



SANITATION APPROPRIATE FOR EDUCATION (SAFE) PROGRAMME BATCH 5

CONSTRUCTION OF ABLUTION FACILITIES AT ESINGENI PS

PROVISIONAL BILLS OF QUANTITIES

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SECTION NO. 1
PRELIMINARIES

SECTION NO. 1

PRELIMINARIES

BILL NO. 1

PRELIMINARIES

Preambles:

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.

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.

Carried to Collection

R

Section No. 1

Bill No. 1

Preliminaries

Amount

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).

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).

Carried to Collection

R

Section No. 1

Bill No. 1

Preliminaries

Amount

		Amount
<u>COMPLETION</u>		
	Practical completion (Clause 24).	
24	F: V: T:	Item
	Works completion (Clause 25).	
25	F: V: T:	Item
	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	
26	F: V: T:	Item
	Sectional completion (Clause 28).	
27	F: V: T:	Item
28	F: V: T:	Item
29	F: V: T:	Item
	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.	
	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
	Carried to Collection	R
	Section No. 1	
	Bill No. 1	
	Preliminaries	

Amount

	Final account and final payment (Clause 34).	Item	
32	F: V: T:		
	Payment to other parties (Clause 35).	Item	
33	F: V: T:		
	<u>CANCELLATION</u>		
	Cancellation by Employer - Contractor's default (Clause 36).	Item	
34	F: V: T:		
	Cancellation by Employer - Loss and damage (Clause 37).	Item	
35	F: V: T:		
	Cancellation by Contractor - Employer's default (Clause 38).	Item	
36	F: V: T:		
	<u>DISPUTE</u>		
	Dispute Settlement (Clause 40)	Item	
37	F: V: T:		
	<u>SUBSTITUTE PROVISIONS</u>		
	State Clauses (Clause 41)	Item	
38	F: V: T:		
	<u>CONTRACT VARIABLES</u>		
	The Schedule: Pre-Tender information (Clause 42).	Item	
39	F: V: T:		
	<u>CONTRACTING AND OTHER PARTIES (Clause 42.1)</u>		
	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: Excel Quantity Surveyors		
	Postal Address: 48 Flamingo Drive, Southernwood, Mthatha, 5099		
	Telephone: 047 531 0424		
	Facsimile: 086 548 3313		
	Physical address: 48 Flamingo Drive, Southernwood, Mthatha, 5099		
	<u>CONTRACT DETAILS (Clause 42.2)</u>		
	Clause 42.2.1		
	Carried to Collection	R	
	Section No. 1		
	Bill No. 1		
	Preliminaries		

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 R2 000 per calendar day.

Clause 42.2.8

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

N/A

Clause 42.2.9

INSURANCES (Clause 42.3)

Clause 42.3.1

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

Carried to Collection

R

Section No. 1

Bill No. 1

Preliminaries

Amount

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

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

40 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.

41 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.

