

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.

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SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'

Clause 3.3 is deleted and substituted with:

The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

Item

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	Works risk (Clause 8)			
8	F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item		
9	F: V: T: Works insurances (Clause 10).	Item		
10	F: V: T: Liability insurances (Clause 11).	Item		
11	F: V: T: Effecting insurances (Clause 12).	Item		
12	F: V: T: State Provisions (Clause 13).	Item		
13	F: V: T: Security (Clause 14).	Item		
14	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
15	F: V: T: Access to the works (Clause 16).	Item		
16	F: V: T:	Item		
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	Contract instructions (Clause 17).			
17	F: V: T: Setting out of the works (Clause 18.3). The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: V: T: Assignment (Clause 19).	Item		
19	F: V: T: Nominated subcontractors (Clause 20).	Item		
20	F: V: T: Selected subcontractors (Clause 21).	Item		
21	F: V: T: Employer's Direct contractors (Clause 22).	Item		
22	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).	Item		
24	F: V: T: Works completion (Clause 25).	Item		
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25	F: V: T: Final completion (Clause 26). Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"	Item		
26	F: V: T: Sectional completion (Clause 28).	Item		
27	F: V: T: Revision of date for practical completion (Clause 29).	Item		
28	F: V: T: Penalty for non-completion (Clause 30).	Item		
29	F: V: T: <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.	Item		
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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T:

Item

Recovery of expense and loss (Clause 33).

31 F: V: T:

Item

Final account and final payment (Clause 34).

32 F: V: T:

Item

Payment to other parties (Clause 35).

33 F: V: T:

Item

CANCELLATION

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

34 F: V: T:

Item

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

35 F: V: T:

Item

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

36 F: V: T:

Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T:

Item

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

The Schedule: Pre-Tender information (Clause 42).

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

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DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

Number of construction document copies to be supplied to the Contractor free of charge :- 1

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

Standard System of Measuring Building Work - Seventh Edition including all amendments

Clause 42.4.4

Number of days for submission of priced documents : 5 working days from the Letter of Appointment.

Clause 42.4.5

JBCC Engineering General Conditions are to be included in the documents :- No

Clause 42.4.6

The contract value is to be adjusted using CPAP:- NO

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

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	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: 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.	Item		
43	F: V: T: Availability of construction documentation (B2.3)	Item		
44	F: V: T: Interests of Agents (B2.4)	Item		
45	F: V: T: Priced documents (B2.5)	Item		
46	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: <u>THE SITE (B3)</u> Defined works area (B3.1)	Item		
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	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
48	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item		
49	F: V: T: Inspection of the Site (B3.3)	Item		
50	F: V: T: Existing premises occupied (B3.4)	Item		
51	F: V: T: Previous work - dimensional accuracy (B3.5)	Item		
52	F: V: T: Previous work - defects (B3.6)	Item		
53	F: V: T: Services - known (B3.7)	Item		
54	F: V: T: Services - unknown (B3.8)	Item		
55	F: V: T: Protection of trees (B3.9)	Item		
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56 F: V: T:

Articles of value (B3.10)

57 F: V: T:

Inspection of adjoining properties (B3.11)

58 F: V: T:

MANAGEMENT OF CONTRACT (B4)

Management of the Works (B4.1)

59 F: V: T:

Programme for the Works (B4.2)

60 F: V: T:

Progress meetings (B4.3)

61 F: V: T:

Technical meetings (B4.4)

62 F: V: T:

SAMPLES AND SHOP DRAWINGS (B5)

Samples of materials (B5.1)

63 F: V: T:

Workmanship samples (B5.2)

64 F: V: T:

Shop drawings (B5.3)

65 F: V: T:

TEMPORARY WORKS AND PLANT (B6)

Deposits and fees (B6.1)

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Item

Item

Item

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66 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.

