Item No		Quantity	Rate	Amount

SECTION 1

BILL No.1

PRELIMINARIES

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.

Carried to Collection R

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 1
Bill No. 1
Preliminaries

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:	Item		
	Indemnities (Clause 9).			
	Clause 9.1.1 is deleted and substituted with:			
	Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.			
9	F: ..... V: ..... T:	Item		
	Works insurances (Clause 10).			
10	F: ..... V: ..... T:	Item		
	Liability insurances (Clause 11).			
11	F: ..... V: ..... T:	Item		
	Effecting insurances (Clause 12).			
12	F: ..... V: ..... T:	Item		
	State Provisions (Clause 13).			
13	F: ..... V: ..... T:	Item		
	Security (Clause 14).			
14	F: ..... V: ..... T:	Item		
	EXECUTION			
	Preparation for and execution of the works (Clause 15).			
15	F: ..... V: ..... T:	Item		
	Access to the works (Clause 16).			
16	F: ..... V: ..... T:	Item		
	Contract instructions (Clause 17).			
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Section 1
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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: ..... **COMPLETION** Practical completion (Clause 24).	Item		
24	F: ..... V: ..... T: ..... Works completion (Clause 25).	Item		
25	F: ..... V: ..... T: ..... Final completion (Clause 26).	Item		
	Carried to Collection		R	

	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 accummulates 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.				
	Carried to Collection			R	

	Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.			
	Adjustment to the contract value (Clause 32).			
30	F: ..... V: ..... T:	Item		
	Recovery of expense and loss (Clause 33).			
31	F: ..... V: ..... T:	Item		
	Final account and final payment (Clause 34).			
32	F: ..... V: ..... T:	Item		
	Payment to other parties (Clause 35).			
33	F: ..... V: ..... T:	Item		
	CANCELLATION			
	Cancellation by Employer - Contractor's default (Clause 36).			
34	F: ..... V: ..... T:	Item		
	Cancellation by Employer - Loss and damage (Clause 37).			
35	F: ..... V: ..... T:	Item		
	Cancellation by Contractor - Employer's default (Clause 38).			
36	F: ..... V: ..... T:	Item		
	Cancellation - Cessation of the works (Clause 39).			
37	F: ..... V: ..... T:	Item		
	Carried to Collection		R	

	DISPUTE			
	Dispute Settlement (Clause 40)			
38	F: ..... V: ..... T:	Item		
	SUBSTITUTE PROVISIONS			
	State Clauses (Clause 41)			
39	F: ..... V: ..... T:	Item		
	CONTRACT VARIABLES			
	The Schedule: Pre-Tender information (Clause 42).			
40	F: ..... V: ..... T:	Item		
	CONTRACTING AND OTHER PARTIES (Clause 42.1)			
	Employer: The Mvula Trust			
	Postal Address: 67 Devereux Avenue, Vincent, East London			
	Telephone: 043 726 2255			
	Facsimile: 043 726 5967			
	Physical address: 67 Devereux Avenue, Vincent, East London			
	Principal Agent: The Mvula Trust			
	Postal Address: 67 Devereux Avenue, Vincent, East London			
	Telephone: 043 726 2255			
	Facsimile: 043 726 5967			
	Physical address: 67 Devereux Avenue, Vincent, East London			
	Carried to Collection		R	

CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

18 Weeks.

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Penalty amount per Calendar day is R 2000.00 to a maximum of 10% of contract amount

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

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

Clause 42.3.2

Supplementary insurance is required : Yes

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

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

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

DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

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	Clause 42.4.2 Number of construction document copies to be supplied to the Contractor free of charge :- 1 Clause 42.4.3 Bills of Quantities drawn up in accordance with :- Standard System of Measuring Building Work - Seventh Edition including all amendments Clause 42.4.4 Number of days for submission of priced documents : 5 working days from the Letter of Appointment. Clause 42.4.5 JBCC Engineering General Conditions are to be included in the documents :- No Clause 42.4.6 The contract value is to be adjusted using CPAP:- NO				
	SECTION B: PRELIMINARIES				
	DEFINITIONS AND INTERPRETATION (B1)				
	Definitions and Interpretation (B1)				
41	F: ..... V: ..... T:		Item		
	DOCUMENTS (B2)				
	Checking of documents (B2.1) Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.				
42	F: ..... V: ..... T:		Item		
	Provisional Bills of Quantities (B2.2) YES				
	Carried to Collection			R	

	Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
43	F: ..... V: ..... T:	Item		
	Availability of construction documentation (B2.3)			
44	F: ..... V: ..... T:	Item		
	Interests of Agents (B2.4)			
45	F: ..... V: ..... T:	Item		
	Priced documents (B2.5)			
46	F: ..... V: ..... T:	Item		
	Tender submission (B2.6)			
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.			
47	F: ..... V: ..... T:	Item		
	THE SITE (B3)			
	Defined works area (B3.1)			
	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
	Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.			
	The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
48	F: ..... V: ..... T:	Item		
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	Geotechnical investigation (B3.2)			
	A desktop geotechnical report is available upon request.			
49	F: ..... V: ..... T:	Item		
	Inspection of the Site (B3.3)			
50	F: ..... V: ..... T:	Item		
	Existing premises occupied (B3.4)			
51	F: ..... V: ..... T:	Item		
	Previous work - dimensional accuracy (B3.5)			
52	F: ..... V: ..... T:	Item		
	Previous work - defects (B3.6)			
53	F: ..... V: ..... T:	Item		
	Services - known (B3.7)			
54	F: ..... V: ..... T:	Item		
	Services - unknown (B3.8)			
55	F: ..... V: ..... T:	Item		
	Protection of trees (B3.9)			
56	F: ..... V: ..... T:	Item		
	Articles of value (B3.10)			
57	F: ..... V: ..... T:	Item		
	Inspection of adjoining properties (B3.11)			
58	F: ..... V: ..... T:	Item		
	MANAGEMENT OF CONTRACT (B4)			
	Management of the Works (B4.1)			
59	F: ..... V: ..... T:	Item		
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	Programme for the Works (B4.2)			
60	F: ..... V: ..... T:	Item		
	Progress meetings (B4.3)			
61	F: ..... V: ..... T:	Item		
	Technical meetings (B4.4)			
62	F: ..... V: ..... T:	Item		
	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		
	Carried to Collection		R	

	Plant and equipment (B6.4)			
69	F: ..... V: ..... T:	Item		
	Main notice board (B6.5)			
	One notice board shall be provided by the Contractor			
70	F: ..... V: ..... T:	Item		
	Subcontractors notice board (B6.6) (N/A)			
71	F: ..... V: ..... T:	Item		
	TEMPORARY SERVICES (B7)			
	Location (B7.1)			
72	F: ..... V: ..... T:	Item		
	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).			
73	F: ..... V: ..... T:	Item		
	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).			
74	F: ..... V: ..... T:	Item		
	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).			
75	F: ..... V: ..... T:	Item		
	Carried to Collection		R	

