



**SANITATION APPROPRIATE FOR EDUCATION (SAFE)
PROGRAMME BATCH 5**

CONTRACT NO.: 200300705

**CONSTRUCTION OF ABLUTION FACILITIES AT
ZWELILUNGILE PS**

PROVISIONAL BILLS OF QUANTITIES

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PRELIMINARIES

Amount

SECTION NO. 1

PRELIMINARIES

BILL NO. 1

PRELIMINARIES

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.

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.

Carried to Collection

R

Section No. 1
Bill No. 1
Preliminaries

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.

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

Works risk (Clause 8)

8 F: V: T:

Item

Indemnities (Clause 9).

Clause 9.1.1 is deleted and substituted with:

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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). Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"	Item	
26	F: V: T: Sectional completion (Clause 28).	Item	
27	F: V: T: Revision of date for practical completion (Clause 29).	Item	
28	F: V: T: Penalty for non-completion (Clause 30).	Item	
29	F: V: T: 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.	Item	
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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T: Item

Recovery of expense and loss (Clause 33).

31 F: V: T: Item

Final account and final payment (Clause 34).

32 F: V: T: Item

Payment to other parties (Clause 35).

33 F: V: T: Item

CANCELLATION

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

34 F: V: T: Item

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

35 F: V: T: Item

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

36 F: V: T: Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T: Item

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

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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

CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

To be advised.

Penalty amount will be 5,75c/R100 of Contract Sum.

Clause 42.2.8

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

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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

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

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

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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

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.

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	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: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item	
49	F: V: T: Inspection of the Site (B3.3)	Item	
50	F: V: T: Existing premises occupied (B3.4)	Item	
51	F: V: T: Previous work - dimensional accuracy (B3.5)	Item	
52	F: V: T: Previous work - defects (B3.6)	Item	
53	F: V: T: Services - known (B3.7)	Item	
54	F: V: T: Services - unknown (B3.8)	Item	
55	F: V: T: Protection of trees (B3.9)	Item	
56	F: V: T: Articles of value (B3.10)	Item	
57	F: V: T: Inspection of adjoining properties (B3.11)	Item	
58	F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item	
59	F: V: T: Programme for the Works (B4.2)	Item	
60	F: V: T: Progress meetings (B4.3)	Item	
61	F: V: T: Technical meetings (B4.4)	Item	
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85	Contractor information supply (B10.5) F: V: T:	Item	
<u>GENERAL (B11)</u>			
86	Protection of the Works (B11.1) F: V: T:	Item	
87	Protection/isolation of existing/sectionally occupied works (B11.2) F: V: T:	Item	
88	Site security (B11.3) F: V: T:	Item	
89	Notice before covering work (B11.4) F: V: T:	Item	
90	Disturbance (B11.5) F: V: T:	Item	
91	Works cleaning and clearing (B11.6) F: V: T:	Item	
92	Vermin (B11.7) F: V: T:	Item	
93	Overhand work (B11.8) F: V: T:	Item	
<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
<u>Section C: Specific Preliminaries:</u>			
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.			
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95	<p>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.</p> <p>F: V: T:</p>	Item	
96	<p>C3. Contractors responsibility</p> <p>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.</p> <p>F: V: T:</p>	Item	
97	<p>C4. Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p> <p>F: V: T:</p>	Item	
98	<p>C5. As built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p> <p>F: V: T:</p>	Item	
	<p>C6. Construction Instructions</p> <p>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:</p> <p>a) Construction Instruction Book:</p> <p>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.</p> <p>Only instructions issued in such book shall be recognised.</p> <p>b) Daily Record Book:</p>		
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	<p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p>	Item	
99	F: V: T:		
	C7. Labour record		
	<p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p>		
100	F: V: T:	Item	
	C8. Plant record		
	<p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>		
101	F: V: T:	Item	
	C9. Encroachment		
	<p>During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p>		
102	F: V: T:	Item	
	C10. Method Statement		
	<p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p>		
103	F: V: T:	Item	
	C11. Unauthorised Persons/Workmen on Premises		
	<p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p>		
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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	
	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, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]		
107	F: V: T:	Item	
	C15. Storage Facilities		
108	The Contractor shall provide a Container for storage of materials.	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.		
110	F: V: T:	Item	
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- 111 SUB - TOTAL: FIXED ITEMS
- 112 SUB - TOTAL: VALUE - RELATED ITEMS
- 113 SUB - TOTAL: TIME - RELATED ITEMS

