

BILLS OF QUANTITIES

FOR

**YELLOWWOODS FARM SCHOOL - SANITATION APPROPRIATE FOR
EDUCATION (SAFE) PROGRAMME - NELSON MANDELA BAY
METROPOLITAN MUNICIPALITY**

FOR

The Mvula Trust

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SECTION NO. 1
PRELIMINARIES

SECTION NO. 1

PRELIMINARIES

BILL NO. 1

PRELIMINARIES

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.
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

SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

- 1 F: V: T:
F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

- 2 F: V: T:
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:
F: V: T:

Item

Design responsibility (Clause 4).

- 4 F: V: T:
F: V: T:

Item

Employer's agents (Clause 5).

- 5 F: V: T:
F: V: T:

Item

Site representative (Clause 6).

- 6 F: V: T:
F: V: T:

Item

Compliance with regulations (Clause 7).

- 7 F: V: T:
F: V: T:

Item

Works risk (Clause 8)

- 8 F: V: T:
F: V: T:

Item

Indemnities (Clause 9).

Clause 9.1.1 is deleted and substituted with:

Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.

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9	F: V: T: F: V: T: Works insurances (Clause 10).	Item		
10	F: V: T: F: V: T: Liability insurances (Clause 11).	Item		
11	F: V: T: F: V: T: Effecting insurances (Clause 12).	Item		
12	F: V: T: F: V: T: State Provisions (Clause 13).	Item		
13	F: V: T: F: V: T: Security (Clause 14).	Item		
14	F: V: T: F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
15	F: V: T: F: V: T: Access to the works (Clause 16).	Item		
16	F: V: T: F: V: T: Contract instructions (Clause 17).	Item		
17	F: V: T: F: V: T: Setting out of the works (Clause 18.3). The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: V: T: F: V: T: Assignment (Clause 19).	Item		
19	F: V: T: F: V: T:	Item		
Carried to Collection			R	
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		Amount
	Nominated subcontractors (Clause 20).	
20	F: V: T: F: V: T: Selected subcontractors (Clause 21).	Item
21	F: V: T: F: V: T: Employer's Direct contractors (Clause 22).	Item
22	F: V: T: F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item
23	F: V: T: F: V: T: <u>COMPLETION</u>	Item
	Practical completion (Clause 24).	
24	F: V: T: F: V: T: Works completion (Clause 25).	Item
25	F: V: T: F: V: T: Final completion (Clause 26).	Item
	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: F: V: T: Sectional completion (Clause 28).	Item
27	F: V: T: F: V: T: Revision of date for practical completion (Clause 29).	Item
28	F: V: T: F: V: T:	Item
	Carried to Collection	R
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	Preliminaries	

		Amount
29	Penalty for non-completion (Clause 30). F: V: T: F: V: T: <u>PAYMENT</u> 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).	Item
30	F: V: T: F: V: T: Recovery of expense and loss (Clause 33).	Item
31	F: V: T: F: V: T: Final account and final payment (Clause 34).	Item
32	F: V: T: F: V: T: Payment to other parties (Clause 35).	Item
33	F: V: T: F: V: T: <u>CANCELLATION</u> Cancellation by Employer - Contractor's default (Clause 36).	Item
34	F: V: T: F: V: T: Cancellation by Employer - Loss and damage (Clause 37).	Item
35	F: V: T: F: V: T: Cancellation by Contractor - Employer's default (Clause 38).	Item
36	F: V: T: F: V: T: Cancellation - Cessation of the works (Clause 39).	Item
Carried to Collection		R
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		Amount
37	F: V: T: F: V: T: <u>DISPUTE</u> Dispute Settlement (Clause 40)	Item
38	F: V: T: F: V: T: <u>SUBSTITUTE PROVISIONS</u> State Clauses (Clause 41)	Item
39	F: V: T: F: V: T: <u>CONTRACT VARIABLES</u> The Schedule: Pre-Tender information (Clause 42).	Item
40	F: V: T: 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: 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 <u>CONTRACT DETAILS (Clause 42.2)</u> 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.	Item
Carried to Collection		R
Section No. 1		
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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 R2000 per calendar day, to a maximum of 10% of Contract Value.

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

With a deductible of : 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 insured amount.