	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilties on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: ..... V: ..... T:	Item		
	PRIME COST AMOUNTS (B8)			
	Responsibility for prime cost amounts (B8.1)			
77	F: ..... V: ..... T:	Item		
	ATTENDANCE ON N/S SUBCONTRACTORS (B9)			
	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		
	FINANCIAL ASPECTS (B10)			
	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:	Item		
	Contractor information supply (B10.5)			
85	F: ..... V: ..... T:	Item		
	GENERAL (B11)			
	Protection of the Works (B11.1)			
86	F: ..... V: ..... T:	Item		
	Protection/isolation of existing/sectionally occupied works (B11.2)			
87	F: ..... V: ..... T:	Item		
	Site security (B11.3)			
88	F: ..... V: ..... T:	Item		
	Notice before covering work (B11.4)			
89	F: ..... V: ..... T:	Item		
	Disturbance (B11.5)			
90	F: ..... V: ..... T:	Item		
	Works cleaning and clearing (B11.6)			
91	F: ..... V: ..... T:	Item		
	Vermin (B11.7)			
92	F: ..... V: ..... T:	Item		
	Overhand work (B11.8)			
93	F: ..... V: ..... T:	Item		
	Carried to Collection		R	

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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Section 1
Bill No. 1
Preliminaries

	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
97	F: ..... V: ..... T:	Item		
	C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.			
98	F: ..... V: ..... T:	Item		
	C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book:			
	Carried to Collection		R	

	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:	Item		
	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.			
100	F: ..... V: ..... T:	Item		
	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.			
101	F: ..... V: ..... T:	Item		
	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.			
102	F: ..... V: ..... T:	Item		
	C10. Method Statement			
	Carried to Collection		R	

	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:	Item		
	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.			
104	F: ..... V: ..... T:	Item		
	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.			
105	F: ..... V: ..... T:	Item		
	Carried to Collection		R	

	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:	Item			
	C14. Office accommodation The contractor shall provide a 4 x 3m site office with concrete floor fitted with a minimum of two windows, lockable and 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; the contractor is required to maintain and remove on practical completion the office accommodation.[12.2.18]				
107	F: ..... V: ..... T:	Item			
	C15. Storage Facilities				
108	The Contractor shall provide a lockable Container or structure for the storage of materials. The storage facility shall have a concrete or steel floor.	Item			
109	F: ..... V: ..... T:	Item			
	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.				
	Carried to Collection		R		

110	F: ..... V: ..... T:	Item			
	SUMMARY OF CATEGORIES				
111	SUB - TOTAL: FIXED ITEMS	Item			
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item			
113	SUB - TOTAL: TIME - RELATED ITEMS	Item			
	Carried to Collection			R	

Section 1

Bill No. 1

Preliminaries

COLLECTION

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Total Brought Forward from Page No.	1		
	2		
	3		
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	21		
Carried Forward		R	

Section 1

Bill No. 1

Preliminaries

COLLECTION

	Page No		Amount
Brought Forward		R	
Total Brought Forward from Page No.	22		
	23		
Carried Forward to Summary of Section No. 1		R	

Item No		Quantity	Rate	Amount

SECTION 1

BILL No. 2

HEALTH AND SAFETY

BUILDING AGREEMENT AND PRELIMINARIES

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.

The JBCC Principal Building Agreement contract data form an integral part of this agreement

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.

PREAMBLES FOR TRADES

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained

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 through-out 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

Carried to Collection R

If any ambiguity or discrepancy in any of the documents forming part of the contract is found, then the contract data and or amendments within the special conditions of contract and herein shall prevail in cases of conflict between any of the documents

INSERTION OF HEALTH AND SAFETY QUANTITIES

Contractors are required to insert quantities next to each item in this section of the bill of quantities and should not lump the items into a single sum or amount. This fully priced schedule must be included as part of the priced bill of quantities returnable with tender submission

PRICING OF PRELIMINARIES

Contractors are required to price all individual items in this section of the bill of quantities and should not lump the items into a single sum or amount. This fully priced schedule must be included as part of the priced bill of quantities returnable with tender submission

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

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.

Carried to Collection R

Section 1
Bill No. 2
Health and Safety

	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). **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.		Item		
7	Provision of first aid boxes.		Item		
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a 80% knitted HDPE monofilament green shed netting fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc.	m	400		
	Carried to Collection			R	

9	Extra over mesh fence for double swing vehicle gate size 5.5 x 1,8m high.	No	1		
10	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1		
	Provision for Personal Protective Equipment and Protective Clothing:				
11	Reflective vests.		Item		
12	Hard hats.		Item		
13	Protective foot wear.		Item		
14	Ear Plugs.		Item		
15	Dust Masks.		Item		
	Costs of Medical Certificates and Medical Surveillance:				
16	Initial (baseline) medical examinations.		Item		
17	Exit Examinations.		Item		
	Noise Monitoring:				
18	Establishment of noise zones.		Item		
19	Audiograms.		Item		
	Carried to Collection			R	

Section 1

Bill No. 2

Health and Safety

COLLECTION

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Section 1

SECTION SUMMARY - PRELIMINARIES

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	Health and Safety	30		
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Section 1

Item No		Quantity	Rate	Amount

SECTION 2

BILL No. 1

DEMOLITIONS

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

View site

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

Explosives

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

General

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.

Carried to Collection R

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 carries 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 occuring, the Contractor will be held responsible contractually and may further be prosecuted ciminally

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

Carried to Collection R

Section 2
Bill No. 1
Demolitions

	DEMOLISHING AND REMOVING				
1	Demolish pit latrine structure comprising of block and mortar with corrugated roof sheeting, approximate size 4.8 x 3m 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		
2	Demolish pit latrine structure comprising of block and mortar with corrugated roof sheeting, approximate size 3.8 x 3m 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		
3	Demolish pit latrine zinc iron structure with corrugated roof sheeting, approximate size 7.2 x 3.0m 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		
4	Demolish pit latrine zinc iron structure with corrugated roof sheeting, approximate size 2.5 x 2.0m 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	36		
7	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	8		
	SUNDRIES				
	Desludging				
8	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	8		
9	Issue of Certificate of Waste Disposal.		Item		
	Carried to Collection			R	

Section 2
Bill No. 1
Demolitions

Section 2

Bill No. 1

Demolitions

COLLECTION

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Section 2
Bill No. 1
Demolitions

Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 1

EARTHWORKS (PROVISIONAL)

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Nature of material to be excavated:

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".

Carting away of excavated material:

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.

Carried to Collection R

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 splitiing 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 ouklip 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 0,03m^3 in volume.