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	Unit	Quantity	Rate	Amount
2 Submission of the Health and Safety File.	Item			
3 Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item			
4 Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item			
5 Provision of full time Health and Safety Officer for the entire construction period.	Item			
6 Induction training of personnel.	No	1		
7 Provision of first aid boxes.	No	1		
8 SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	250		
9 Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	2		
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>				
10 Reflective vests.	No	60		
11 Hard hats.	No	60		
12 Protective foot wear.	No	60		
13 Ear Plugs.	No	60		
14 Dust Masks.	No	60		
<u>Costs of Medical Certificates and Medical Surveillance:</u>				
15 Initial (baseline) medical examinations.	No	60		
16 Exit Examinations.	No	60		
<u>Noise Monitoring:</u>				
17 Establishment of noise zones.	No	1		
18 Audiograms.	No	5		
<u>C16. Covid-19 Compliance Measures</u>				
19 The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.	Item			
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SECTION NO. 2
DEMOLITIONS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>DEMOLITIONS</u> <u>BILL NO. 1</u> <u>DEMOLITIONS</u></p> <p><u>SECTION 2</u> <u>BILL No. 1</u> <u>DEMOLITIONS</u> <u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated.</p> <p><u>General</u></p> <p>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.</p> <p>Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.</p>				
<p>Section No. 2 Bill No. 1 Demolitions</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<p><u>Removal of asbestos material</u></p> <p>All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.</p> <p><u>The following shall apply in respect of asbestos removal</u></p> <p>The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001. Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose.</p> <p>Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material. Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally.</p> <p>The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained.</p> <p><u>DEMOLISHING AND REMOVING</u></p>				
1	No	5		
2	Item			
			Carried to Collection	R
<p>Section No. 2 Bill No. 1 Demolitions</p>				

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SECTION NO. 3
BUILDINGS

	Unit	Quantity	Rate	Amount
<u>Dewatering of excavations:</u>				
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				
<u>Density testing on filling:</u>				
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.				
<u>Imported fill:</u>				
"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"				
<u>Classification of excavated material</u>				
"Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives. "Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact outcrop and material of similar hardness. "Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0,03m ³ in volume.				
<u>EXCAVATION OTHER THAN BULK</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
1		Trenches.	m ³	62
2		Holes.	m ³	167
3		Reduced levels under floors.	m ³	28
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
4		Soft rock.	m ³	88
5		Hard rock.	m ³	44
<u>Extra over all excavations for carting away:</u>				
6		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	245
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Bill No. 1				
Earthworks (provisional)				

	Unit	Quantity	Rate	Amount
<u>Risk of collapse of excavations:</u>				
7				
Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	176		
8				
Ditto, but from ground level to exceeding 1,5m.	m ²	162		
<u>Keeping excavations free of water:</u>				
9				
Keeping excavations free from mud and all water including subterranean sources.	Item			
<u>EARTH FILLING, ETC.</u>				
<u>Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:</u>				
10				
Backfilling to trenches, holes, etc.	m ³	3		
11				
Under floors, steps, pavings, trenches, etc.	m ³	16		
<u>Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to trenches, holes, etc.</u>				
12				
Under floors, steps, pavings, trenches, etc.	m ³	74		
<u>Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to holes, trenches etc.</u>				
13				
Under floors, steps, pavings, trenches, etc.	m ³	37		
14				
Backfilling to holes, trenches, etc.	m ³	33		
<u>Coarse river sand filling supplied by the contractor:</u>				
15				
Under floors etc.	m ³	10		
<u>Compaction of surfaces:</u>				
16				
Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m ²	179		
<u>Prescribed density tests on filling:</u>				
17				
Allow for compaction tests by an approved laboratory to determine density of filling material.	No	37		
Carried to Collection				
Section No. 3				
Bill No. 1				
Earthworks (provisional)				
			R	