DOCUMENTS (Clause 42.4)

Clause 42.4.1

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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)

41 F: V: T:

F: V: T:

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:

F: V: T:

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:

F: V: T:

Availability of construction documentation (B2.3)

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Preliminaries

		Amount	
44	F: V: T: F: V: T: Interests of Agents (B2.4)	Item	
45	F: V: T: F: V: T: Priced documents (B2.5)	Item	
46	F: V: T: 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	
47	F: V: T: 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	
48	F: V: T: F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item	
49	F: V: T: F: V: T: Inspection of the Site (B3.3)	Item	
50	F: V: T: F: V: T: Existing premises occupied (B3.4)	Item	
51	F: V: T: F: V: T: Previous work - dimensional accuracy (B3.5)	Item	
52	F: V: T: F: V: T: Previous work - defects (B3.6)	Item	
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			Amount	
53	F: V: T: F: V: T: Services - known (B3.7)	Item		
54	F: V: T: F: V: T: Services - unknown (B3.8)	Item		
55	F: V: T: F: V: T: Protection of trees (B3.9)	Item		
56	F: V: T: F: V: T: Articles of value (B3.10)	Item		
57	F: V: T: F: V: T: Inspection of adjoining properties (B3.11)	Item		
58	F: V: T: F: V: T: <u>MANAGEMENT OF CONTRACT (B4)</u> Management of the Works (B4.1)	Item		
59	F: V: T: F: V: T: Programme for the Works (B4.2)	Item		
60	F: V: T: F: V: T: Progress meetings (B4.3)	Item		
61	F: V: T: F: V: T: Technical meetings (B4.4)	Item		
62	F: V: T: F: V: T: <u>SAMPLES AND SHOP DRAWINGS (B5)</u> Samples of materials (B5.1)	Item		
63	F: V: T: F: V: T: Workmanship samples (B5.2)	Item		
64	F: V: T: F: V: T: Shop drawings (B5.3)	Item		
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Preliminaries				

		Amount
65	F: V: T: F: V: T: TEMPORARY WORKS AND PLANT (B6) Deposits and fees (B6.1)	Item
66	F: V: T: F: V: T: 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.	Item
67	F: V: T: F: V: T: Advertising (B6.3)	Item
68	F: V: T: F: V: T: Plant and equipment (B6.4)	Item
69	F: V: T: F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item
70	F: V: T: F: V: T: Subcontractors notice board (B6.6) (N/A)	Item
71	F: V: T: F: V: T: TEMPORARY SERVICES (B7) Location (B7.1)	Item
72	F: V: T: F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item
73	F: V: T: F: V: T: Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item
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		Item	Amount
74	F: V: T: F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
75	F: V: T: F: V: T: Ablution facilities (B7.5) The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item	
76	F: V: T: F: V: T: <u>PRIME COST AMOUNTS (B8)</u> Responsibility for prime cost amounts (B8.1)	Item	
77	F: V: T: F: V: T: <u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u> General Attendance (B9.1)	Item	
78	F: V: T: F: V: T: Special Attendance (B9.2)	Item	
79	F: V: T: F: V: T: Commissioning - fuel, water and power (B9.3)	Item	
80	F: V: T: F: V: T: <u>FINANCIAL ASPECTS (B10)</u> Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).	Item	
81	F: V: T: F: V: T: Payment of Preliminaries (B10.2)	Item	
82	F: V: T: F: V: T: Adjustment of Preliminaries (B10.3)	Item	
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83	F: V: T: F: V: T: Payment certificate cash flow (B10.4)	Item
84	F: V: T: F: V: T: Contractor information supply (B10.5)	Item
85	F: V: T: F: V: T: <u>GENERAL (B11)</u> Protection of the Works (B11.1)	Item
86	F: V: T: F: V: T: Protection/isolation of existing/sectionally occupied works (B11.2)	Item
87	F: V: T: F: V: T: Site security (B11.3)	Item
88	F: V: T: F: V: T: Notice before covering work (B11.4)	Item
89	F: V: T: F: V: T: Disturbance (B11.5)	Item
90	F: V: T: F: V: T: Works cleaning and clearing (B11.6)	Item
91	F: V: T: F: V: T: Vermin (B11.7)	Item
92	F: V: T: F: V: T: Overhand work (B11.8)	Item
93	F: V: T: F: V: T:	Item

SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

Carried to Collection

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		Amount
94	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. F: V: T: F: V: T: 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.	Item
95	F: V: T: F: V: T: 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.	Item
96	F: V: T: F: V: T: 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.	Item
97	F: V: T: F: V: T: C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.	Item
98	F: V: T: F: V: T:	Item
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		Amount
99	C6. Construction Instructions	
	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:	
100	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.	
101	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.	
102	F: V: T:	Item
	F: V: T:	
103	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.	
104	F: V: T:	Item
	F: V: T:	
105	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.	
106	F: V: T:	Item
	F: V: T:	
107	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.	
108	F: V: T:	Item
	F: V: T:	
109	C10. Method Statement	
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		Amount
103	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. F: V: T: F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item
104	F: V: T: F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.	Item
105	F: V: T: F: V: T: 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.	Item
106	F: V: T: F: V: T:	Item
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	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]	Item
107	F: V: T: F: V: T:	
	C15. Storage Facilities The Contractor shall provide a Container for storage of materials.	Item
108	F: V: T: F: V: T:	
	C16. Removal and Making Good of Temporary Works, etc, on Completion The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item
109	F: V: T: F: V: T:	
	SUB - TOTAL: FIXED ITEMS	
	SUB - TOTAL: VALUE - RELATED ITEMS	
	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.	Item			
7	Provision of first aid boxes.	Item			
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	Item			
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	Item			
	<u>Provision for Personal Protective Equipment and Protective Clothing:</u>				
10	Reflective vests.	Item			
11	Hard hats.	Item			
12	Protective foot wear.	Item			
13	Ear Plugs.	Item			
14	Dust Masks.	Item			
	<u>Cost of Medical Certificates and Medical Surveillance:</u>				
15	Initial (baseline) medical examinations.	Item			
16	Exit Examinations.	Item			
	<u>Noise Monitoring:</u>				
17	Establishment of noise zones.	Item			
18	Audiograms.	Item			
	<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 (PROVISIONAL)