Carried to Collection

R

Section No. 1

Bill No. 1

Preliminaries

		Amount
42	F: V: T: Availability of construction documentation (B2.3)	Item
43	F: V: T: Interests of Agents (B2.4)	Item
44	F: V: T: Priced documents (B2.5)	Item
45	F: V: T: 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.	Item
46	F: V: T: <u>THE SITE (B3)</u> 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.	Item
47	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item
48	F: V: T: Inspection of the Site (B3.3)	Item
49	F: V: T: Existing premises occupied (B3.4)	Item
50	F: V: T: Previous work - dimensional accuracy (B3.5)	Item
51	F: V: T: Services - known (B3.7)	Item
52	F: V: T: Services - unknown (B3.8)	Item
53	F: V: T:	Item
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		Amount
54	Protection of trees (B3.9) F: V: T:	Item
55	Articles of value (B3.10) F: V: T:	Item
56	Inspection of adjoining properties (B3.11) F: V: T:	Item
<u>MANAGEMENT OF CONTRACT (B4)</u>		
57	Management of the Works (B4.1) F: V: T:	Item
58	Programme for the Works (B4.2) F: V: T:	Item
59	Progress meetings (B4.3) F: V: T:	Item
60	Technical meetings (B4.4) F: V: T:	Item
<u>SAMPLES AND SHOP DRAWINGS (B5)</u>		
61	Samples of materials (B5.1) F: V: T:	Item
62	Workmanship samples (B5.2) F: V: T:	Item
63	Shop drawings (B5.3) F: V: T:	Item
<u>TEMPORARY WORKS AND PLANT (B6)</u>		
64	Deposits and fees (B6.1) F: V: T:	Item
65	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. F: V: T:	Item
66	Advertising (B6.3) F: V: T:	Item
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		Amount
67	Plant and equipment (B6.4) F: V: T:	Item
68	Main notice board (B6.5) One notice board shall be provided by the Contractor F: V: T:	Item
69	Subcontractors notice board (B6.6) (N/A) F: V: T:	Item
<u>TEMPORARY SERVICES (B7)</u>		
70	Location (B7.1) F: V: T:	Item
71	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). F: V: T:	Item
72	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). F: V: T:	Item
73	Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). F: V: T:	Item
74	The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). F: V: T:	Item
<u>PRIME COST AMOUNTS (B8)</u>		
75	Responsibility for prime cost amounts (B8.1) F: V: T:	Item
<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>		
76	General Attendance (B9.1) F: V: T:	Item
	Special Attendance (B9.2)	
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77	F: V: T: Commissioning - fuel, water and power (B9.3)	Item	
78	F: V: T: 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).	Item	
79	F: V: T: Payment of Preliminaries (B10.2)	Item	
80	F: V: T: Adjustment of Preliminaries (B10.3)	Item	
81	F: V: T: Payment certificate cash flow (B10.4)	Item	
82	F: V: T: Contractor information supply (B10.5)	Item	
83	F: V: T: GENERAL (B11) Protection of the Works (B11.1)	Item	
84	F: V: T: Protection/isolation of existing/sectionally occupied works (B11.2)	Item	
85	F: V: T: Site security (B11.3)	Item	
86	F: V: T: Notice before covering work (B11.4)	Item	
87	F: V: T: Disturbance (B11.5)	Item	
88	F: V: T: Works cleaning and clearing (B11.6)	Item	
89	F: V: T: Vermin (B11.7)	Item	
90	F: V: T: Overhand work (B11.8)	Item	
	Carried to Collection	R	
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91 F: V: T:

Item

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.

92 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.

93 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.

94 F: V: T:

Item

C4. Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

95 F: V: T:

Item

C5. As built drawings

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

96 F: V: T:

Item

C6. Construction Instructions

Carried to Collection

R

Section No. 1

Bill No. 1

Preliminaries

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:

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.

97 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.

98 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.

99 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.

100 F: V: T:

Item

C10. Method Statement

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 Preliminaries

	<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>		
101	<p>F: V: T:</p>	Item	
	<p>C11. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p>		
102	<p>F: V: T:</p>	Item	
	<p>C12. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p>		
103	<p>F: V: T:</p>	Item	
	<p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p>		
104	<p>F: V: T:</p>	Item	
	<p>C14. Office accommodation</p>		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	R	<hr/> <hr/>

Amount

	<p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p>	Item	
105	F: V: T:		
	C15. Storage Facilities		
106	The Contractor shall provide a Container for storage of materials.	Item	
107	F: V: T:	Item	
	C16. Removal and Making Good of Temporary Works, etc, on Completion		
	<p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p>		
108	F: V: T:	Item	
109	SUB - TOTAL: FIXED ITEMS	Item	
110	SUB - TOTAL: VALUE - RELATED ITEMS	Item	
111	SUB - TOTAL: TIME - RELATED ITEMS	Item	
<p>Section No. 1 Bill No. 1 Preliminaries</p>	Carried to Collection	R	<hr/>
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Section No. 1
Bill No. 1
Preliminaries