Carried to Collection R

Section 3
Bill No. 1
Earthworks (Provisional)

EXCAVATION OTHER THAN BULK

Excavation in earth not exceeding 2m deep:

1	Trenches. A1 : 23 A2 : 19 A3 : 20 A4 : 15 A5 : 25 E : 0	m3	101	
2	Holes. A1 : 24 A2 : 28 A3 : 22 A4 : 18 A5 : 30 E : 0	m3	123	
3	Reduced levels under floors. A1 : 8 A2 : 7 A3 : 6 A4 : 5 A5 : 9 E : 0	m3	35	

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

4	Soft rock. A1 : 11 A2 : 11 A3 : 10 A4 : 8 A5 : 13 E : 0	m3	53	
5	Hard rock. A1 : 13 A2 : 14 A3 : 12 A4 : 10 A5 : 16 E : 0	m3	66	

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. A1 : 43 A2 : 44 A3 : 38 A4 : 30 A5 : 51 E : 0	m3	205	

Risk of collapse of excavations:

7	Sides of trench and hole excavations not exceeding 1,5m deep. A1 : 87 A2 : 76 A3 : 77 A4 : 60 A5 : 94 E : 0	m2	395	
8	Ditto, but from ground level to exceeding 1,5m. A1 : 7 A2 : 8 A3 : 7 A4 : 6 A5 : 8 E : 0	m2	35	

Keeping excavations free of water:

9	Keeping excavations free from mud and all water including subterranean sources.		Item	

Carried to Collection R

Section 3
Bill No. 1
Earthworks (Provisional)

	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. A1 : 5 A2 : 4 A3 : 4 A4 : 3 A5 : 5 E : 0	m3	22		
11	Under floors. A1 : 2 A2 : 1 A3 : 1 A4 : 1 A5 : 2 E : 0	m3	7		
	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.				
12	Under floors, steps, trenches, etc. A1 : 8 A2 : 7 A3 : 6 A4 : 5 A5 : 8 E : 0	m3	34		
	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.				
13	Under floors, steps, trenches, etc. A1 : 8 A2 : 7 A3 : 6 A4 : 5 A5 : 8 E : 0	m3	34		
	Coarse river sand filling supplied by the contractor:				
14	Under floors etc. A1 : 1 A2 : 1 A3 : 1 A4 : 1 A5 : 2 E : 0	m3	6		
	Carried to Collection			R	

	Compaction of surfaces:				
15	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. A1 : 27 A2 : 24 A3 : 22 A4 : 15 A5 : 30 E : 0	m2	117		
	Prescribed density tests on filling:				
16	Allow for compaction tests by an approved laboratory to determine density of filling material. A1 : 5 A2 : 5 A3 : 5 A4 : 5 A5 : 5 E : 0	No	25		
	Carried to Collection			R	

Section 3
Bill No. 1
Earthworks (Provisional)

	SOIL POISONING				
	Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:				
17	Under floors, including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming. A1 : 27 A2 : 24 A3 : 22 A4 : 15 A5 : 30 E : 0	m2	117		
18	To bottoms and sides of trenches, holes, etc. A1 : 130 A2 : 116 A3 : 115 A4 : 90 A5 : 142 E : 0	m2	593		
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Section 3

Bill No. 1

Earthworks (Provisional)

COLLECTION

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Section 3
Bill No. 1
Earthworks (Provisional)

Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Cost of tests:

The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).

Carried to Collection R

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.

Carried to Collection R

	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm Concrete				
1	Surface blinding under footings and bases. A1 : 2 A2 : 2 A3 : 2 A4 : 2 A5 : 3 E : 0	m3	11		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	30MPa/20mm concrete:				
2	Strip footings to walls. A1 : 5 A2 : 4 A3 : 4 A4 : 3 A5 : 5 E : 0	m3	20		
	REINFORCED CONCRETE				
	30MPa/20mm concrete:				
3	Surface beds on waterproofing. A1 : 5 A2 : 4 A3 : 4 A4 : 3 A5 : 5 E : 0	m3	20		
4	Stairs including landings. A1 : 0 A2 : 0 A3 : 0 A4 : 0 A5 : 0 E : 0	m3	1		
5	Suspended Slabs. A1 : 3 A2 : 4 A3 : 3 A4 : 2 A5 : 4 E : 0	m3	16		
6	Ground base slabs. A1 : 2 A2 : 3 A3 : 2 A4 : 2 A5 : 3 E : 0	m3	12		
7	Cavity walls. A1 : 3 A2 : 4 A3 : 3 A4 : 3 A5 : 4 E : 0	m3	17		
	Carried to Collection			R	

	TEST BLOCKS				
	Test blocks:				
8	Making and testing of 150x150x150mm concrete strength test cubes (Provisional). A1 : 3 A2 : 3 A3 : 2 A4 : 2 A5 : 3 E : 0	No	13		
	FINISHING TOP SURFACE OF CONCRETE				
	Finishing top surfaces of concrete smooth with a wood float:				
9	Surface beds, suspended slabs, ground slabs, etc. A1 : 38 A2 : 39 A3 : 33 A4 : 24 A5 : 45 E : 0	m2	179		
	Finishing top surfaces of concrete smooth with a steel float:				
10	Surface beds, suspended slabs, etc. A1 : 7 A2 : 8 A3 : 6 A4 : 5 A5 : 8 E : 0	m2	34		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough Formwork to Sides:				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide. A1 : 14 A2 : 15 A3 : 13 A4 : 12 A5 : 16 E : 0	m	70		
	Permanent Formwork:				
12	Soffit of slab over pit. A1 : 12 A2 : 14 A3 : 11 A4 : 9 A5 : 15 E : 0	m2	62		
	Extra on permanent formwork for boxing or blocking in or boxing out to form:				
13	600mm diameter circular opening through 320mm thick slab. A1 : 1 A2 : 2 A3 : 1 A4 : 1 A5 : 2 E : 0	No	7		
	Carried to Collection			R	

14	450mm Diameter opening through 255mm thick slab. A1 : 3 A2 : 1 A3 : 1 A4 : 0 A5 : 0 E : 0	No	5		
15	200mm Diameter opening through 255mm thick slab. A1 : 0 A2 : 3 A3 : 2 A4 : 1 A5 : 4 E : 0	No	10		
16	110mm Diameter opening through 255mm thick slab. A1 : 3 A2 : 4 A3 : 3 A4 : 2 A5 : 4 E : 0	No	16		
	SMOOTH FORMWORK (DEGREE OF ACCURACY I)				
	Smooth Formwork to Sides:				
17	Edges, risers, ends and reveals not exceeding 300mm high or wide. A1 : 4 A2 : 2 A3 : 2 A4 : 2 A5 : 4 E : 0	m	14		
	MOVEMENT JOINTS ETC				
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
18	12mm Joints not exceeding 300mm high (Provisional). A1 : 44 A2 : 32 A3 : 38 A4 : 20 A5 : 46 E : 0	m	180		
	Saw cut joints:				
19	6 x 40mm Saw cut joints in top of concrete (Provisional). A1 : 0 A2 : 9 A3 : 0 A4 : 0 A5 : 9 E : 0	m	17		
	REINFORCEMENT (PROVISIONAL)				
20	High tensile steel reinforcement bars to structural concrete work. A1 : 0.56 A2 : 0.45 A3 : 0.48 A4 : 0.35 A5 : 0.59 E : 0.00	t	2.43		
	Carried to Collection			R	

	Fabric reinforcement:				
21	REF. 888 fabric reinforcement in concrete footings, walls, base slabs etc. A1 : 102 A2 : 111 A3 : 93 A4 : 76 A5 : 122 E : 0	m2	505		
	Carried to Collection			R	

Section 3
Bill No. 2
Concrete, Formwork and Reinforcement

Section 3

Bill No. 2

Concrete, Formwork and Reinforcement

COLLECTION

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Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 3

MASONRY

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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.