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>DEMOLITIONS (PROVISIONAL)</u> <u>BILL NO. 1</u> <u>DEMOLITIONS (PROVISIONAL)</u> <u>DEMOLITIONS</u> <u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates <u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained <u>Explosives</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated. <u>General</u> Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent. Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site. <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.				
Section No. 2 Bill No. 1 Demolitions (provisional)				
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	Unit	Quantity	Rate	Amount
<u>The following shall apply in respect of asbestos removal</u>				
The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001. Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose. Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material. Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally. The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained.				
<u>DEMOLISHING AND REMOVING</u>				
1 Demolish pit latrine structure comprising of brick/block work with asbestos roof sheeting, approximate size 6 x 3m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	2		
2 Cart away rubble from demolitions and dispose off site.	Item			
3 Provision of a certificate of safe disposal for asbestos.	Item			
<u>SUNDRIES</u>				
<u>Desludging</u>				
4 Issue of Certificate of Waste Disposal.	Item			
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BUILDING WORKS

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Earthworks				

	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	63		
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	26		
5 Hard rock.	m ³	13		
<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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Earthworks				

	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	177	
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	75	
<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	34	
<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	38	
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	Unit	Quantity	Rate	Amount
The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks. <u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>15Mpa/19mm Concrete</u>				
1	m ³	3		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>30MPa/20mm concrete:</u>				
2	m ³	14		
<u>REINFORCED CONCRETE</u> <u>30MPa/20mm concrete:</u>				
3	m ³	18		
4	m ³	15		
5	m ³	14		
6	m ³	17		
<u>TEST BLOCKS</u> <u>Test blocks:</u>				
7	No	24		
<u>FINISHING TOP SURFACE OF CONCRETE</u> <u>Finishing top surfaces of concrete smooth with a wood float:</u>				
8	m ²	286		
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		Unit	Quantity	Rate	Amount
<u>Finishing top surfaces of concrete smooth with a steel float:</u>					
9	Surface beds, suspended slabs, etc.	m²	70		
<u>Charmfers at corners</u>					
10	19 x 19mm triangular fillet at corners formed of unreinforced concrete steel trowelled.	m	71		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>					
<u>Rough Formwork to Sides:</u>					
11	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	69		
<u>Permanent Formwork:</u>					
12	Soffit of slab over pit.	m²	70		
<u>Extra on permanent formwork for boxing or blocking in or boxing out to form:</u>					
13	835mm diameter circular opening through 370mm thick slab.	No	8		
14	450mm Diameter opening through 255mm thick slab.	No	5		
15	200mm Diameter opening through 255mm thick slab.	No	8		
16	150mm Diameter opening through 255mm thick slab.	No	3		
<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	29		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>					
18	12mm Joints not exceeding 300mm high (Provisional).	m	97		
<u>Saw cut joints:</u>					
19	6 x 40mm Saw cut joints in top of concrete (Provisional).	m	145		
<u>REINFORCEMENT (PROVISIONAL)</u>					
20	High tensile steel reinforcement bars to structural concrete work.	Tonnes	4.43		
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	Unit	Quantity	Rate	Amount
<u>Fabric reinforcement:</u> 21 REF. 888 fabric reinforcement in concrete footings, walls, base slabs etc.	m ²	441		
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	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 One brick walls.	m ²	75		
2 345mm thick cavity brick walls made of two leafs of 110mm wall with 135mm concrete fill (concrete elsewhere measured).	m ²	120		
<u>BRICKWORK AND BLOCKWORK SUNDRIES</u>				
<u>Galvanized brickwork reinforcement</u>				
3 115mm Wide reinforcement built in horizontally	m	609		
4 230mm Wide reinforcement built in horizontally.	m	1 114		
5 Ditto, but in foundations (Provisional).	m	533		
<u>Cramps, ties, etc:</u>				
6 30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	94		
<u>Air bricks etc:</u>				
7 229 x 152mm terracotta clay vermin proof air brick	No	16		
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		Unit	Quantity	Rate	Amount
	<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 "Brixeal" bitumen emulsion waterproofing coating:</u>				
8	To walls (Provisional).	m ²	268		
	<u>Samples</u>				
9	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same position to be paved as per given specifications.	Item			
	<u>FACE BRICK</u>				
	<u>Rustgold FBS/Qunu Travertine clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
10	Extra over brickwork for face brickwork externally.	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		
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>				
16	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.	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		
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Masonry