Amount

BILL NO. 1
EARTHWORKS (PROVISIONAL)
COLLECTION

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Carried To Section Summary

R

Section No. 3
Bill No. 1
Earthworks (provisional)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>BUILDINGS</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>SECTION 3</u> <u>BILL No. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 04 - Staff Ablutions A1 - DWG 06 - Grade R Ablutions A6 - DWG 14 - Male Ablutions AD - DWG 35 - Female Ablutions</p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Cost of tests:</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> <p><u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 2 Concrete, Formwork And Reinforcement</p>				
			R	

	Unit	Quantity	Rate	Amount
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>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.</p>				
<p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>15Mpa/19mm Concrete</u></p>				
1	m ³	3		
<p><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>30MPa/20mm concrete:</u></p>				
2	m ³	14		
<p><u>REINFORCED CONCRETE</u></p> <p><u>30MPa/20mm concrete:</u></p>				
3	m ³	18		
4	m ³	15		
5	m ³	14		
6	m ³	17		
<p><u>TEST BLOCKS</u></p> <p><u>Test blocks:</u></p>				
7	No	24		
<p><u>FINISHING TOP SURFACE OF CONCRETE</u></p> <p><u>Finishing top surfaces of concrete smooth with a wood float:</u></p>				
8	m ²	286		
Carried to Collection				
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				
			R	

	Unit	Quantity	Rate	Amount
<u>Finishing top surfaces of concrete smooth with a steel float:</u>				
9	m ²	70		
<u>Charmfers at corners</u>				
10	m	71		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
<u>Rough Formwork to Sides:</u>				
11	m	69		
<u>Permanent Formwork:</u>				
12	m ²	70		
<u>Extra on permanent formwork for boxing or blocking in or boxing out to form:</u>				
13	No	8		
14	No	5		
15	No	8		
16	No	3		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
<u>Smooth Formwork to Sides:</u>				
17	m	29		
<u>MOVEMENT JOINTS ETC</u>				
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
18	m	97		
<u>Saw cut joints:</u>				
19	m	145		
<u>REINFORCEMENT (PROVISIONAL)</u>				
20	Tonnes	5		
Carried to Collection				
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				

Amount

BILL NO. 2
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

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Carried To Section Summary

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Section No. 3
Bill No. 2
Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount
<u>Pointing</u>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
<u>Samples</u>				
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				
<u>Trade names</u>				
Where trade names are specified it will read "or equal approved"				
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>				
<u>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):</u>				
1	m ²	75		
2	m ²	120		
<u>BRICKWORK AND BLOCKWORK SUNDRIES</u>				
<u>Galvanized brickwork reinforcement</u>				
3	m	609		
4	m	1 114		
5	m	533		
<u>Cramps, ties, etc:</u>				
6	No	94		
<u>Air bricks etc:</u>				
7	No	16		
Carried to Collection				
Section No. 3				
Bill No. 3				
Masonry				
			R	

	Unit	Quantity	Rate	Amount
<p><u>Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixéal" bitumen emulsion waterproofing coating:</u></p>				
8	To walls (Provisional).	m ²	268	
<p><u>Samples</u></p>				
9	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same position to be paved as per given specifications.	Item		
<p><u>FACE BRICK</u></p>				
<p><u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u></p>				
10	Extra over brickwork for face brickwork externally.	m ²	16	
11	Extra over for face brick in foundations (Provisional).	m ²	75	
12	Half brick wall in beam filling pointed one side including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar.	m ²	23	
13	One brickwall pointed on both sides.	m ²	340	
14	Half brickwall pointed on both sides.	m ²	59	
15	Fair raking cutting.	m	36	
<p><u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u></p>				
16	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.	m	23	
17	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	27	
Carried to Collection				
Section No. 3				
Bill No. 3				
Masonry				
			R	

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BILL NO. 3
MASONRY
COLLECTION

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Section No. 3
Bill No. 3
Masonry

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BILL NO. 4
WATERPROOFING
COLLECTION

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Section No. 3
Bill No. 4
Waterproofing