All references to SABS shall be deemed to be the relevant SANS specification

SUPPLEMENTARY PREAMBLES

BRICKWORK

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.

Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.

Carried to Collection R

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"

Carried to Collection R

Section 3
Bill No. 3
Masonry

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. A1 : 27 A2 : 21 A3 : 23 A4 : 17 A5 : 28 E : 0	m2	116		
2	345mm thick cavity brick walls made of two leafs of 110mm wall with 135mm concrete fill (concrete elsewhere measured). A1 : 28 A2 : 30 A3 : 27 A4 : 24 A5 : 32 E : 0	m2	141		

BRICKWORK AND BLOCKWORK SUNDRIES

Galvanized brickwork reinforcement

3	115mm Wide reinforcement built in horizontally A1 : 31 A2 : 58 A3 : 31 A4 : 31 A5 : 49 E : 0	m	199		
4	230mm Wide reinforcement built in horizontally. A1 : 302 A2 : 247 A3 : 258 A4 : 168 A5 : 321 E : 0	m	1 297		
5	Ditto, but in foundations (Provisional). A1 : 190 A2 : 151 A3 : 162 A4 : 120 A5 : 202 E : 0	m	826		

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. A1 : 16 A2 : 14 A3 : 12 A4 : 10 A5 : 18 E : 0	No	70		

Carried to Collection R

Section 3
Bill No. 3
Masonry

	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:				
7	To walls (Provisional). A1 : 67 A2 : 63 A3 : 58 A4 : 47 A5 : 73 E : 0	m2	308		
	Samples				
8	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		
	FACE BRICK				
	"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):				
9	Extra over brickwork for face brickwork externally. A1 : 4 A2 : 4 A3 : 4 A4 : 3 A5 : 4 E : 0	m2	19		
10	Extra over for face brick in foundations (Provisional). A1 : 7 A2 : 6 A3 : 6 A4 : 5 A5 : 7 E : 0	m2	31		
11	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. A1 : 11 A2 : 11 A3 : 10 A4 : 8 A5 : 12 E : 0	m2	51		
12	One brickwall pointed on both sides. A1 : 91 A2 : 75 A3 : 78 A4 : 51 A5 : 97 E : 0	m2	393		
13	Half brickwall pointed on both sides. A1 : 4 A2 : 12 A3 : 4 A4 : 4 A5 : 9 E : 0	m2	33		
14	Fair raking cutting. A1 : 15 A2 : 10 A3 : 12 A4 : 10 A5 : 15 E : 0	m	62		
	Carried to Collection			R	

Section 3
Bill No. 3
Masonry

	Brick-on-edge header course copings, sills, etc, of "Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:				
15	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides. A1 : 9 A2 : 6 A3 : 5 A4 : 5 A5 : 10 E : 0	m	35		
16	150mm 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. A1 : 7 A2 : 5 A3 : 4 A4 : 4 A5 : 8 E : 0	m	28		
17	110mm soldier course internal sill jointed in cement mortar and pointed on top, side. A1 : 7 A2 : 5 A3 : 4 A4 : 4 A5 : 8 E : 0	m	28		
	Brick-on-edge header course copings, sills, etc, of "Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:				
18	110mm wide solid brick in stretcher bond on top of dwarf walls and edge of sloping external window sills. A1 : 4 A2 : 8 A3 : 2 A4 : 2 A5 : 5 E : 0	m	21		
	Carried to Collection			R	

Section 3

Bill No. 3

Masonry

COLLECTION

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	51		
	52		
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Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 4

WATERPROOFING

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Waterproofing

Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc

Carried to Collection R

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).

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.

Carried to Collection R

Section 3
Bill No. 4
Waterproofing

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. A1 : 43 A2 : 43 A3 : 37 A4 : 28 A5 : 50 E : 0	m2	202		

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

2	Below walls, sills, etc. A1 : 6 A2 : 4 A3 : 4 A4 : 3 A5 : 8 E : 0	m2	25		

JOINT SEALANTS ETC

Clear Neutral silicone sealant:

3	In joint sealing and pointing all round external window and door frames. A1 : 35 A2 : 28 A3 : 25 A4 : 18 A5 : 40 E : 0	m	145		

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). A1 : 44 A2 : 40 A3 : 38 A4 : 20 A5 : 55 E : 0	m	197		

WATERPROOFING TO PIT WALLS

Coprox waterproofing/ ABE dura slurry or similar approved 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 A1 : 29 A2 : 32 A3 : 28 A4 : 25 A5 : 33 E : 0	m2	148		

Carried to Collection R

Section 3
Bill No. 4
Waterproofing

Section 3

Bill No. 4

Waterproofing

COLLECTION

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Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 5

ROOF COVERINGS

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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

Flashings

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 drived 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

Carried to Collection R

Quality Assurance

The manufacturer shall be assessed and certifed as complying with ISO 9001: 2008 Quality Management System

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

Carried to Collection R

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

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

Carried to Collection R

Section 3
Bill No. 5
Roof Coverings Etc.

ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

0.53mm Zinc alum broad flute IBR finish chromadek pre - coated roof sheeting (charcoal - Colour to be approved by Principal Agent prior application) 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 sheeting laid to a mono-pitch. A1 : 35 A2 : 33 A3 : 29 A4 : 21 A5 : 40 E : 0	m2	158		

0.53mm 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. A1 : 8 A2 : 8 A3 : 7 A4 : 5 A5 : 9 E : 0	m	37		

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 A1 : 35 A2 : 33 A3 : 29 A4 : 21 A5 : 40 E : 0	m2	158		

Carried to Collection R

Section 3
Bill No. 5
Roof Coverings Etc.

Section 3

Bill No. 5

Roof Coverings Etc.