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>SECTION 3</u> <u>BILL No. 4</u> <u>WATERPROOFING</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 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>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>Waterproofing</u> Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit). The product and its methodology for application must be approved by Principal Agent before it is used.				
Carried to Collection				
Section No. 3				
Bill No. 4				
Waterproofing				

R

	Unit	Quantity	Rate	Amount
It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product. Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done. Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet. <u>DAMPPROOFING OF WALLS AND FLOORS</u> <u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u>				
1 Under surface beds, bases, etc.	m ²	179		
<u>One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u>				
2 Below walls, sills, etc.	m ²	11		
<u>JOINT SEALANTS ETC</u> <u>Clear Neutral silicone sealant:</u>				
3 In joint sealing and pointing all round external window and door frames.	m	188		
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
4 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	242		
<u>WATERPROOFING TO PIT WALLS</u> <u>Waterproofing product to plastered walls, subject to approval by the Principal Agent prior to application.</u>				
5 On plastered wall surfaces including 100mm overlap at the base slab	m ²	126		
Carried to Collection				R
Section No. 3				
Bill No. 4				
Waterproofing				

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>BUILDING WORKS</u> <u>BILL NO. 5</u> <u>ROOF COVERINGS</u> <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 <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>SUPPLEMENTARY PREAMBLES</u> <u>Flashings</u> Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side <u>Quality Assurance</u> The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System				
Carried to Collection			R	
Section No. 3				
Bill No. 5				
Roof Coverings				

	Unit	Quantity	Rate	Amount
<u>Protrusion through Sheeted Surfaces</u>				
Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation				
<u>Cleaning of Roofs, etc</u>				
All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc				
<u>ROOF COVERINGS</u>				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0.58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :</u>				
1	m ²	149		
<u>0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u>				
2	m	34		
<u>ROOF AND WALL INSULATION</u>				
<u>Sisalation Grade FR430 or equal approved heavy industrial insulation</u>				
3	m ²	149		
Carried to Collection				R
Section No. 3				
Bill No. 5				
Roof Coverings				

BILL NO. 5
ROOF COVERINGS
COLLECTION

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 6</u> <u>CARPENTRY AND JOINERY</u> <u>SECTION 3</u> <u>BILL No. 6</u> <u>CARPENTRY & JOINERY</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 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>SUPPLEMENTARY PREAMBLES</u> <u>FIXING</u> All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used. <u>CARPENTRY</u> <u>Sawn softwood:</u>				
1	m	67		
2	m	269		
3	m	48		
4	m	186		
<u>Sundries:</u>				
5	No	185		
Carried to Collection				R
Section No. 3				
Bill No. 6				
Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
<u>EAVES, VERGES, ETC</u>					
<u>Everite Nutec or equal approved fibre cement</u>					
6	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	34		
7	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.	m	36		
<u>DOORS ETC</u>					
<u>SANS Approved meranti:</u>					
8	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1).	No	5		
9	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	2		
10	44mm Braced and ledged door size 862 x 1000mm (D3).	No	3		
11	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4).	No	14		
<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	70 x 108mm rebated meranti frame .	m	87		
<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	70 x 108mm rebated meranti frame .	m	16		
Carried to Collection				R	
Section No. 3					
Bill No. 6					
Carpentry And Joinery					

BILL NO. 6
CARPENTRY AND JOINERY
COLLECTION

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Section No. 3
 Bill No. 6
 Carpentry And Joinery

		Unit	Quantity	Rate	Amount
3	UNION w/c indicator bolt satin chrome - Code CZ80941SC No 17 19/11/2022 12:33:00 A0 : 3 A1 : 6 A6 : 2 AD : 6	No	7		
	<u>HANDLES</u>				
4	Dorma DPH301B or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	21		
	<u>Sundries:</u>				
5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	14		
6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	24		
	<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>				
7	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	7		
	<u>SUNDRIES</u>				
	<u>Halcast or equal approved"</u>				
8	Thiefproof toilet roll holder plugged.	No	37		
	<u>Grade 304 stainless steel ware:</u>				
9	32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.	No	2		
10	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.	No	2		
	<u>Satin Grey Plastics or equal approved</u>				
11	Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose. No 8 25/08/2022 05:34:30 A0 : 2 A1 : 2 A6 : 2 AD : 2	No	8		
Carried to Collection					R
Section No. 3					
Bill No. 7					
Ironmongery					