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u>				
<u>PRELIMINARIES</u>				
<u>BILL NO. 2</u>				
<u>HEALTH AND SAFETY</u>				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
<u>SUPPLEMENTARY PREAMBLES</u>				
Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.				
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.				
Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.				
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.				
The costs included herein must incorporate Community Liaison Officer (CLO).				
<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
<u>General:</u>				
1				
	Item			
2				
	Item			
3				
	Item			
Carried to Collection			R	
Section No. 1				
Bill No. 2				
Health And Safety				

	Unit	Quantity	Rate	Amount
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	2	
	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 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.			
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	136	
9	Extra over mesh fence for double leaf gate size 5.5 x 1,8m high.	No	1	
	<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	80	
14	Dust Masks.	No	120	
	<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	20	
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Bill No. 2				
Health And Safety				

Unit Quantity Rate Amount

C16. Covid-19 Compliance Measures

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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 Bill No. 2
 Health And Safety

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HEALTH AND SAFETY
COLLECTION

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SECTION NO. 1

PRELIMINARIES

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Section No. 1
SECTION SUMMARY

SECTION NO. 2
DEMOLITIONS (PROVISIONAL)

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>DEMOLITIONS (PROVISIONAL)</u> <u>BILL NO. 1</u> <u>DEMOLITIONS</u></p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated.</p> <p><u>General</u> Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.</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><u>Removal of asbestos material</u> 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 style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 1 Demolitions</p>			R	

	Unit	Quantity	Rate	Amount
<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	2		
2	No	1		
3	No	1		
			Carried to Collection	R
Section No. 2				
Bill No. 1				
Demolitions				

	Unit	Quantity	Rate	Amount
4 Cart away rubble from demolitions and dispose off site.	Item			
5 Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density.	m ³	224		
6 Allow for compaction tests by an approved laboratory to determine density of filling material.	No	12		
<u>SUNDRIES</u>				
7 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	28		
8 Issue of Certificate of Waste Disposal.	Item			
Carried to Collection				
Section No. 2				
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Demolitions				
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DEMOLITIONS
COLLECTION

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Demolitions

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SECTION NO. 2

DEMOLITIONS (PROVISIONAL)

SECTION SUMMARY

Bill No.

1

DEMOLITIONS

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SECTION SUMMARY

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SECTION NO. 3
BUILDINGS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>BUILDINGS</u> <u>BILL NO. 1</u> <u>EARTHWORKS (PROVISIONAL)</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 40 - Learners & Staff Ablution A1 - DWG 36 - Grade R Ablution.</p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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>Nature of material to be excavated:</u> The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".</p> <p><u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p> <p><u>Dewatering of excavations:</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 1 Earthworks (provisional)</p>			R	

	Unit	Quantity	Rate	Amount
<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	8
2		Holes.	m ³	92
3		Reduced levels under floors.	m ³	32
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
4		Soft rock.	m ³	30
5		Hard rock.	m ³	20
<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	133
<u>Risk of collapse of excavations:</u>				
7		Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	29
8		Ditto, but from ground level to exceeding 1,5m.	m ²	89
Carried to Collection				
Section No. 3				
Bill No. 1				
Earthworks (provisional)				
			R	

	Unit	Quantity	Rate	Amount
<u>Keeping excavations free of water:</u>				
9	Item			
Keeping excavations free from mud and all water including subterranean sources.				
<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	m ³	2		
Backfilling to trenches, holes, etc.				
11	m ³	8		
Under floors, steps, pavings, trenches, etc.				
<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	m ³	20		
Under floors, steps, pavings, trenches, etc.				
<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	m ³	14		
Under floors, steps, pavings, trenches, etc.				
14	m ³	6		
Backfilling to holes, trenches, etc.				
<u>Coarse river sand filling supplied by the contractor:</u>				
15	m ³	5		
Under floors etc.				
<u>Compaction of surfaces:</u>				
16	m ²	94		
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.				
<u>Prescribed density tests on filling:</u>				
17	No	16		
Allow for compaction tests by an approved laboratory to determine density of filling material.				
<u>SOIL POISONING</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>				
18	m ²	58		
Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.				
Carried to Collection			R	
Section No. 3				
Bill No. 1				
Earthworks (provisional)				