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Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 6

CARPENTRY & JOINERY

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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

FIXING

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

	CARPENTRY			
	Sawn softwood:			
1	38 x 152mm Wall plate. A1 : 15 A2 : 14 A3 : 13 A4 : 9 A5 : 17 E : 0	m	68	
2	50 x 76mm Purlins. A1 : 58 A2 : 54 A3 : 48 A4 : 35 A5 : 65 E : 0	m	260	
3	50 x 76mm Bracing. A1 : 15 A2 : 13 A3 : 11 A4 : 9 A5 : 17 E : 0	m	65	
4	38 x 152mm Rafters. A1 : 65 A2 : 59 A3 : 53 A4 : 45 A5 : 71 E : 0	m	294	
	Sundries:			
5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). A1 : 140 A2 : 126 A3 : 112 A4 : 98 A5 : 154 E : 0	No	630	
	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. A1 : 17 A2 : 15 A3 : 14 A4 : 10 A5 : 19 E : 0	m	74	
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. A1 : 8 A2 : 8 A3 : 8 A4 : 8 A5 : 8 E : 0	m	42	
	Carried to Collection			R

	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). A1 : 2 A2 : 1 A3 : 1 A4 : 1 A5 : 2 E : 0	No	7		
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). A1 : 0 A2 : 1 A3 : 1 A4 : 0 A5 : 0 E : 0	No	2		
10	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). A1 : 3 A2 : 0 A3 : 2 A4 : 1 A5 : 4 E : 0	No	10		
11	44mm Braced and ledged door size 862 x 1000mm (D3). A1 : 0 A2 : 3 A3 : 0 A4 : 0 A5 : 0 E : 0	No	3		
	FRAMED FRAMES, ETC				
	Meranti Frames bolted to wall with expanding masonry bolts - four per style including 13 x 13mm quadrant beads on both sides:				
12	70 x 108mm rebated meranti frame . A1 : 13 A2 : 12 A3 : 14 A4 : 4 A5 : 17 E : 0	m	59		
	Carried to Collection			R	

	Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including 13 x 13mm quadrant beads on both sides:				
13	70 x 108mm rebated meranti frame . A1 : 10 A2 : 5 A3 : 5 A4 : 5 A5 : 10 E : 0	m	36		
	Carried to Collection			R	

Section 3
Bill No. 6
Carpentry and Joinery

Section 3

Bill No. 6

Carpentry and Joinery

COLLECTION

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Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 7

IRONMONGERY

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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

Keys/Locks

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

Trade Names

Where trade names are specified other ironmongery approved by the Principal Agent may be used

Fixing

Fixing of ironmongery is deemed to be fixed to timber unless otherwise described

Carried to Collection R

	HINGES:				
1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges. A1 : 8.0 A2 : 3.0 A3 : 6.0 A4 : 3.0 A5 : 9.0 E : 0.0	Pairs	29.0		
	CATCHES, CABIN HOOKS, ETC				
2	250mm long cabin hook. A1 : 2 A2 : 1 A3 : 2 A4 : 1 A5 : 2 E : 0	No	8		
	LOCKS				
3	"UNION 2277-78SS" or equal approved three lever sash mortice lockset. A1 : 2 A2 : 2 A3 : 2 A4 : 1 A5 : 2 E : 0	No	9		
4	"UNION w/c indicator bolt satin chrome - Code CZ80941SC A1 : 3 A2 : 0 A3 : 2 A4 : 1 A5 : 4 E : 0	No	10		
5	E1511 EREBUS H/D Adjustable roller catch-SC A1 : 0 A2 : 3 A3 : 0 A4 : 0 A5 : 0 E : 0	No	3		
	HANDLES				
6	"Dorma DPH301BTB" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing. A1 : 0 A2 : 4 A3 : 1 A4 : 0 A5 : 0 E : 0	No	5		
	Sundries:				
7	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved. A1 : 3 A2 : 1 A3 : 3 A4 : 1 A5 : 4 E : 0	No	12		
8	38mm Diameter black rubber door stop plugged and screwed to floors and walls. A1 : 5 A2 : 5 A3 : 4 A4 : 2 A5 : 6 E : 0	No	22		
	Carried to Collection			R	

Section 3
Bill No. 7
Ironmongery

	SIGN PLATES:				
	All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.				
9	Sign plate plugged and screwed to walls with chromium plated dome headed screws. A1 : 2 A2 : 2 A3 : 2 A4 : 1 A5 : 2 E : 0	No	9		
	SUNDRIES				
	Halcast or equal approved"				
10	Thiefproof toilet roll holder plugged. A1 : 3 A2 : 4 A3 : 3 A4 : 1 A5 : 4 E : 0	No	15		
	Grade 304 stainless steel ware:				
11	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. A1 : 0 A2 : 1 A3 : 1 A4 : 0 A5 : 0 E : 0	No	2		
12	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. A1 : 0 A2 : 1 A3 : 1 A4 : 0 A5 : 0 E : 0	No	2		
	Satin Grey Plastics or equal approved				
13	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose. A1 : 3 A2 : 1 A3 : 3 A4 : 0 A5 : 0 E : 0	No	7		
	Carried to Collection			R	

Section 3

Bill No. 7

Ironmongery

COLLECTION

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	72		
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Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 8

METALWORK

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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

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

Carried to Collection R

ALUMINIUM WINDOWS

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.

Bronze powder coated aluminium windows glazed with 6.38mm obscure safety laminated glass and plugged to brickwork:

1	Window Size 600 x 600mm high complete, including ironmongery, etc, all as per Window Type W01. A1 : 12 A2 : 8 A3 : 7 A4 : 6 A5 : 14 E : 0	No	47		

HOT DIP GALVANIZED STEEL GATES

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

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

2	Security gate size 900 x 2050mm high (G1). A1 : 2 A2 : 1 A3 : 1 A4 : 1 A5 : 2 E : 0	No	7		
3	Security gate size 1000 x 2050mm high. A1 : 0 A2 : 0 A3 : 1 A4 : 0 A5 : 0 E : 0	No	1		

Carried to Collection R

Section 3
Bill No. 8
Metalwork

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. A1 : 1 A2 : 2 A3 : 1 A4 : 1 A5 : 2 E : 0	No	7		

Carried to Collection R

Section 3
Bill No. 8
Metalwork

Section 3

Bill No. 8

Metalwork

COLLECTION

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	75		
	76		
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Item No		Quantity	Rate	Amount

SECTION 3

BILL No. 9

PLASTERING

Quantity Split:

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

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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.

Carried to Collection R

	SCREEDS				
	Untinted granolithic, on concrete:				
1	25mm Thick on floors and landings. A1 : 27 A2 : 24 A3 : 22 A4 : 15 A5 : 30 E : 0	m2	117		
	Skirtings				
2	75mm High coved granolithic skirting. A1 : 48 A2 : 43 A3 : 41 A4 : 23 A5 : 55 E : 0	m	210		
	INTERNAL PLASTER (PIT WALLS)				
	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				
3	On walls. A1 : 28 A2 : 30 A3 : 27 A4 : 24 A5 : 32 E : 0	m2	141		
	Carried to Collection			R	

Section 3

Bill No. 9

Plastering

COLLECTION

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Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL No. 10				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	Quantity Split:				
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A1 - DWG 02 - Staff Ablutions A2 - DWG 06 - Grade R Ablutions A3 - DWG 18 - Female Learner Ablutions A4 - DWG 28 - Male Learner Ablutions A5 - DWG 41 - Intermediate Male & Female Learner 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.				
	RAINWATER DISPOSAL:				
	Watertite or equal approved Aluminium Gutters and Downpipes:				
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres. A1 : 17 A2 : 15 A3 : 14 A4 : 10 A5 : 19 E : 0	m	74		
2	Extra over eaves gutter for stopped end. A1 : 2 A2 : 2 A3 : 2 A4 : 2 A5 : 2 E : 0	No	10		
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe. A1 : 2 A2 : 2 A3 : 2 A4 : 2 A5 : 2 E : 0	No	10		
	Carried to Collection			R	