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>BUILDINGS</u> <u>BILL NO. 5</u> <u>ROOF COVERINGS</u></p> <p><u>SECTION 3</u> <u>BILL No. 5</u> <u>ROOF COVERINGS</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 04 - Staff Ablutions A1 - DWG 06 - Grade R AblutionsA6 - DWG 14 - Male Ablutions AD - DWG 35 - Female Ablutions</p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Flashings</u> Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side</p> <p><u>Quality Assurance</u> The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System</p>				
<p>Section No. 3 Bill No. 5 Roof Coverings</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<p><u>Guarantee</u> Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.</p> <p><u>Safety</u> The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity</p> <p><u>Handling and Storage</u> The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction</p> <p><u>Inspection Prior to Installation or Erection</u> 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</p>				
<p>Section No. 3 Bill No. 5 Roof Coverings</p>			<p style="text-align: right;">Carried to Collection</p>	<p style="text-align: center;">R</p>

Amount

BILL NO. 5
ROOF COVERINGS
COLLECTION

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Section No. 3
Bill No. 5
Roof Coverings

	Unit	Quantity	Rate	Amount
<u>EAVES, VERGES, ETC</u>				
<u>"Everite Nutec" or equal approved fibre cement</u>				
6	m	34		
12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.				
7	m	36		
85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.				
<u>DOORS ETC</u>				
<u>SANS Approved meranti:</u>				
8	No	5		
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).				
9	No	2		
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).				
10	No	3		
44mm Braced and ledged door size 862 x 1000mm (D3).				
11	No	14		
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).				
<u>FRAMED FRAMES, ETC</u>				
<u>Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:</u>				
12	m	87		
70 x 108mm rebated meranti frame .				
<u>Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:</u>				
13	m	16		
70 x 108mm rebated meranti frame .				
			R	
Carried to Collection				
Section No. 3				
Bill No. 6				
Carpentry & Joinery				

Amount

BILL NO. 6
CARPENTRY & JOINERY
COLLECTION

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Section No. 3
Bill No. 6
Carpentry & Joinery

Amount

BILL NO. 7
IRONMONGERY
COLLECTION

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Section No. 3
Bill No. 7
Ironmongery

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BILL NO. 8
METALWORK
COLLECTION

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Section No. 3
Bill No. 8
Metalwork

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>BUILDINGS</u> <u>BILL NO. 9</u> <u>PLASTERING</u></p> <p><u>SECTION 3</u> <u>BILL No. 9</u> <u>PLASTERING</u> <u>Quantity Split:</u></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>A0 - DWG 04 - Staff Ablutions A1 - DWG 06 - Grade R Ablutions A6 - DWG 14 - Male Ablutions AD - DWG 35 - Female Ablutions</p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SCREEDS</u> <u>Untinted granolithic, on concrete:</u></p> <p>1 30mm Thick on floors and landings. m² 232</p> <p><u>Skirtings</u></p> <p>2 75mm High coved granolithic skirting. m 329</p> <p><u>INTERNAL PLASTER (PIT WALLS)</u> <u>15mm thick of 1:4 sand cement plaster with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in plaster mix</u></p> <p>3 On walls. m² 120</p>				
Carried To Section Summary			R	
<p>Section No. 3 Bill No. 9 Plastering</p>				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDINGS</u>				
<u>BILL NO. 10</u>				
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
<u>SECTION 3</u>				
<u>BILL No. 10</u>				
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
<u>Quantity Split:</u>				
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:				
A0 - DWG 04 - Staff Ablutions A1 - DWG 06 - Grade R AblutionsA6 - DWG 14 - Male Ablutions AD - DWG 35 - Female Ablutions				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
<u>RAINWATER DISPOSAL:</u>				
<u>Watertite or equal approved Aluminium Gutters and Downpipes:</u>				
1		125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.	m	34
2		Extra over eaves gutter for stopped end.	No	8
3		Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	8
4		100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	32
5		Extra over rainwater downpipe for bends.	No	16
<u>TAPS, VALVES, ETC</u>				
<u>Solid Cast brass taps, valves, etc:</u>				
6		"Cobra KM2-200"or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	26
7		15mm Ball-o-stop valve.	No	14
Carried to Collection				
Section No. 3				
Bill No. 10				
Plumbing And Drainage (provisional)				
			R	