19	To bottoms and sides of holes, etc.	Unit	Quantity	Rate	Amount
		m ²	125		
Carried to Collection				R	

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

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BILL NO. 1
EARTHWORKS (PROVISIONAL)
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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>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 40 - Learners & Staff Ablution A1 - DWG 36 - Grade R Ablution</p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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. 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 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
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.				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15Mpa/19mm Concrete</u>				
1 Surface blinding under footings and bases.	m ³	3		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/20mm concrete:</u>				
2 Raft slab on waterproofing.	m ³	18		
3 Ground base slabs.	m ³	7		
<u>REINFORCED CONCRETE CAST IN FORMWORK</u>				
<u>30MPa/20mm concrete:</u>				
4 Suspended Slabs.	m ³	7		
5 Cavity walls.	m ³	10		
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
6 Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	12		
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
7 Surface beds, suspended slabs, base slabs, etc.	m ²	94		
<u>Finishing top surfaces of concrete smooth with a steel float:</u>				
8 Surface beds, suspended slabs, etc.	m ²	16		
<u>Charmfers at corners</u>				
9 19 x 19mm triangular fillet at internal corners of bottom slab.	m	33		
Carried to Collection			R	
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
<u>Rough Formwork to Sides:</u>				
10				
Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	35		
<u>Permanent Formwork:</u>				
11				
Soffit of slab over pit.	m ²	31		
<u>Extra on permanent formwork for boxing or blocking in or boxing out to form:</u>				
12				
835mm diameter circular opening through 370mm thick slab.	No	2		
13				
450mm Diameter opening through 255mm thick slab.	No	2		
14				
200mm Diameter opening through 255mm thick slab.	No	3		
15				
150mm Diameter opening through 255mm thick slab.	No	2		
16				
110mm Diameter opening through 255mm thick slab.	No	7		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
<u>Smooth Formwork to Sides:</u>				
17				
Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	17		
<u>REINFORCEMENT (PROVISIONAL)</u>				
18				
High tensile steel reinforcement bars to structural concrete work.	Tonnes	2		
<u>Fabric reinforcement:</u>				
19				
REF. 888 fabric reinforcement in concrete footings, walls, base slabs etc.	m ²	231		
Carried to Collection				
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				
			R	

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
<p><u>SECTION NO. 3</u> <u>BUILDINGS</u> <u>BILL NO. 3</u> <u>MASONRY</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 40 - Learners & Staff Ablution A1 - DWG 36 - Grade R Ablution</p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. All references to SABS shall be deemed to be the relevant SANS specification</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>BRICKWORK</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Hollow walls etc</u> 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 "Brixéal" bitumen emulsion waterproofing coating. <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 3 Masonry</p>			R	

	Unit	Quantity	Rate	Amount
<p><u>Samples</u></p> <p>Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site</p> <p><u>Trade names</u></p> <p>Where trade names are specified it will read "or equal approved"</p> <p><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></p> <p><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></p>				
1	m ²	73		
<p><u>BRICKWORK AND BLOCKWORK SUNDRIES</u></p> <p><u>Galvanized brickwork reinforcement</u></p>				
2	m	251		
<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>				
3	m ²	6		
Carried to Collection				
Section No. 3				
Bill No. 3				
Masonry				
			R	

Amount

BILL NO. 3
MASONRY
COLLECTION

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Section No. 3
Bill No. 3
Masonry

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>BUILDINGS</u> <u>BILL NO. 4</u> <u>WATERPROOFING</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 40 - Learners & Staff Ablution A1 - DWG 36 - Grade R Ablution</p> <p><u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</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>Waterproofing</u> Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit). 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.</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No. 4 Waterproofing</p>			R	

