Off site to a dumping site to be found by the Contractor.	m3	39
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Filling supplied by the contractor under channels

36	G7 Base course material compacted to 98% Mod AASHTO density	m3	13
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37	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	13
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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.

38	700 x 80mm thick V' channel 150mm deep 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	99
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39	Extra for 700mm angle	No	4
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40	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	4
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THE FOLLOWING IN DISABLED ACCESS

SCREEN WALL

Carried to Collection

R

Section 3
Bill No. 1
External Works

	<u>Excavation in earth not exceeding 2m deep:</u>				
41	Trenches.	m3	5		
	<u>Extra over all excavations for carting away:</u>				
42	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	5		
	<u>Risk of collapse of excavations:</u>				
43	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	14		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
44	Backfilling to trenches, holes, etc.	m3	4		
	<u>Filling supplied by the contractor under strip footing</u>				
45	G7 Base course material compacted to 98% Mod AASHTO density	m3	1		
46	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	1		
	<u>Compaction of surfaces</u>				
47	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	7		
	<u>25 Mpa/19mm Concrete</u>				
48	Strip footings.	m3	1		
	<u>Test blocks:</u>				
49	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
Carried to Collection					R
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	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
57	Off site to a dumping site to be found by the Contractor.	m3	5		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
58	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
59	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2		
	<u>Coarse river sand filling supplied by the contractor:</u>				
60	Under floors etc.	m3	1		
	<u>Compaction of surfaces:</u>				
61	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	10		
	<u>Prescribed density tests on filling:</u>				
62	In-situ dry density test.	No	2		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
63	Ramps, Landings, etc.	m3	10		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
64	Surface beds, slabs, etc to falls and currents.	m2	10		
	<u>Test blocks:</u>				
65	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
Carried to Collection					R
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External Works

THE FOLLOWING IN ACCESS DRIVEWAY, ETC.

Excavation not exceeding 2m deep

70	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	135
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

71	Off site to a dumping site to be found by the Contractor.	m3	135
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Filling supplied by the contractor under driveways

72	G7 Base course material compacted to 98% Mod AASHTO density	m3	45
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73	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	45
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Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:

74	Under floors,etc.	m2	300
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Prescribed density tests on filling:

75	In-situ dry density test.	No	3
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Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:

76	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	300
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150-175mm diameter bollards

77	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	30
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R

THE FOLLOWING IN RETAINING WALLS, ETC.

Excavation in earth not exceeding 2m deep

78	Trenches.	m3	52
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Risk of collapse of excavations:

79	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	148
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Keeping excavations free of water:

80	Keeping excavations free of all water other than subterranean water.		Item
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

81	Off site to a dumping site to be found by the Contractor.	m3	52
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Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:

82	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	20
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Compaction of surfaces

83	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	52
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15Mpa/19mm unreinforced concrete

84	Surface blinding under footings and bases.	m3	3
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30Mpa/19mm reinforced concrete

85	Strip footings.	m3	10
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86	Cavity walls.	m3	13
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Carried to Collection

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Section 3
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External Works

	<u>Test blocks:</u>				
87	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>Fabric reinforcement:</u>				
88	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	118		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
89	One brickwalls in foundations	m2	37		
90	One brick walls	m2	81		
	<u>Brickwork reinforcement:</u>				
91	230mm Wide reinforcement built in horizontally.	m	422		
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
92	Extra over brickwork for face brickwork externally.	m2	81		
	<u>Brick-on-edge header course copings, sills, etc. of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>				
93	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	74		
	<u>Openings in Walls etc.</u>				
94	Leave or form 32mm weephole through one brick wall	No	111		
	<u>Membranes</u>				
95	"Geofabric filter blanket wrapped around stone with 300mm side and 300mm end laps, including stitching.	m2	89		
Carried to Collection				R	
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STORMWATER CHANNELS

Excavation not exceeding 2m deep

112	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	85
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

113	Off site to a dumping site to be found by the Contractor.	m3	85
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Filling supplied by the contractor under channels

114	G7 Base course material compacted to 98% Mod AASHTO density	m3	26
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115	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	26
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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.

116	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	244
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117	Extra for 700mm angle	No	4
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118	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	4
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Section 3
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External Works

R

	<u>Sundries:</u>				
119	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	50		
	<u>THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.</u>				
	<u>Excavation not exceeding 2m deep</u>				
120	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	54		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
121	Off site to a dumping site to be found by the Contractor.	m3	54		
	<u>Filling supplied by the contractor under floors, aprons, channels etc</u>				
122	G7 Base course material compacted to 98% Mod AASHTO density	m3	18		
123	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	18		
	<u>Coarse river sand filling supplied by the contractor:</u>				
124	Under floors etc.	m3	6		
	<u>Compaction of surfaces:</u>				
125	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	120		
	<u>Prescribed density tests on filling:</u>				
126	In-situ dry density test.	No	3		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
127	Surface beds cast in panels on waterproofing.	m3	18		
	Carried to Collection			R	
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	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
128	Surface beds, slabs, etc to falls and currents.	m2	120		
	<u>Test blocks:</u>				
129	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
130	12mm Joints not exceeding 300mm high.	m	60		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
131	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	60		
	<u>Fabric reinforcement:</u>				
132	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	120		
	<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>				
	<u>Site Clearance, ETC</u>				
133	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	332		
	<u>Excavation in earth not exceeding 2m deep:</u>				
134	Trenches.	m3	133		
	<u>Extra over all excavations for carting away:</u>				
135	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	133		
	<u>Risk of collapse of excavations:</u>				
136	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	531		
Carried to Collection				R	
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SOIL DRAINAGE

110mm Diameter perforated uPVC pipe surrounded with
300 x 300mm section of 20mm stone wrapped in A3
geotextile material.