4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured). A1 : 10 A2 : 10 A3 : 10 A4 : 10 A5 : 10 E : 0	m	48		
5	Extra over rainwater downpipe for bends. A1 : 6 A2 : 6 A3 : 6 A4 : 6 A5 : 6 E : 0	No	30		
	TAPS, VALVES, ETC				
	SABS Approved taps, valves, etc:				
6	15mm "Genebre" or equal approved Standard Cp metering pillar tap (4 Bar 70 Deg Max), [Product Code: 029928]. A1 : 3 A2 : 2 A3 : 2 A4 : 2 A5 : 3 E : 0	No	12		
7	15mm Cobra 504-21B chrome plated elbow action cold water pillar tap. A1 : 0 A2 : 1 A3 : 1 A4 : 0 A5 : 0 E : 0	No	2		
8	15mm Flexi braided connector FXF 15x350mm A1 : 3 A2 : 3 A3 : 3 A4 : 2 A5 : 3 E : 0	No	14		
9	15mm Ball valve and handle OXC DZR . A1 : 3 A2 : 3 A3 : 3 A4 : 2 A5 : 3 E : 0	No	14		
10	22mm Non Return valve. A1 : 1 A2 : 1 A3 : 1 A4 : 1 A5 : 1 E : 0	No	5		
	WASTE UNIONS ETC				
	Outlets, traps, etc:				
11	40mm 342/50 CP bottle trap. A1 : 1 A2 : 0 A3 : 0 A4 : 0 A5 : 0 E : 0	No	1		
12	40mm Code 316 chrome plated unslotted waste outlet. A1 : 3 A2 : 2 A3 : 2 A4 : 2 A5 : 3 E : 0	No	12		
	Carried to Collection			R	

13	40mm Rubber "P" or "S" trap A1 : 3 A2 : 2 A3 : 2 A4 : 2 A5 : 3 E : 0	No	12		
	SANITARY FITTINGS				
	Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product: Black				
14	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. A1 : 3 A2 : 1 A3 : 1 A4 : 0 A5 : 0 E : 0	No	5		
15	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. A1 : 0 A2 : 0 A3 : 2 A4 : 1 A5 : 0 E : 0	No	3		
16	Bambi Longdrop VIP Pit pedestal for children complete with C/W flap. size: 282 x 360 x 300mm. A1 : 0 A2 : 3 A3 : 0 A4 : 0 A5 : 4 E : 0	No	7		
	Vaal or equal approved:				
17	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] A1 : 1 A2 : 0 A3 : 0 A4 : 0 A5 : 0 E : 0	No	1		
18	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. A1 : 3 A2 : 2 A3 : 2 A4 : 2 A5 : 3 E : 0	No	12		
	Carried to Collection			R	

	Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:				
19	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 be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). 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. A1 : 0 A2 : 0 A3 : 0 A4 : 1 A5 : 1 E : 0	No	2	
	SANITARY PLUMBING				
	PVC waste or vent pipes and fittings:				
20	50mm Waste pipe. A1 : 15 A2 : 10 A3 : 10 A4 : 10 A5 : 15 E : 0	m	60		
21	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. A1 : 15 A2 : 28 A3 : 15 A4 : 15 A5 : 20 E : 0	m	93		
22	110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres. A1 : 12 A2 : 16 A3 : 12 A4 : 8 A5 : 16 E : 0	m	64		
	Extra for:				
23	50mm Bend. A1 : 12 A2 : 8 A3 : 8 A4 : 8 A5 : 12 E : 0	No	48		
24	50mm Access bend. A1 : 9 A2 : 9 A3 : 9 A4 : 6 A5 : 9 E : 0	No	42		
	Carried to Collection			R	

25	250mm Black Whirlybird with insect-proof netting inside, to fit on 110mm vent pipe. A1 : 3 A2 : 4 A3 : 3 A4 : 1 A5 : 4 E : 0	No	15		
	WATER SUPPLIES				
	Polycop pipes:				
	Pipes shall be class 10.				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
	Polycop pipes chased in walls:				
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.				
	Reducing fittings:				
	Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.				
	Class 10 Polycop pipes:				
26	15mm Pipe chased into brick walls. A1 : 20 A2 : 25 A3 : 20 A4 : 18 A5 : 23 E : 0	m	106		
27	22mm Pipe chased into brick walls. A1 : 15 A2 : 20 A3 : 15 A4 : 15 A5 : 15 E : 0	m	80		
	Extra over polycop pipes for compression fittings:				
28	15mm Fittings. A1 : 12 A2 : 16 A3 : 12 A4 : 10 A5 : 18 E : 0	No	68		
	Carried to Collection			R	

29	22mm Fittings. A1 : 8 A2 : 10 A3 : 8 A4 : 6 A5 : 12 E : 0	No	44		

Carried to Collection R

Section 3
Bill No. 10
Plumbing and Drainage (Provisional)

Section 3

Bill No. 10

Plumbing and Drainage (Provisional)

COLLECTION

	Page No		Amount
Total Brought Forward from Page No.	81		
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	84		
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	86		
Carried Forward to Summary of Section No. 3		R	

Item No		Quantity	Rate	Amount

SECTION 3

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:

A1 - DWG 02 - Staff Ablutions
A2 - DWG 06 - Grade R Ablutions
A3 - DWG 18 - Female Learner Ablutions
A4 - DWG 28 - Male Learner Ablutions
A5 - DWG 41 - Intermediate Male & Female Learner 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"

Epoxy paint

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

Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.

Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.