	Unit	Quantity	Rate	Amount
<p>Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.</p> <p>Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.</p> <p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></p>				
1	m ²	94		
<p><u>WATERPROOFING TO PIT WALLS</u></p> <p><u>Waterproofing product to plastered walls, subject to approval by the Principal Agent prior to application.</u></p>				
2	m ²	73		
Carried to Collection			R	
Section No. 3 Bill No. 4 Waterproofing				

Amount

BILL NO. 4
WATERPROOFING
COLLECTION

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Section No. 3
Bill No. 4
Waterproofing

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDINGS</u>				
<u>BILL NO. 5</u>				
<u>IRONMONGERY</u>				
<u>Quantity Split:</u>				
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:				
A0 - DWG 40 - Learners & Staff Ablution				
A1 - DWG 36 - Grade R Ablution				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Keys/Locks</u>				
Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys				
<u>Trade Names</u>				
Where trade names are specified other ironmongery approved by the Principal Agent may be used				
<u>Fixing</u>				
Fixing of ironmongery is deemed to be fixed to timber unless otherwise described				
<u>SIGN PLATES:</u>				
<u>All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.</u>				
1	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	5	
<u>SUNDRIES</u>				
2	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	2	
3	38mm Diameter black rubber door stop plugged and screwed to wall.	No	8	
			Carried to Collection	R
Section No. 3				
Bill No. 5				
Ironmongery				

	Unit	Quantity	Rate	Amount
<u>Halcast or equal approved"</u>				
4	No	8		
<u>Grade 304 stainless steel ware:</u>				
5	No	2		
6	No	2		
<u>Satin Grey Plastics or equal approved</u>				
7	No	8		
Carried to Collection				
Section No. 3				
Bill No. 5				
Ironmongery				
			R	

Amount

BILL NO. 5
IRONMONGERY
COLLECTION

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Section No. 3
Bill No. 5
Ironmongery

		Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BUILDINGS</u></p> <p><u>BILL NO. 6</u></p> <p><u>PLASTERING</u></p> <p><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 40 - Learners & Staff Ablution</p> <p>A1 - DWG 36 - Grade R Ablution</p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.</p> <p><u>SCREEDS</u></p> <p><u>Untinted granolithic, on concrete:</u></p>					
1	30mm Thick on floors and landings.	m ²	58		
<p><u>INTERNAL PLASTER (PIT WALLS)</u></p> <p><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>					
2	On walls.	m ²	69		
Carried To Section Summary					R
Section No. 3					
Bill No. 6					
Plastering					

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDINGS</u>				
<u>BILL NO. 7</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 40 - Learners & Staff Ablution				
A1 - DWG 36 - Grade R Ablution				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
<u>SANITARY PLUMBING</u>				
<u>PVC waste or vent pipes and fittings:</u>				
1	m	55		
2	m	32		
<u>uPVC gulleys</u>				
3	No	2		
<u>Extra for:</u>				
4	No	24		
5	No	8		
6	No	8		
<u>WATER SUPPLIES</u>				
<u>Polycop pipes:</u>				
Pipes shall be class 10.				
Carried to Collection				
Section No. 3				
Bill No. 7				
Plumbing And Drainage (provisional)				
			R	

Amount

BILL NO. 7

PLUMBING AND DRAINAGE (PROVISIONAL)

COLLECTION

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Bill No. 7

Plumbing And Drainage (provisional)

Amount

SECTION NO. 3

BUILDINGS

SECTION SUMMARY

Bill No.