142	110mm uPVC pipe.	m	166
	<u>Extra for:</u>		
143	110mm Tee.	No	3
144	110mm Y junction.	No	2

THE FOLLOWING IN SOAKAWAY

Site Clearance, Etc

145	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	9
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Excavation in earth not exceeding 2m deep:

146	Holes	m3	5
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Extra over all excavations for carting away

147	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	5
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Risk of collapse of excavations

148	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3.0m deep	m2	21
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Earth filling obtained from the excavations and/or
prescribed stock piles on site compacted to 90% Mod
AASHTO density

149	Backfilling to holes	m3	3
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Earth filling with stone material supplied by the contractor:

150	Stone (>63mm).	m3	2
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Membranes

151	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.
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m2

16

Keeping excavations free of water

152	Keeping excavations free of all water other than subterranean water
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Item

THE FOLLOWING IN RAINWATER TANKS AND STANDS

Excavation in earth not exceeding 2m deep:

153 | Trenches.

m3

24

Extra over all excavations for carting away:

154	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.
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m3

24

Risk of collapse of excavations:

155	Sides of trench and hole excavations not exceeding 1,5m deep.
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m2

8

Earth filling obtained from the excavations and/or
prescribed stock piles on site compacted to 93% MOD
AASHTO density:

156	Backfilling to trenches, holes, etc.
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m3

13

Filling supplied by the contractor under strip footing, floors etc.

157	G7 Base course material compacted to 98% Mod AASHTO density
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m3

7

158	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.
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m3

9

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	<u>Compaction of surfaces</u>				
159	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	24		
	<u>25 Mpa/19mm Concrete</u>				
160	Strip footings.	m3	7		
	<u>25 MPa/19mm Concrete:</u>				
161	Tank concrete slab.	m3	5		
	<u>Test blocks:</u>				
162	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	18		
	<u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>				
163	Surface beds, slabs, etc.	m2	24		
	<u>Rough Formwork to Sides:</u>				
164	Edges, risers, ends and reveals not exceeding 300mm high.	m	48		
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
165	Type 617 fabric reinforcement in concrete slabs.	m2	24		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
166	One brick walls.	m2	24		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
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167	One brick walls.	m2	29
	<u>Brickwork reinforcement:</u>		
168	230mm Wide reinforcement built in horizontally.	m	133
169	Ditto but in foundations.	m	147
	<u>FACE BRICK</u>		
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2(Cement to be 42.5N all-purpose cement):</u>		
170	Extra over brickwork for face brickwork externally.	m2	29
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>		
171	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	48
	<u>Plastic water tanks etc:</u>		
172	5000 Litre roto molded or equal approved plastic tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	6
173	Hole top of tank for 100mm pipe.	No	6
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THE FOLLOWING IN SECURITY FENCING, ETC

Site clearance

174	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	150
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Straining wires, fencing and razor wire:

175	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	150
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176	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	150
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177	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	150
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Posts for 1 800mm high security fence:

178	60mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	52
-----	--	----	----

179	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	12
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180	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	9
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181	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	52
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Section 3

Bill No. 1

External Works

FINAL SUMMARY		Page No	Amount
Section No			
1	DEMOLITIONS (PROVISIONAL) (NEW ABLUTION FACILITIES)	75	
2	BUILDING WORKS (NEW ABLUTION FACILITIES)	122	
3	EXTERNAL WORKS (PROVISIONAL) (NEW ABLUTION FACILITIES)	149	
SUB-TOTAL: PART_C - NEW ABLUTION FACILITIES			R
Carried to Main Final Summary			R

PART_D – PROVISIONAL SUMS

Item No	Quantity	Rate	Amount
<u>SECTION 1</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>ELECTRICAL INSTALLATION</u>			
1	Provide the sum of R250 000.00 for Electrical Installation at Classroom Block.	Item	250 000.00
2	Add: Mark-up	%	
<u>TEMPORARY TOILETS</u>			
3	Provide the sum of R 700 000 000.00 for rental of temporary plastic ablutions approximate size 1,2 x 1,2 x 2,3m high for the sole use by the school, for 10 months inclusive transportation and establishment on site and de-establishment on completion, servicing once a week. Ablutions are to be kept clean and in operation for the duration.	Item	700 000.00
4	Add: Mark-up	%	
Carried to Collection			R
Section 1 Bill No. 1 Provisional Sums			

BUDGETARY ALLOWANCES

The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:

- 5 Provide the sum of R65 000.00 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 full contract duration.
- 6 Add: Mark-up

Item

65 000.00

%

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Section No	MAIN FINAL SUMMARY	Page No		Amount
	PART_A - PRELIMINARIES	30	R	
	PART_B - RENOVATIONS TO EXISTING FOUR CLASSROOM BLOCK	71	R	
	PART_C - CONSTRUCTION OF NEW ABLUTION FACILITIES	150	R	
	PART_D - PROVISIONAL SUMS	153	R	
	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	