Carried to Collection R

	PAINTWORK ETC TO NEW WORK				
	ON WOOD				
	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:				
1	On doors A1 : 0 A2 : 6 A3 : 0 A4 : 0 A5 : 0 E : 0	m2	6		
2	On door frames A1 : 0 A2 : 2 A3 : 0 A4 : 0 A5 : 0 E : 0	m2	2		
	Two coats superior quality clear gloss varnish on smooth sanded down surfaces:				
3	On doors A1 : 20 A2 : 14 A3 : 16 A4 : 8 A5 : 24 E : 0	m2	81		
4	On door frames A1 : 5 A2 : 4 A3 : 4 A4 : 2 A5 : 6 E : 0	m2	22		
	Prepare and apply two coats carbolenium on:				
5	On exposed timbers. A1 : 34 A2 : 31 A3 : 28 A4 : 22 A5 : 38 E : 0	m2	154		
	ON FIBRE-CEMENT				
	Prepare and apply two coats pure acrylic roof paint on:				
6	On fascias and barge boards. A1 : 8 A2 : 7 A3 : 7 A4 : 6 A5 : 8 E : 0	m2	35		
	ON PVC VENT PIPE				
	Prepare and apply two coats black PVA paint:				
7	Vent Pipes A1 : 4 A2 : 6 A3 : 4 A4 : 3 A5 : 6 E : 0	m2	22		
	Carried to Collection			R	

Section 3

Bill No. 11

Paintwork

COLLECTION

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Total Brought Forward from Page No.	88		
	89		
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Section 3

SECTION SUMMARY - BUILDING WORKS

Bill No		Page No		Amount
	Earthworks (Provisional)	42		
	Concrete, Formwork and Reinforcement	49		
	Masonry	55		
	Waterproofing	59		
	Roof Coverings Etc.	64		
	Carpentry and Joinery	69		
	Ironmongery	73		
	Metalwork	77		
	Plastering	80		
	Plumbing and Drainage (Provisional)	87		
	Paintwork	90		
	Carried to Final Summary		R	

Section 3

Item No			Quantity	Rate	Amount
	SECTION No. 4				
	BILL No. 1				
	EXTERNAL WORKS (PROVISIONAL)				
	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.				
	THE FOLLOWING IN PLATFORMS, ETC.				
	Site Clearance, ETC				
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	606		
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	606		
	Open face excavation not exceeding 2m deep:				
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	303		
	Extra over all excavations for carting away:				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	152		
	Earth filling from excavated material				
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	303		
	Carried to Collection			R	

	Filling supplied by the contractor to form platforms				
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	170		
	Surface Preparation:				
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	606		
	Prescribed density tests on filling:				
8	Modified AASHTO Density test.	No	5		
	THE FOLLOWING IN WALKWAYS				
	Excavation not exceeding 2m deep				
9	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	133		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
10	Off site to a dumping site to be found by the Contractor.	m3	133		
	Filling supplied by the contractor under walkways				
11	G7 Base course material compacted to 98% Mod AASHTO density	m3	57		
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	57		
	Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:				
13	Under floors,etc.	m2	381		
	Carried to Collection			R	

	Prescribed density tests on filling:				
14	In-situ dry density test.	No	10		
	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:				
15	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	381		
	150-175mm diameter bollards				
16	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	25		
	Carried to Collection			R	

Section 4
Bill No. 1
External Works

	THE FOLLOWING IN DISABLED ACCESS				
	SCREEN WALL				
	Excavation in earth not exceeding 2m deep:				
17	Trenches.	m3	8		
	Extra over all excavations for carting away:				
18	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	8		
	Risk of collapse of excavations:				
19	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	24		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
20	Backfilling to trenches, holes, etc.	m3	6		
	Filling supplied by the contractor under strip footing				
21	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
22	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		
	Compaction of surfaces				
23	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	12		
	25 Mpa/19mm Concrete				
24	Strip footings.	m3	2		
	Carried to Collection			R	

	Test blocks:				
25	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	Reinforcement (Provisional)				
26	High tensile steel reinforcement bars to structural concrete work.	t	0.29		
	BRICKWORK IN FOUNDATIONS.				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):				
27	One brick walls.	m2	9		
	BRICKWORK IN SUPERSTRUCTURE				
	Brickwork reinforcement:				
28	230mm Wide reinforcement built in horizontally.	m	34		
29	Ditto but in foundations.	m	67		
	FACE BRICK				
	"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):				
30	One brickwall faced on both sides.	m2	9		
	Brick-on-edge header course copings, sills, etc, of "Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:				
31	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	17		
	Carried to Collection			R	

Section 4
Bill No. 1
External Works

	ACCESS RAMPS				
	Excavation not exceeding 2m deep				
32	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	10		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
33	Off site to a dumping site to be found by the Contractor.	m3	10		
	Filling supplied by the contractor under floors, aprons, etc				
34	G7 Base course material compacted to 98% Mod AASHTO density	m3	3		
35	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	3		
	Coarse river sand filling supplied by the contractor:				
36	Under floors etc.	m3	1		
	Compaction of surfaces:				
37	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	23		
	Prescribed density tests on filling:				
38	In-situ dry density test.	No	2		
	Reinforced 25Mpa/19mm Concrete:				
39	Ramps, Landings, etc.	m3	3		
	Finishing top surfaces of concrete smooth with a wood float:				
40	Surface beds, slabs, etc to falls and currents.	m2	23		
	Carried to Collection			R	

	Test blocks:				
41	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
42	12mm Joints not exceeding 300mm high.	m	32		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
43	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	32		
	Fabric reinforcement:				
44	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	23		
	Waterproofing under Surface beds				
45	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	23		
	Carried to Collection			R	

	THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.				
	Excavation not exceeding 2m deep				
46	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	54		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
47	Off site to a dumping site to be found by the Contractor.	m3	54		
	Filling supplied by the contractor under floors, aprons, channels etc				
48	G7 Base course material compacted to 98% Mod AASHTO density	m3	18		
49	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		
	Coarse river sand filling supplied by the contractor:				
50	Under floors etc.	m3	6		
	Compaction of surfaces:				
51	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		
	Prescribed density tests on filling:				
52	In-situ dry density test.	No	3		
	Reinforced 25Mpa/19mm Concrete:				
53	Surface beds cast in panels on waterproofing.	m3	18		
	Finishing top surfaces of concrete smooth with a wood float:				
54	Surface beds, slabs, etc to falls and currents.	m2	120		
	Carried to Collection			R	

	Test blocks:				
55	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
56	12mm Joints not exceeding 300mm high.	m	60		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
57	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	60		
	Fabric reinforcement:				
58	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	120		
	THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.				
	Site Clearance, ETC				
59	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	200		
	Excavation in earth not exceeding 2m deep:				
60	Trenches.	m3	30		
	Extra over all excavations for carting away:				
61	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	30		
	Risk of collapse of excavations:				
62	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	120		
	Carried to Collection			R	

	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
63	Backfilling to trenches, holes, etc.	m3	42		
	Earth filling with river sand to subsoil drain				
64	Backfilling to trenches, holes, etc.	m3	9		
	Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:				
65	19mm Stone.	m3	9		
	Membrane				
66	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	120		
	Keeping excavations free of water:				
67	Keeping excavations free from mud and all water including subterranean sources.		Item		
	Compaction of surfaces				
68	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	50		
	Carried to Collection			R	

	SOIL DRAINAGE				
	110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.				
69	110mm uPVC pipe.	m	100		
	Extra for:				
70	110mm Tee.	No	3		
71	110mm Y junction.	No	2		
	Reno mattresses:				
72	2.0m long x 1.0m wide x 0.3m high reno mattresses consisting of 60 x 80 mm galvanised mesh filled with 100 - 150mm stones, wrapped with Grade 3 geotextile below and along the sides of the reno mattress.	No	5		
	THE FOLLOWING IN SOAKAWAY				
	Site Clearance, Etc				
73	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	11		
	Excavation in earth not exceeding 2m deep:				
74	Holes	m3	7		
	Extra over all excavations for carting away				
75	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	7		
	Risk of collapse of excavations				
76	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	26		
	Carried to Collection			R	