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2	CONCRETE, FORMWORK AND REINFORCEMENT	38
3	MASONRY	41
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5	IRONMONGERY	47
6	PLASTERING	48
7	PLUMBING AND DRAINAGE (PROVISIONAL)	51

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Section No. 3
SECTION SUMMARY

SECTION NO. 4
EXTERNAL WORKS (PROVISIONAL)

	Unit	Quantity	Rate	Amount
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
24	m ²	9		
<u>Brick reinforcement:</u>				
25	m	39		
26	m	26		
<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>				
27	m ²	17		
<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>				
28	m	26		
<u>SCREEN WALL</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
29	m ³	6		
<u>Extra over all excavations for carting away:</u>				
30	m ³	3		
<u>Risk of collapse of excavations:</u>				
31	m ²	24		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
32	m ³	3		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
External Works (provisional)				

		Unit	Quantity	Rate	Amount
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
43	Off site to a dumping site to be found by the Contractor.	m ³	142		
	<u>Filling supplied by the contractor under driveways</u>				
44	G7 Base course material compacted to 98% Mod AASHTO density	m ³	142		
	<u>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.</u>				
	<u>Rip and recompact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
45	Under floors, etc.	m ²	948		
	<u>Prescribed density tests on filling:</u>				
46	In-situ dry density test.	No	10		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
47	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m ²	948		
	<u>150-175mm diameter bollards</u>				
48	2100mm Long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	79		
	<u>STORMWATER APRONS</u>				
	<u>Excavation not exceeding 2m deep</u>				
49	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	24		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
50	Off site to a dumping site to be found by the Contractor.	m ³	24		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
51	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	24		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works (provisional)				

	Unit	Quantity	Rate	Amount
<u>Coarse river sand filling supplied by the contractor:</u>				
52				
Under floors etc.	m ³	8		
<u>Compaction of surfaces:</u>				
53				
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	158		
<u>Prescribed density tests on filling:</u>				
54				
In-situ dry density test.	No	10		
<u>Reinforced 25Mpa/19mm Concrete:</u>				
55				
Surface beds cast in panels on waterproofing.	m ³	16		
56				
Edge thickening	m ³	5		
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
57				
Surface beds, slabs, etc to falls and currents.	m ²	158		
<u>Test blocks:</u>				
58				
Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
59				
12mm Joints not exceeding 300mm high.	m	211		
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
60				
10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	211		
<u>Fabric reinforcement:</u>				
61				
REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	158		
<u>Waterproofing under Surface beds</u>				
62				
350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m ²	158		
Carried to Collection				
Section No. 4				
Bill No. 1				
External Works (provisional)				
			R	

	Unit	Quantity	Rate	Amount
<u>STORMWATER CHANNELS</u>				
<u>Excavation not exceeding 2m deep</u>				
63				
Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	61		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
64				
Off site to a dumping site to be found by the Contractor.	m ³	29		
<u>Filling supplied by the contractor under channels</u>				
65				
G7 Base course material compacted to 98% Mod AASHTO density	m ³	25		
<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>				
66				
700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	227		
67				
Extra for 700mm angle	No	6		
68				
Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	9		
<u>Fibre gratings:</u>				
69				
50mm Thick fibre grating, size 700 x 1000mm long with 50 x 50 x 4mm galvanised mild steel angle section framing with lugs welded on at 300mm centres and frame cast into concrete.	m	15		
<u>Sundries:</u>				
70				
Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	227		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
External Works (provisional)				

	Unit	Quantity	Rate	Amount
<u>Manholes:</u>				
80	No	1		
<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 HEADWALLS</u>				
81	m ³	2		
82	Item			
83	m ³	2		
84	m ³	0.45		
85	m ³	0.45		
86	m ³	1		
87	m	3		
88	m ²	2		
89	m ²	2		
90	m	12		
91	m ²	4		
92	m	3		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
External Works (provisional)				

	Unit	Quantity	Rate	Amount
93 Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m ²	3		
<u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
94 Trenches.	m ³	11		
<u>Extra over all excavations for carting away:</u>				
95 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m ³	6		
<u>Risk of collapse of excavations:</u>				
96 Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	45		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
97 Backfilling to trenches, holes, etc.	m ³	6		
<u>Filling supplied by the contractor under strip footing, floors etc.</u>				
98 G7 Base course material compacted to 98% Mod AASHTO density	m ³	18		
99 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	1		
<u>Compaction of surfaces</u>				
100 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	25		
<u>25 Mpa/19mm Concrete</u>				
101 Strip footings.	m ³	5		
102 Tank concrete slab.	m ³	1		
<u>Test blocks:</u>				
103 Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
External Works (provisional)				