67 F: V: T:

Advertising (B6.3)

68 F: V: T:

Item

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69	Plant and equipment (B6.4) F: V: T:	Item		
70	Main notice board (B6.5) One notice board shall be provided by the Contractor F: V: T:	Item		
71	Subcontractors notice board (B6.6) (N/A) F: V: T:	Item		
	<u>TEMPORARY SERVICES (B7)</u>			
72	Location (B7.1) F: V: T:	Item		
73	Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). F: V: T:	Item		
74	Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). F: V: T:	Item		
75	Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). F: V: T:	Item		
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	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: V: T:	Item		
	<u>PRIME COST AMOUNTS (B8)</u>			
	Responsibility for prime cost amounts (B8.1)			
77	F: V: T:	Item		
	<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>			
	General Attendance (B9.1)			
78	F: V: T:	Item		
	Special Attendance (B9.2)			
79	F: V: T:	Item		
	Commissioning - fuel, water and power (B9.3)			
80	F: V: T:	Item		
	<u>FINANCIAL ASPECTS (B10)</u>			
	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).			
81	F: V: T:	Item		
	Payment of Preliminaries (B10.2)			
82	F: V: T:	Item		
	Adjustment of Preliminaries (B10.3)			
83	F: V: T:	Item		
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	Payment certificate cash flow (B10.4)			
84	F: V: T:	Item		
	Contractor information supply (B10.5)			
85	F: V: T:	Item		
	<u>GENERAL (B11)</u>			
	Protection of the Works (B11.1)			
86	F: V: T:	Item		
	Protection/isolation of existing/sectionally occupied works (B11.2)			
87	F: V: T:	Item		
	Site security (B11.3)			
88	F: V: T:	Item		
	Notice before covering work (B11.4)			
89	F: V: T:	Item		
	Disturbance (B11.5)			
90	F: V: T:	Item		
	Works cleaning and clearing (B11.6)			
91	F: V: T:	Item		
	Vermin (B11.7)			
92	F: V: T:	Item		
	Overhand work (B11.8)			
93	F: V: T:	Item		
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	Section 1 Bill No. 1 Preliminaries			

SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

94 F: V: T:

Item

C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

95 F: V: T:

Item

C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

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Section 1
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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.			
97 F: V: T:	Item		
C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.			
98 F: V: T:	Item		
C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book:			
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	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
99	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
100	F: V: T: C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.	Item		
101	F: V: T: C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item		
102	F: V: T: C10. Method Statement	Item		
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Section 1 Bill No. 1 Preliminaries				

	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.			
103	F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item		
104	F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.	Item		
105	F: V: T:	Item		
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Section 1 Bill No. 1 Preliminaries				

	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.			
106	F: V: T: <u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T: C16. Removal and Making Good of Temporary Works, etc, on Completion The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item		
110	F: V: T:	Item		
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Section 1 Bill No. 1 Preliminaries				

111 SUB - TOTAL: FIXED ITEMS

Item

112 SUB - TOTAL: VALUE - RELATED ITEMS

Item

113 SUB - TOTAL: TIME - RELATED ITEMS

Item

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Section 1
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CLUSTER 120
NTLOKO PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME

Section 1

Bill No. 1

Preliminaries

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Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL No. 2</u>			
<u>HEALTH AND SAFETY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "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>			
Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.			
The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.			
Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.			
The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.			
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Section 1 Bill No. 2 Health and Safety			

The costs included herein must incorporate Community Liaison Officer (CLO).

OCCUPATIONAL HEALTH AND SAFETY

General:

1	Preparation of Contractor's site specific Health and Safety Plan.		Item
2	Submission of the Health and Safety File.		Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item
5	Provision of full time Health and Safety Officer for the entire construction period.		Item
6	Induction training of personnel.	No	20
7	Provision of first aid boxes.	No	1
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	50
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1
<u>Provision for Personal Protective Equipment and Protective Clothing:</u>			
10	Reflective vests.	No	20
11	Hard hats.	No	20
12	Protective foot wear.	No	20
13	Ear Plugs.	No	900

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Section 1
Bill No. 2
Health and Safety

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Section 1

Bill No. 2

Health and Safety

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Section 1

Bill No. 2

Health and Safety

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Item No	Quantity	Rate	Amount
<u>SECTION 2</u> <u>BILL No. 1</u> <u>ALTERATIONS (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: A1 - DWG 02 - Grade R Ablution <u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. <u>SUPPLEMENTARY PREAMBLES</u> <u>Existing Furniture, Equipment, etc</u> The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done			
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Section 2 Bill No. 1 Alterations (Provisional)			

Damage to existing finishes

The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account

Responsibility for site

The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above

Explosives

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

Carried to Collection

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Section 2
Bill No. 1
Alterations (Provisional)

General

The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

"Taking out and removing doors, windows, etc"

implies that the door, etc is to be carefully taken down together with the frame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing

Carried to Collection

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Section 2
Bill No. 1
Alterations (Provisional)

"Forming openings" for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing

"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing

"Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for plaster or other finishings as described

Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained

Carried to Collection

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Section 2
Bill No. 1
Alterations (Provisional)

"Building up openings" implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the tickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described.