		Unit	Quantity	Rate	Amount
<u>Reducing fittings:</u>					
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.					
<u>Class 10 Polycop pipes:</u>					
25	15mm Pipe chased into brick walls.	m	117		
26	22mm Pipe chased into brick walls.	m	50		
<u>Extra over polycop pipes for compression fittings:</u>					
27	15mm Fittings.	No	86		
28	22mm Fittings.	No	53		
Carried to Collection					R
Section No. 3					
Bill No. 10					
Plumbing And Drainage (provisional)					

Amount

BILL NO. 10

PLUMBING AND DRAINAGE (PROVISIONAL)

COLLECTION

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Section No. 3

Bill No. 10

Plumbing And Drainage (provisional)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>BUILDINGS</u> <u>BILL NO. 11</u> <u>PAINTWORK</u></p> <p><u>SECTION 3</u> <u>BILL No. 11</u> <u>PAINTWORK</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 04 - Staff Ablutions A1 - DWG 06 - Grade R AblutionsA6 - DWG 14 - Male Ablutions AD - DWG 35 - Female Ablutions</p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Trade Names</u> Where trade names are specified it will read "or equal approved"</p> <p><u>Epoxy paint</u> 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.</p>				
<p>Section No. 3 Bill No. 11 Paintwork</p>			<p>Carried to Collection</p>	<p>R</p>

	Unit	Quantity	Rate	Amount
<u>PAINTWORK ETC TO NEW WORK</u>				
<u>ON WOOD</u>				
<u>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:</u>				
1	m ²	76		
2	m ²	24		
<u>Prepare and apply two coats carbolonium on:</u>				
3	m ²	26		
<u>ON FIBRE-CEMENT</u>				
<u>Prepare and apply two coats pure acrylic roof paint on:</u>				
4	m ²	18		
<u>ON PVC VENT PIPE</u>				
<u>Prepare and apply two coats black PVA paint:</u>				
5	m ²	68		
Carried to Collection				
Section No. 3				
Bill No. 11				
Paintwork				
			R	

Amount

BILL NO. 11
PAINTWORK
COLLECTION

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Section No. 3
Bill No. 11
Paintwork

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SECTION NO. 3

BUILDINGS

SECTION SUMMARY

Bill No.

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11	PAINTWORK	3-40

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Section No. 3
SECTION SUMMARY

SECTION NO. 4
EXTERNAL WORKS

	Unit	Quantity	Rate	Amount	
<p><u>SECTION NO. 4</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 1</u> <u>EXTERNAL WORKS (PROVISIONAL)</u></p>					
<p><u>SECTION No. 4</u> <u>BILL No. 1</u> <u>EXTERNAL WORKS (PROVISIONAL)</u> <u>MODEL PREAMBLES</u></p>					
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>					
<p><u>THE FOLLOWING IN PLATFORMS, ETC.</u></p>					
<p><u>Site Clearance, ETC</u></p>					
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.	m ²	3 145	
2		Stripping average 200mm thick layer of topsoil and stockpiling on site.	m ²	2 780	
<p><u>Open face excavation not exceeding 2m deep:</u></p>					
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.	m ³	815	
<p><u>Extra over all excavations for carting away:</u></p>					
4		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	140	
<p><u>Earth filling from excavated material</u></p>					
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.	m ³	675	
Carried to Collection					R
<p>Section No. 4 Bill No. 1 External Works (provisional)</p>					

	Unit	Quantity	Rate	Amount
<u>Surface Preparation:</u>				
6				
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.	m ²	1 560		
<u>Prescribed density tests on filling:</u>				
7				
Modified AASHTO Density test.	No	20		
<u>THE FOLLOWING IN WALKWAYS</u>				
<u>Excavation not exceeding 2m deep</u>				
8				
Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	63		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
9				
Off site to a dumping site to be found by the Contractor.	m ³	32		
<u>Filling supplied by the contractor under walkways</u>				
10				
G7 Base course material compacted to 98% Mod AASHTO density	m ³	32		
11				
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.	m ³	32		
<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
12				
Under floors,etc.	m ²	105		
<u>Prescribed density tests on filling:</u>				
13				
In-situ dry density test.	No	20		
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
14				
Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m ²	349		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
External Works (provisional)				