	Unit	Quantity	Rate	Amount
<u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>				
104	m ²	9		
<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
105	m ²	9		
Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):				
106	m ²	11		
Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):				
107	m ²	24		
<u>Brickwork reinforcement:</u>				
108	m	64		
109	m	64		
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):				
110	m ²	34		
<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>				
111	m	8		
<u>Plastic water tanks etc:</u>				
112	No	4		
113	No	4		
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

Bill No. 1

External Works (provisional)

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EXTERNAL WORKS (PROVISIONAL)

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SECTION NO. 5
PROVISIONAL SUMS

SECTION NO. 5
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.

PRE-FABRICATED STRUCTURES

NOTE: Shop drawings / Specifications will be required for approval by the Principal Agent PRIOR to installation.

The ABT Specialist Supplier must be competent person registered with relevant statutory body, all ABT construction shall comply with SABS standards and approved by AGREEMENT SA.

The Structures to be erected will be as follows:

Learners and Staff ablution structure on concrete slab, size 9400 x 3080 x 3120mm high complete with 4No. external door including security gate, 4No. internal doors, 13No. windows, 5No. WCs, 1No. urinals, 4No. wash hand basin etc. Grade R ablution structure on concrete slab, size 5400 x 3080 x 3120mm high complete with 1No. external doors including security gate, 7No. windows, 1No. WC, 2No. junior WCs, 2No. wash hand basins etc.

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Pre-fabricated Modular Units shall comprise of:

Internal and external walls made of 40mm thick wall panel which consist of 0.5mm rigidised pre-painted white galvanised chromadek sheeting on both sides including base rails, top rails all joined with aluminium rivets.

600 x 600mm high casement type (W1) natural anodised aluminium window including frames and 4mm obscure glass with one top hung opener; Windows are to be secured with aluminium profile burglar proofing.

813 x 2032mm high external doors manufactured from the same materials as the walls and fitted with hinges, five lever mortice lock, complete with striker plates, two keys chrome plated handles, etc.

813 x 1882mm high internal door manufactured from the same materials as the walls and fitted with hinges, 3 lever mortice lock complete with striker plates, two keys chrome plated handles, etc.

Galvanised mild steel security gate 900 x 2050mm high overall size. 2mm thick vinyl sheeting on floors.

The roof is to be 0.5mm Chromadek IBR sheeting mono pitched roof with mono pitched galvanised ridge capping, 255mm lapping secured onto the roof including light steel frame roof at 6 degree slope.

125mm half round PVC gutters including gutter brackets at 1000mm centres with 75mm rainwater PVC fluted downpipes connected to 5000L plastic water tanks (elsewhere measured).

Medium density plain un-grooved fascia boards.

85 x 275 x 6.0mm barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.

Plumbing and sanitary fittings shall comprise of WCs, Urinals, Wash hand basins, 15mm and 22mm polycop water supply pipes, 50mm diameter PVC drainage pipes and associated accessories.

1	Provide the sum of R655 000.00 for the supply and installation of Alternative Building Technology (ABT) toilet structures, as above described, by a nominated sub-contractor.		Item	655,000	00
2	Add: Profit on above	1	%		
3	Add: Attendance on above	1	%		
<u>ELECTRICAL INSTALLATION</u>					
4	Provide the sum of R80 000.00 for Electrical supply cables, flexible sleeves, terminations and lightning protection including COCs.		Item	80,000	00
5	Add: Profit on above	1	%		
6	Add: Attendance on above	1	%		

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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:

7	Provide the sum of R58 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (9 months)		Item	58,500 00
8	Add: Profit on above	1	%	
9	Add: Attendance on above	1	%	

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ADD: CONTINGENCIES

Allow five percent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.

0 00

SubTotal excluding Value Added Tax

ADD VAT @ 15%:

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