Removal of asbestos material

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

The following shall apply in respect of asbestos removal

The removal of asbestos shall be carries out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Carried to Collection

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Alterations (Provisional)

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

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Section 2
Bill No. 1
Alterations (Provisional)

R

<u>DE-SLUDGING EXISTING TOILETS</u>		
1	Clean out pit latrine by desludging including removal of all debris and waste including solid waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat	No 13
2	Issue of Certificate of Waste Disposal.	Item
<u>REMOVAL OF EXISTING WORK</u>		
<u>Take out and remove doors, windows, etc from brickwork to remain</u>		
3	Steel single door 813 x 2032mm high including frame.	No 13
<u>Breaking down and removing brickwork etc</u>		
4	One brick walls.	m2 15
<u>Taking out and removing sanitary fittings.</u>		
5	Remove WC pan seat.	No 13
<u>Taking out and removing sundry joinery work, fittings, etc.</u>		
6	Hat and coat hook from wall.	No 1
<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>		
7	Average 30mm Screed from floors.	m2 15
<u>BUILDING UP OPENINGS</u>		
<u>Brickwork in NFP bricks in class II mortar in building up opening</u>		
8	One brick walls.	m2 8
<u>MAKING GOOD OF FINISHES ETC</u>		
Carried to Collection		
Section 2 Bill No. 1 Alterations (Provisional)		

<u>Making good concrete floors</u>					
9	Concrete in patches.	m2	38		
<u>Repairs to structural cracks, etc</u>					
10	Rake out existing minor structural crack in brickwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere).	m	12		
<u>Breaking down and removing brickwork etc. and making good of surfaces where removed.</u>					
11	Half brick wall	m2	2		
12	One brick wall	m2	7		
<u>CLEAN EXISTING WORK</u>					
<u>Clean and wash wall, floors etc</u>					
13	Concrete floors	m2	57		
14	Facebrick wall	m2	375		
15	Roof	m2	82		
16	Window sill	m2	15		
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Section 2

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Section 2

Bill No. 1

Alterations (Provisional)

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 1 ALL TRADES BILL</u>			
<u>CARPENTRY & JOINERY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>FIXING</u>			
All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.			
Carried to Collection		R	
Section 2			
Bill No. 2			
Renovations			

DOORS ETC

SANS Approved meranti:

1	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	12	
---	--	----	----	--

FRAMED FRAMES, ETC

Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:

2	70 x 108mm rebated meranti frame .	m	79	
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IRONMONGERY

MODEL PREAMBLES

The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.

SUPPLEMENTARY PREAMBLES

Keys/Locks

Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys

Trade Names

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

Fixing

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

Carried to Collection

R

Section 2
Bill No. 2
Renovations

SIGN PLATES:

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

- | | | | |
|---|--|----|----|
| 3 | Sign plate plugged and screwed to walls with chromium plated dome headed screws. | No | 13 |
|---|--|----|----|

SUNDRIES

- | | | | |
|---|---|----|----|
| 4 | Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved. | No | 13 |
| 5 | 38mm Diameter black rubber door stop plugged and screwed to wall. | No | 13 |

Halcast or equal approved"

- | | | | |
|---|--|----|----|
| 6 | Thiefproof toilet roll holder plugged. | No | 13 |
|---|--|----|----|

Grade 304 stainless steel ware:

- | | | | |
|---|--|----|---|
| 7 | 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 | 1 |
| 8 | 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 | 1 |

Satin Grey Plastics or equal approved

- | | | | |
|---|---|----|----|
| 9 | "Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose. | No | 13 |
|---|---|----|----|

**PLUMBING AND DRAINAGE
(PROVISIONAL)**

SANITARY FITTINGS

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Section 2
Bill No. 2
Renovations

	<u>Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:</u>				
10	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3		
11	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	10		
	<u>"Vaal" or equal approved</u>				
12	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	2		
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Section 2 Bill No. 2 Renovations					

Section 2

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Renovations

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Bill No. 2

Renovations

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 3</u>			
<u>EARTHWORKS (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:			
A1 - DWG 02 - Grade R Ablution			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>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>Nature of material to be excavated:</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".			
<u>Carting away of excavated material:</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.			
Carried to Collection		R	
Section 2			
Bill No. 3			
Earthworks (Provisional)			

Dewatering of excavations:

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

Density testing on filling:

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

Imported fill:

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

Classification of excavated material

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

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

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

Carried to Collection

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Section 2
Bill No. 3
Earthworks (Provisional)

<u>EXCAVATION OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches.	m3	15
2	Holes.	m3	39
3	Reduced levels under floors.	m3	5
<u>Extra over trench and hole excavations in earth for excavation in:</u>			
4	Soft rock.	m3	
5	Hard rock.	m3	
<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.	m3	56
<u>Risk of collapse of excavations:</u>			
7	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	42
8	Ditto, but from ground level to exceeding 1,5m.	m2	39
<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.	m3	1
11	Under floors, steps, pavings, trenches, etc.	m3	3
Carried to Collection			R
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Bill No. 3			
Earthworks (Provisional)			

	<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.	m3	16		
	<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.	m3	8		
14	Backfilling to holes, trenches, etc.	m3	8		
	<u>Coarse river sand filling supplied by the contractor:</u>				
15	Under floors etc.	m3	2		
	<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.	m2	38		
	<u>Prescribed density tests on filling:</u>				
17	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	6		
Carried to Collection				R	
Section 2					
Bill No. 3					
Earthworks (Provisional)					

SOIL POISONING

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

18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	21
19	To bottoms and sides of trenches, holes, etc.	m2	113

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Section 2
Bill No. 3
Earthworks (Provisional)

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Earthworks (Provisional)

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Section 2

Bill No. 3

Earthworks (Provisional)

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 4</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</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:			
A1 - DWG 02 - Grade R Ablution			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>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>Cost of tests:</u>			
The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).			
Carried to Collection			R
Section 2			
Bill No. 4			
Concrete, Formwork and Reinforcement			

Formwork:

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

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

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

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

Carried to Collection

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Section 2
Bill No. 4
Concrete, Formwork and Reinforcement

**UNREINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

15Mpa/19mm Concrete

1	Surface blinding under footings and bases.	m3	1	
---	--	----	---	--

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/20mm concrete:

2	Strip footings to walls.	m3	3	
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REINFORCED CONCRETE

30MPa/20mm concrete:

3	Surface beds on waterproofing.	m3	4	
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4	Suspended Slabs.	m3	3	
---	------------------	----	---	--

5	Ground base slabs.	m3	3	
---	--------------------	----	---	--

6	Cavity walls.	m3	4	
---	---------------	----	---	--

TEST BLOCKS

Test blocks:

7	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6	
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Carried to Collection

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Section 2
Bill No. 4
Concrete, Formwork and Reinforcement

<u>FINISHING TOP SURFACE OF CONCRETE</u>					
<u>Finishing top surfaces of concrete smooth with a wood float:</u>					
8	Surface beds, suspended slabs, ground slabs, etc.	m2	58		
<u>Finishing top surfaces of concrete smooth with a steel float:</u>					
9	Surface beds, suspended slabs, etc.	m2	13		
<u>Charmfers at corners</u>					
10	19 x 19mm triangular fillet at corners formed of unreinforced concrete steel trowelled.	m	15		
<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	17		
<u>Permanent Formwork:</u>					
12	Soffit of slab over pit.	m2	13		
<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	2		
14	450mm Diameter opening through 255mm thick slab.	No	1		
15	200mm Diameter opening through 255mm thick slab.	No			
16	150mm Diameter opening through 255mm thick slab.	No	2		
17	110mm Diameter opening through 255mm thick slab.	No	4		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>					
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Concrete, Formwork and Reinforcement					

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Concrete, Formwork and Reinforcement

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Section 2

Bill No. 4

Concrete, Formwork and Reinforcement

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL No. 5</u>			
<u>MASONRY</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:			
A1 - DWG 02 - Grade R Ablution			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
All references to SABS shall be deemed to be the relevant SANS specification			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Hollow walls etc</u>			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
Carried to Collection		R	
Section 2 Bill No. 5 Masonry			

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

Face bricks

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

Pointing

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

Samples

Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site

Trade names

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

Carried to Collection

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Section 2
Bill No. 5
Masonry

**BRICKWORK IN FOUNDATIONS
(PROVISIONAL)**

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

1	One brick walls.	m2	18
2	345mm thick cavity brick walls made of two leafs of 110mm wall with 135mm concrete fill (concrete elsewhere measured).	m2	31

BRICKWORK AND BLOCKWORK SUNDRIES

Galvanized brickwork reinforcement

3	115mm Wide reinforcement built in horizontally	m	141
4	230mm Wide reinforcement built in horizontally.	m	241
5	Ditto, but in foundations (Provisional).	m	126