		Unit	Quantity	Rate	Amount
<u>Compaction of surfaces</u>					
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.	m ²	106		
<u>25 Mpa/19mm Concrete</u>					
24	Strip footings.	m ³	8		
<u>Test blocks:</u>					
25	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
<u>Reinforcement (Provisional)</u>					
26	High tensile steel reinforcement bars to structural concrete work.	Tonnes	1		
<u>BRICKWORK IN FOUNDATIONS.</u>					
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.	m ²	6		
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):					
28	One brick walls.	m ²	60		
<u>Brickwork reinforcement:</u>					
29	230mm Wide reinforcement built in horizontally.	m	240		
30	Ditto but in foundations.	m	1 050		
<u>FACE BRICK</u>					
<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>					
31	One brickwall faced on both sides.	m ²	60		
Carried to Collection					R
Section No. 4					
Bill No. 1					
External Works (provisional)					

	Unit	Quantity	Rate	Amount
<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>				
32	m	40		
<u>ACCESS RAMPS</u>				
<u>Excavation not exceeding 2m deep</u>				
33	m ³	106		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
34	m ³	53		
<u>Filling supplied by the contractor under floors, aprons, etc</u>				
35	m ³	53		
36	m ³	53		
<u>Coarse river sand filling supplied by the contractor:</u>				
37	m ³	26		
<u>Compaction of surfaces:</u>				
38	m ²	212		
<u>Prescribed density tests on filling:</u>				
39	No	4		
<u>Reinforced 25Mpa/19mm Concrete:</u>				
40	m ³	16		
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
41	m ²	105		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
External Works (provisional)				

	Unit	Quantity	Rate	Amount
<u>Prescribed density tests on filling:</u>				
52	No	12		
<u>In-situ dry density test.</u>				
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
53	m ²	490		
<u>Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.</u>				
<u>150-175mm diameter bollards</u>				
54	No	45		
<u>2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.</u>				
<u>THE FOLLOWING IN RETAINING WALLS, ETC.</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
55	m ³	49		
<u>Trenches.</u>				
<u>Risk of collapse of excavations:</u>				
56	m ²	97		
<u>Sides of trench and hole excavations not exceeding 1,5m deep.</u>				
<u>Keeping excavations free of water:</u>				
57	Item			
<u>Keeping excavations free of all water other than subterranean water.</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
58	m ³	25		
<u>Off site to a dumping site to be found by the Contractor.</u>				
<u>Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
59	m ³	25		
<u>Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density</u>				
<u>Compaction of surfaces</u>				
60	m ²	49		
<u>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.</u>				
<u>15Mpa/19mm Concrete</u>				
61	m ³	5		
<u>Surface blinding under footings and bases.</u>				
			R	
Carried to Collection				
Section No. 4				
Bill No. 1				
External Works (provisional)				

	Unit	Quantity	Rate	Amount
<p><u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u></p>				
71	19mm Stone.	m ³	10	
<p><u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u></p> <p><u>STORMWATER APRONS</u></p> <p><u>Excavation not exceeding 2m deep</u></p>				
72	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	103	
<p><u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u></p>				
73	Off site to a dumping site to be found by the Contractor.	m ³	52	
<p><u>Filling supplied by the contractor under floors, aprons, etc</u></p>				
74	G7 Base course material compacted to 98% Mod AASHTO density	m ³	51	
75	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.	m ³	51	
<p><u>Coarse river sand filling supplied by the contractor:</u></p>				
76	Under floors etc.	m ³	34	
<p><u>Compaction of surfaces:</u></p>				
77	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.	m ²	342	
<p><u>Prescribed density tests on filling:</u></p>				
78	In-situ dry density test.	No	8	
<p><u>Reinforced 25Mpa/19mm Concrete:</u></p>				
79	Surface beds cast in panels on waterproofing.	m ³	34	
80	Edge thickening	m ³	4	
Carried to Collection				
Section No. 4				
Bill No. 1				
External Works (provisional)				
			R	