BILL NO. 7
IRONMONGERY
COLLECTION

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Section No. 3
 Bill No. 7
 Ironmongery

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 8</u> <u>METALWORK</u> <u>SECTION 3</u> <u>BILL No. 8</u> <u>METALWORK</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 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>SUPPLEMENTARY PREAMBLES</u> The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent <u>ALUMINIUM WINDOWS</u> All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA. All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction. All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass. <u>Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:</u>				
1	No	38		
Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01.				
Carried to Collection			R	
Section No. 3				
Bill No. 8				
Metalwork				

	Unit	Quantity	Rate	Amount
<u>HOT DIP GALVANIZED STEEL GATES</u>				
<u>Note: The contractor is to check on site measurements before placing of order.</u>				
<u>Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:</u>				
2 Security gate size 900 x 2050mm high (G1).	No	4		
3 Security double gate size 1800 x 2050mm high.	No	1		
<u>LOCKABLE MANHOLE COVERS</u>				
4 600mm diameter lockable circular type M4A product or similar approved manhole SANS 1882 medium duty Dough Moulding compound 4A hinged lid and frame cast into concrete upstand.	No	8		
Carried to Collection			R	
Section No. 3				
Bill No. 8				
Metalwork				

BILL NO. 8
METALWORK
COLLECTION

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Section No. 3
 Bill No. 8
 Metalwork

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 9</u> <u>PLASTERING</u> <u>SECTION 3</u> <u>BILL No. 9</u> <u>PLASTERING</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 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>SCREEDS</u> <u>Untinted granolithic, on concrete:</u> 1 30mm Thick on floors and landings. m ² 232 <u>Skirtings</u> 2 75mm High coved granolithic skirting. m 329 <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> 3 On walls. m ² 120				
Carried To Section Summary			R	
Section No. 3 Bill No. 9 Plastering				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 10</u> <u>PLUMBING AND DRAINAGE</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	m	34		
125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.				
2	No	8		
Extra over eaves gutter for stopped end.				
3	No	8		
Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.				
4	m	32		
100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).				
5	No	16		
Extra over rainwater downpipe for bends.				
<u>TAPS, VALVES, ETC</u> <u>Solid Cast brass taps, valves, etc:</u>				
6	No	26		
Cobra KM2-200or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.				
7	No	14		
15mm Ball-o-stop valve.				
Carried to Collection			R	
Section No. 3				
Bill No. 10				
Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
8	22mm Non Return valve.	No	16		
	<u>WASTE UNIONS ETC</u>				
	<u>Outlets, traps, etc:</u>				
9	40mm 342/50 CP bottle trap.	No	1		
10	40mm Code 316 chrome plated unslotted waste outlet.	No	13		
11	40mm Rubber "P" or "S" trap	No	13		
	<u>SANITARY FITTINGS</u>				
	<u>Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:</u>				
12	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	5		
13	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	8		
14	Bambi Longdrop VIP Pit pedestal for children complete with C/W flap. size: 282 x 360 x 300mm.	No	3		
	<u>Vaal or equal approved:</u>				
15	Lavatera White Vitreous china wall mounted bowl urinal with top inlet [code: 704001] 610x385mm, supplied with 38mm chromium plated domical grating [code: 8787], chromium plated spreader [code: 8543], and two hanger brackets [code: 8127]	No	1		
16	Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification.	No	13		
	<u>Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:</u>				
17	SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet.	No	2		
	Carried to Collection				
	Section No. 3				
	Bill No. 10				
	Plumbing And Drainage				

R

		Unit	Quantity	Rate	Amount
<u>SANITARY PLUMBING</u>					
<u>PVC waste or vent pipes and fittings:</u>					
18	50mm Waste pipe.	m	125		
19	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	45		
20	110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres.	m	72		
<u>uPVC gulleys</u>					
21	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gully (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar.	No	4		
<u>Extra for:</u>					
22	50mm Bend.	No	37		
23	50mm Access bend.	No	16		
24	Envirosan or equal approved fly screens to top of 110 diameter vent pipe.	No	18		
<u>WATER SUPPLIES</u>					
<u>Polycop pipes:</u>					
Pipes shall be class 10.					
<u>Fixing of pipes</u>					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level					
<u>Polycop pipes chased in walls:</u>					
Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.					
Carried to Collection					R
Section No. 3					
Bill No. 10					
Plumbing And Drainage					

		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					

BILL NO. 10
PLUMBING AND DRAINAGE
COLLECTION

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Section No. 3
 Bill No. 10
 Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 11</u> <u>PAINTWORK</u> <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 <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>SUPPLEMENTARY PREAMBLES</u> <u>Trade Names</u> Where trade names are specified it will read "or equal approved" <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.				
Section No. 3 Bill No. 11 Paintwork	Carried to Collection		R	