	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density				
77	Backfilling to holes	m3	4		
	Earth filling with stone material supplied by the contractor:				
78	Stone (>63mm).	m3	3		
	Membranes				
79	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	20		
	Keeping excavations free of water				
80	Keeping excavations free of all water other than subterranean water		Item		
	THE FOLLOWING IN RAINWATER TANKS AND STANDS				
	Excavation in earth not exceeding 2m deep:				
81	Trenches.	m3	27		
	Extra over all excavations for carting away:				
82	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	27		
	Risk of collapse of excavations:				
83	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	10		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
84	Backfilling to trenches, holes, etc.	m3	13		
	Carried to Collection			R	

	Filling supplied by the contractor under strip footing, floors etc.				
85	G7 Base course material compacted to 98% Mod AASHTO density	m3	10		
86	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	10		
	Compaction of surfaces				
87	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	28		
	25 Mpa/19mm Concrete				
88	Strip footings.	m3	8		
	25 MPa/19mm Concrete:				
89	Tank concrete slab.	m3	6		
	Test blocks:				
90	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	14		
	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:				
91	Surface beds, slabs, etc.	m2	28		
	Rough Formwork to Sides:				
92	Edges, risers, ends and reveals not exceeding 300mm high.	m	56		
	Allens Meshco Square Mesh Fabric reinforcement:				
93	Type 617 fabric reinforcement in concrete slabs.	m2	28		
	Carried to Collection			R	

	BRICKWORK IN FOUNDATIONS.				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):				
94	One brick walls.	m2	28		
	BRICKWORK IN SUPERSTRUCTURE				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):				
95	One brick walls.	m2	34		
	Brickwork reinforcement:				
96	230mm Wide reinforcement built in horizontally.	m	155		
97	Ditto but in foundations.	m	172		
	FACE BRICK				
	"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):				
98	Extra over brickwork for face brickwork externally.	m2	34		
	Brick-on-edge header course copings, sills, etc, of "Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:				
99	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	56		
	Plastic water tanks etc:				
100	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	7		
	Carried to Collection			R	

101	Hole top of tank for 100mm pipe.	No	7		
	WORKMANSHIP SAMPLE CONSTRUCTION				
	The main contractor is to make a provision for construction workmanship samples below to be used in the selection process for appointing SMMEs.				
102	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size:1000x1000x500mm high with 220mm wide brick on edge at the top pointed and jointed all around.		Item		
103	Prepare and construct for approval 50mm brick paved surface area of 1000x1000mm including all necessary layer works as per the issued specifications.		Item		
104	Prepare and construct for approval a 800mm wide x 1000mm long concrete V-drains as per given specifications.		Item		
	Carried to Collection			R	

Section 4
Bill No. 1
External Works

Section 4

Bill No. 1

External Works

COLLECTION

	Page No		Amount
Total Brought Forward from Page No.	92		
	93		
	94		
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	98		
	99		
	100		
	101		
	102		
	103		
	104		
	105		
	106		
Carried to Final Summary		R	

Item No		Quantity	Rate	Amount
	SECTION 5			
	BILL No. 1			
	PROVISIONAL SUMS			
	SUPPLEMENTARY PREAMBLES			
	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 therto.			
	SMMEs PACKAGES			
	The following amounts are for work to be carried out by local SMMEs in terms of the Nominated/Selected Subcontract Agreement as prepared by the Joint Building Contracts Committee (JBCC):			
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.			
1	Provisional sum of R 135 000.00 is made in respect of brick paving and concrete kerbs on walkways to be undertaken by local SMMEs under this project and as described in the Project Specifications.	Item		135 000.00
2	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
	Carried to Collection		R	

3	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
4	Allowance for additional supervision by the main contractor to ensure acceptable quality of workmanship in work executed by local SMMEs is achieved.		%	
5	Provisional sum of R 150 000.00 is made in respect of Garden wall faced both sides to be undertaken by local SMMEs under this project and as described in the Project Specifications.	Item		150 000.00
6	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
7	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
8	Allowance for additional supervision by the main contractor to ensure acceptable quality of workmanship in work executed by local SMMEs is achieved.		%	
9	Provisional sum of R 350 000.00 is made in respect of concrete aprons and V-drains around the buildings to be undertaken by local SMMEs under this project and as described in the Project Specifications.	Item		350 000.00
10	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
11	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
12	Allowance for additional supervision by the main contractor to ensure acceptable quality of workmanship in work executed by local SMMEs is achieved.		%	
13	Provisional sum of R 320 000.00 is made in respect of face brick retaining wall to be undertaken by local SMMEs under this project and as described in the Project Specifications.	Item		320 000.00
14	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
15	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
	Carried to Collection		R	

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16	Allowance for additional supervision by the main contractor to ensure acceptable quality of workmanship in work executed by local SMMEs is achieved.		%	
17	Provisional sum of R 410 000.00 is made in respect of high security fencing around Grade R and intermediate learner ablution blocks to be undertaken by local SMMEs under this project and as described in the Project Specifications.	Item		410 000.00
18	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
19	Allowance for attendance all inclusive of associated costs to the contractor for implementation.		%	
20	Allowance for additional supervision by the main contractor to ensure acceptable quality of workmanship in work executed by local SMMEs is achieved.		%	
	QUALITY TESTING OF SMME WORKS & MATERIALS			
21	Provide the Provisional sum of R 50 000.00 (Fifty Thousand Rand) for testing of work done by SMME's and the material supplied by local suppliers.	Item		50 000.00
22	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
	OHS FILE, MEDICAL TESTS & PPE FOR SMME PERSONNEL			
23	Provide the Provisional sum of R 60 000.00 (Sixty Thousand Rand) for the facilitation of occupational health safety file, medical tests and provision of PPE, OHS file etc for SMME personnel.	Item		60 000.00
24	Allowance for profit all inclusive of associated costs to the contractor for implementation.		%	
	Carried to Collection		R	

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	BUDGETARY ALLOWANCES			
	The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:			
25	Allow for the employment of a Community Liaison Officer by the Main Contractor, to be paid an allowance of R6 500.00 per month.	Item		39 000.00
26	Add: Mark-up		%	
	Carried to Collection		R	

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Provisional Sums

Section 5

Bill No. 1

Provisional Sums

COLLECTION

	Page No		Amount
Total Brought Forward from Page No.	108		
	109		
	110		
	111		
Carried to Final Summary		R	

FINAL SUMMARY

Section No		Page No		Amount
1	PRELIMINARIES	31		
2	DEMOLITIONS (PROVISIONAL)	35		
3	BUILDING WORKS	91		
4	EXTERNAL WORKS (PROVISIONAL)	107		
5	PROVISIONAL SUMS	112		
	SUB-TOTAL		R	
	CONTINGENCIES			
	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	