	Unit	Quantity	Rate	Amount
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
81	m ²	342		
<u>Test blocks:</u>				
82	No	4		
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
83	m	48		
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
84	m	48		
<u>Fabric reinforcement:</u>				
85	m ²	342		
<u>Waterproofing under Surface beds</u>				
86	m ²	342		
<u>STORMWATER CHANNELS</u>				
<u>Excavation not exceeding 2m deep</u>				
87	m ³	176		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
88	m ³	88		
<u>Filling supplied by the contractor under channels</u>				
89	m ³	44		
90	m ³	44		
			R	
Section No. 4				
Bill No. 1				
External Works (provisional)				
Carried to Collection				

	Unit	Quantity	Rate	Amount
<u>Manholes:</u>				
97	No	2		
<p>Manhole size 600 x 600mm not exceeding 1m deep internally to invert level formed of hard burnt half brick sides in 1:3 cement mortar on and including 100mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom reinforced with Y10 bars at 200c/c both directions and projecting 150mm beyond sides, cast on 50mm thick concrete Blinding (15Mpa) and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with with C.I step irons staggered at 300c/c with 150mm thick grade 25 reinforced precast concrete manhole cover rebated for and fitted with and including cast iron double seal cover and frame type 14B in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in to allow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc</p>				
<u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
98	m ³	23		
Trenches.				
<u>Extra over all excavations for carting away:</u>				
99	m ³	12		
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.				
<u>Risk of collapse of excavations:</u>				
100	m ²	46		
Sides of trench and hole excavations not exceeding 1,5m deep.				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
101	m ³	12		
Backfilling to trenches, holes, etc.				
<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
102	m ³	7		
Under footings.				
<u>Compaction of surfaces</u>				
103	m ²	46		
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.				
			R	
Carried to Collection				
Section No. 4				
Bill No. 1				
External Works (provisional)				

		Unit	Quantity	Rate	Amount
	FACE BRICK				
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2(Cement to be 42.5N all-purpose cement):</u>				
114	Extra over brickwork for face brickwork externally.	m ²	94		
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>				
115	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	40		
	<u>Plastic water tanks etc:</u>				
116	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	5		
117	Hole top of tank for 100mm pipe.	No	5		
	<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>				
	<u>Site clearance</u>				
118	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m ²	61		
	<u>Straining wires, fencing and razor wire:</u>				
119	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	121		
120	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	121		
	Carried to Collection				
	Section No. 4				
	Bill No. 1				
	External Works (provisional)				
				R	

Unit Quantity Rate Amount

129 Two leafed vehicular swing gate. Size 5500mm x 1800mm high.

No 1

PADLOCKS

130 Supply 50 mm "Viro" Padlocks and Keys (or equal approved)

No 2

Carried to Collection

R

Section No. 4
 Bill No. 1
 External Works (provisional)

Amount

BILL NO. 1

EXTERNAL WORKS (PROVISIONAL)

COLLECTION

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Section No. 4

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External Works (provisional)

Amount

SECTION NO. 4

EXTERNAL WORKS

SECTION SUMMARY

Bill No.

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EXTERNAL WORKS (PROVISIONAL)

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SECTION SUMMARY

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SECTION NO. 5
PROVISIONAL SUMS

Amount

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PROVISIONAL SUMS

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 thereto.

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:

- 1 Provide the sum of R58 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (9 months)
- 2 Add: Mark-up

Item

Item

Carried to Final Summary

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Section No. 5
 Bill No. 1
 Provisional Sums

Section No.	<u>FINAL SUMMARY</u>	Page	Amount	
1	PRELIMINARIES	1-22		
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3	BUILDINGS	3-41		
4	EXTERNAL WORKS	4-19		
5	PROVISIONAL SUMS	5-2		
	ADD: CONTINGENCIES			
	Allow the Amount of R210 000.00(Two Hundred and Ten Thousand Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.		210 000 00	
	SubTotal excluding Value Added Tax			
	ADD VAT @ 15%:			
	Carried to Tender		R	
	FINAL SUMMARY			