		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	On doors	m ²	76		
2	On door frames	m ²	24		
<u>Prepare and apply two coats carbolenium on:</u>					
3	On exposed timbers.	m ²	26		
<u>ON FIBRE-CEMENT</u>					
<u>Prepare and apply two coats pure acrylic roof paint on:</u>					
4	On fascias and barge boards.	m ²	18		
<u>ON PVC VENT PIPE</u>					
<u>Prepare and apply two coats black PVA paint:</u>					
5	Vent Pipes	m ²	68		
Carried to Collection				R	
Section No. 3 Bill No. 11 Paintwork					

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PAINTWORK
COLLECTION

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 Bill No. 11
 Paintwork

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BUILDING WORKS			
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8	METALWORK	59	
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SECTION NO. 4
EXTENAL WORKS (PROVISIONAL)

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>EXTENAL WORKS (PROVISIONAL)</u>				
<u>BILL NO. 1</u>				
<u>EXTERNAL WORKS</u>				
<u>SECTION No. 4</u>				
<u>BILL No. 1</u>				
<u>EXTERNAL WORKS (PROVISIONAL)</u>				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
<u>THE FOLLOWING IN PLATFORMS, ETC.</u>				
<u>Site Clearance, ETC</u>				
1				
Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.				
	m ²	527		
2				
Stripping average 200mm thick layer of topsoil and stockpiling on site.				
	m ²	527		
<u>Open face excavation not exceeding 2m deep:</u>				
3				
Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.				
	m ³	86		
<u>Extra over all excavations for carting away:</u>				
4				
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.				
	m ³	56		
<u>Earth filling from excavated material</u>				
5				
Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.				
	m ³	30		
Carried to Collection			R	
Section No. 4				
Bill No. 1				
External Works				

	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	527		
<u>Prescribed density tests on filling:</u>				
7 Modified AASHTO Density test.	No	18		
<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	54		
<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	54		
<u>Filling supplied by the contractor under walkways</u>				
10 G7 Base course material compacted to 98% Mod AASHTO density	m ³	18		
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	36		
<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
12 Under floors,etc.	m ²	120		
<u>Prescribed density tests on filling:</u>				
13 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>				
14 Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m ²	120		
Carried to Collection				R
Section No. 4				
Bill No. 1				
External Works				

		Unit	Quantity	Rate	Amount
<u>Concrete Paving Blocks</u>					
<u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u>					
15	Paving to walkway areas, etc laid to falls.	m ²	120		
16	Extra over ordinary paving for 200mm wide block-on-flat header course edging on 100mm thick mortar bed including unreinforced concrete haunching along outside edge.	m	160		
17	Ditto but circular on plan.	m	16		
<u>Kerbing</u>					
<u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.</u>					
18	Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	160		
19	Ditto but circular on plan.	m	16		
20	Fig. 12 kerb size 75 x 150mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	26		
21	Ditto but circular on plan.	m	3		
<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
22	Trenches.	m ³	5		
<u>Extra over all excavations for carting away:</u>					
23	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m ³	3		
<u>Risk of collapse of excavations:</u>					
24	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	21		
Carried to Collection				R	
Section No. 4					
Bill No. 1					
External Works					

		Unit	Quantity	Rate	Amount
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
25	Backfilling to trenches, holes, etc.	m³	2		
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
26	Under footings.	m³	2		
	<u>Compaction of surfaces</u>				
27	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m²	11		
	<u>25 Mpa/19mm Concrete</u>				
28	Strip footings.	m³	2		
	<u>Test blocks:</u>				
29	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>Reinforcement (Provisional)</u>				
30	High tensile steel reinforcement bars to structural concrete work.	Tonnes	0.22		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
31	One brick walls.	m²	9		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
32	One brick walls.	m²	11		
	<u>Brickwork reinforcement:</u>				
33	230mm Wide reinforcement built in horizontally.	m	126		
34	Ditto but in foundations.	m	105		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works				

		Unit	Quantity	Rate	Amount
	<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>				
35	One brickwall faced on both sides.	m ²	26		
	<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>				
36	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	21		
	<u>THE FOLLOWING IN DISABLED ACCESS</u>				
	<u>SCREEN WALL</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
37	Trenches.	m ³	2		
	<u>Extra over all excavations for carting away:</u>				
38	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m ³	1		
	<u>Risk of collapse of excavations:</u>				
39	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	6		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
40	Backfilling to trenches, holes, etc.	m ³	1		
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
41	Under footings.	m ³	1		
	<u>Compaction of surfaces</u>				
42	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	2		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works				

		Unit	Quantity	Rate	Amount
	<u>25 Mpa/19mm Concrete</u>				
43	Strip footings.	m³	1		
	<u>Test blocks:</u>				
44	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1		
	<u>Reinforcement (Provisional)</u>				
45	High tensile steel reinforcement bars to structural concrete work.	Tonnes	0.10		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
46	One brick walls.	m²	2		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
47	One brick walls.	m²	8		
	<u>Brickwork reinforcement:</u>				
48	230mm Wide reinforcement built in horizontally.	m	28		
49	Ditto but in foundations.	m	16		
	<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>				
50	One brickwall faced on both sides.	m²	16		
	<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>				
51	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	4		
Carried to Collection				R	
Section No. 4					
Bill No. 1					
External Works					

		Unit	Quantity	Rate	Amount
	<u>ACCESS RAMPS</u>				
	<u>Excavation not exceeding 2m deep</u>				
52	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	1		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
53	Off site to a dumping site to be found by the Contractor.	m ³	1		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
54	G7 Base course material compacted to 98% Mod AASHTO density	m ³	1		
55	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>Coarse river sand filling supplied by the contractor:</u>				
56	Under floors etc.	m ³	1		
	<u>Compaction of surfaces:</u>				
57	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	4		
	<u>Prescribed density tests on filling:</u>				
58	In-situ dry density test.	No	2		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
59	Ramps, Landings, etc.	m ³	1		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
60	Surface beds, slabs, etc to falls and currents.	m ²	4		
	<u>Test blocks:</u>				
61	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
62	12mm Joints not exceeding 300mm high.	m	3		
	Carried to Collection			R	
	Section No. 4 Bill No. 1 External Works				

		Unit	Quantity	Rate	Amount
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
63	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	3		
	<u>Fabric reinforcement:</u>				
64	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	4		
	<u>Waterproofing under Surface beds</u>				
65	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m ²	4		
	<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>				
	<u>Excavation not exceeding 2m deep</u>				
66	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	60		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
67	Off site to a dumping site to be found by the Contractor.	m ³	30		
	<u>Filling supplied by the contractor under driveways</u>				
68	G7 Base course material compacted to 98% Mod AASHTO density	m ³	30		
69	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	30		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
70	Under floors,etc.	m ²	200		
	<u>Prescribed density tests on filling:</u>				
71	In-situ dry density test.	No	8		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
72	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m ²	200		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works				

		Unit	Quantity	Rate	Amount
	<u>150-175mm diameter bollards</u>				
73	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	12		
	<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
	<u>STORMWATER APRONS</u>				
	<u>Excavation not exceeding 2m deep</u>				
74	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	25		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
75	Off site to a dumping site to be found by the Contractor.	m ³	25		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
76	G7 Base course material compacted to 98% Mod AASHTO density	m ³	4		
77	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	4		
	<u>Coarse river sand filling supplied by the contractor:</u>				
78	Under floors etc.	m ³	1		
	<u>Compaction of surfaces:</u>				
79	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	82		
	<u>Prescribed density tests on filling:</u>				
80	In-situ dry density test.	No	8		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
81	Surface beds cast in panels on waterproofing.	m ³	11		
82	Edge thickening	m ³	4		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
83	Surface beds, slabs, etc to falls and currents.	m ²	82		
	Carried to Collection			R	
	Section No. 4 Bill No. 1 External Works				

		Unit	Quantity	Rate	Amount
	<u>Test blocks:</u>				
84	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
85	12mm Joints not exceeding 300mm high.	m	24		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
86	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	24		
	<u>Fabric reinforcement:</u>				
87	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	82		
	<u>Waterproofing under Surface beds</u>				
88	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m ²	82		
	<u>STORMWATER CHANNELS</u>				
89	Excavation not exceeding 2m deep	m ³	31		
90	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	16		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
91	Off site to a dumping site to be found by the Contractor.	m ³	31		
	<u>Filling supplied by the contractor under channels</u>				
92	G7 Base course material compacted to 98% Mod AASHTO density	m ³	16		
93	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	16		
Carried to Collection					
Section No. 4					
Bill No. 1					
External Works					
80					

		Unit	Quantity	Rate	Amount
	<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>				
94	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	149		
95	Extra for 700mm angle	No	22		
96	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	8		
	<u>Sundries:</u>				
97	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	55		
98	Construct shaped earth V-drain 2m wide with grass runners	m	35		
	<u>THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.</u>				
	<u>Excavation not exceeding 2m deep</u>				
99	Reducing levels and depositing excavated material in prescribed stock piles on site.	m ³	12		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
100	Off site to a dumping site to be found by the Contractor.	m ³	6		
	<u>Filling supplied by the contractor under floors, aprons, channels etc</u>				
101	G7 Base course material compacted to 98% Mod AASHTO density	m ³	3		
Carried to Collection				R	
Section No. 4					
Bill No. 1					
External Works					

		Unit	Quantity	Rate	Amount
102	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m³	3		
	<u>Coarse river sand filling supplied by the contractor:</u>				
103	Under floors etc.	m³	1		
	<u>Compaction of surfaces:</u>				
104	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m²	19		
	<u>Prescribed density tests on filling:</u>				
105	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
106	Surface beds cast in panels on waterproofing.	m³	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
107	Surface beds, slabs, etc to falls and currents.	m²	19		
	<u>Test blocks:</u>				
108	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
109	12mm Joints not exceeding 300mm high.	m	10		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
110	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	10		
	<u>Fabric reinforcement:</u>				
111	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m²	19		
	<u>THE FOLLOWING IN SOAKAWAY</u>				
	<u>Site Clearance, Etc</u>				
112	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m²	32		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works				

		Unit	Quantity	Rate	Amount
	<u>Excavation in earth not exceeding 2m deep:</u>				
113	Holes	m ³	16		
	<u>Extra over all excavations for carting away</u>				
114	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m ³	6		
	<u>Risk of collapse of excavations</u>				
115	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m ²	42		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
116	Backfilling to holes	m ³	10		
	<u>Earth filling with stone material supplied by the contractor:</u>				
117	Stone (>53mm).	m ³	6		
	<u>Membranes</u>				
118	Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0 02/11/2022 05:24:27	m ²	40		
	<u>Keeping excavations free of water</u>				
119	Keeping excavations free of all water other than subterranean water	Item			
	<u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
120	Trenches.	m ³	10		
	<u>Extra over all excavations for carting away:</u>				
121	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m ³	7		
	<u>Risk of collapse of excavations:</u>				
122	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	40		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
123	Backfilling to trenches, holes, etc.	m ³	4		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works				

		Unit	Quantity	Rate	Amount
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
124	Under footings.	m ³	9		
	<u>Compaction of surfaces</u>				
125	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m ²	20		
	<u>25 Mpa/19mm Concrete</u>				
126	Strip footings.	m ³	4		
	<u>25 MPa/19mm Concrete:</u>				
127	Tank concrete slab.	m ³	3		
	<u>Test blocks:</u>				
128	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	<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>				
129	Surface beds, slabs, etc.	m ²	20		
	<u>Rough Formwork to Sides:</u>				
130	Edges, risers, ends and reveals not exceeding 300mm high.	m	40		
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
131	Type 617 fabric reinforcement in concrete slabs.	m ²	20		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
132	One brick walls.	m ²	18		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
133	One brick walls.	m ²	20		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works				

84

		Unit	Quantity	Rate	Amount
	<u>Brickwork reinforcement:</u>				
134	230mm Wide reinforcement built in horizontally.	m	160		
135	Ditto but in foundations.	m	160		
	<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>				
136	Extra over brickwork for face brickwork externally.	m ²	20		
	<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>				
137	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>				
138	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		
139	Hole top of tank for 100mm pipe.	No	5		
	<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>				
	<u>Site clearance</u>				
140	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	92		
	<u>Straining wires, fencing and razor wire:</u>				
141	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	92		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	External Works				

		Unit	Quantity	Rate	Amount
142	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	92		
143	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including Y12 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	92		
	<u>Posts for 1 800mm high security fence:</u>				
144	60mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	28		
145	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	4		
146	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	6		
147	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	36		
148	Form 12mm diameter hole through fence post.	No	216		
Carried to Collection					
Section No. 4					
Bill No. 1					
External Works					
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		Unit	Quantity	Rate	Amount
	<u>Gates:</u>				
149	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
150	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	3		
	<u>PADLOCKS</u>				
151	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	4		
Carried to Collection				R	
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External Works					

BILL NO. 1
EXTERNAL WORKS
COLLECTION

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SECTION NO. 4
EXTENAL WORKS (PROVISIONAL)
SECTION SUMMARY

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EXTERNAL WORKS

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Section No. 4
SECTION SUMMARY

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SECTION NO. 5
PROVISIONAL SUMS

SECTION NO. 5
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.

TEMPORARY ABLUTIONS

- 1 Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand Rand) for the Supply, Servicing and maintenance of temporary ablutions for the duration of the project and Removal thereof on completion.

Item 250 000 00

- 2 Add: Profit on above

Item

- 3 Add: Attendance on above

Item

COMMUNITY LIAISON OFFICER

- 4 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

- 5 Add: Profit on above

Item

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Section No. 5
Bill No. 1
Provisional Sums

Section No. **FINAL SUMMARY**

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- 1 PRELIMINARIES
- 2 DEMOLITIONS (PROVISIONAL)
- 3 BUILDING WORKS
- 4 EXTENAL WORKS (PROVISIONAL)
- 5 PROVISIONAL SUMS

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ADD: CONTINGENCIES

Allow the Amount of R190 000.00 (One Hundred and Ninety Thousand Rands) for contingencies to be used by the Architect.

190 000 00

SubTotal excluding Value Added Tax

ADD VAT @ 15%:

Carried to Tender

R

FINAL SUMMARY