Cramps, ties, etc:

6	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	23
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Air bricks etc:

7	229 x 152mm terracotta clay vermin proof air brick	No	4
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Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixal" bitumen emulsion waterproofing coating:

8	To walls (Provisional).	m2	61
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Carried to Collection

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Section 2
Bill No. 5
Masonry

<u>Samples</u>				Item			
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.						
<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.	m2	4				
11	Extra over for face brick in foundations (Provisional).	m2	18				
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.	m2	5				
13	One brickwall pointed on both sides.	m2	74				
14	Half brickwall pointed on both sides.	m2	11				
15	Fair raking cutting.	m	9				
<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	4				
17	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	5				
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Section 2							
Bill No. 5							
Masonry							

Section 2

Bill No. 5

Masonry

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Section 2

Bill No. 5

Masonry

Item No	Quantity	Rate	Amount
<u>SECTION 2</u> <u>BILL No. 6</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: A1 - DWG 02 - Grade R Ablution <u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. <u>SUPPLEMENTARY PREAMBLES</u> <u>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			
Carried to Collection			R
Section 2 Bill No. 6 Waterproofing			

Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).

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

It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.

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

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

Carried to Collection

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Section 2
Bill No. 6
Waterproofing

DAMPPROOFING OF WALLS AND FLOORS

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

1	Under surface beds, bases, etc.	m2	38	
---	---------------------------------	----	----	--

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

2	Below walls, sills, etc.	m2	2	
---	--------------------------	----	---	--

JOINT SEALANTS ETC

Clear Neutral silicone sealant:

3	In joint sealing and pointing all round external window and door frames.	m	27	
---	--	---	----	--

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

4	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	57	
---	---	---	----	--

WATERPROOFING TO PIT WALLS

Waterproofing product to plastered walls, subject to approval by the Principal Agent prior to application.

5	On plastered wall surfaces including 100mm overlap at the base slab	m2	32	
---	---	----	----	--

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Section 2
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Waterproofing

Section 2

Bill No. 6

Waterproofing

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Section 2

Bill No. 6

Waterproofing

Section 2
Bill No. 7
Roof Coverings Etc.

Amount

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Quality Assurance

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

Guarantee

Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.

Safety

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity

Handling and Storage

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction

Carried to Collection

Section 2
Bill No. 7
Roof Coverings Etc.

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Inspection Prior to Installation or Erection

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding

Protrusion through Sheeted Surfaces

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation

Carried to Collection

Section 2
Bill No. 7
Roof Coverings Etc.

R

Cleaning of Roofs, etc

All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc

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Section 2
Bill No. 7
Roof Coverings Etc.

ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

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 :

- | | | | | |
|--|--|----|----|--|
| 1 | Roof sheeting laid to a mono-pitch. | m2 | 30 | |
|
 | | | | |
| <u>0,58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u> | | | | |
| 2 | Mono pitched ridge capping with 225mm lapping secured onto the roof. | m | 8 | |

ROOF AND WALL INSULATION

"Sisalation Grade FR430" or equal approved heavy industrial insulation

- | | | | | |
|---|--|----|----|--|
| 3 | Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires | m2 | 30 | |
|---|--|----|----|--|

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Roof Coverings Etc.

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Roof Coverings Etc.

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Section 2

Bill No. 7

Roof Coverings Etc.

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.

Section 2
Bill No. 8
Carpentry and Joinery

Amount

R

CARPENTRY

Sawn softwood:

1	38 x 152mm Wall plate.	m	15
2	50 x 76mm Purlins.	m	62
3	50 x 76mm Bracing.	m	12
4	38 x 152mm Rafters.	m	44

Sundries:

5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	45
---	--	----	----

EAVES, VERGES, ETC

"Everite Nutec" or equal approved fibre cement

6	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	8
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	9

DOORS ETC

SANS Approved meranti:

8	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1).	No	1
9	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	1
10	44mm Braced and ledged door size 862 x 1000mm (D3).	No	2

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Section 2
Bill No. 8
Carpentry and Joinery

FRAMED FRAMES, ETC

Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:

11	70 x 108mm rebated meranti frame .	m	5	
----	------------------------------------	---	---	--

Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:

12	70 x 108mm rebated meranti frame .	m	9	
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Carpentry and Joinery

Section 2

Bill No. 8

Carpentry and Joinery

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Section 2

Bill No. 8

Carpentry and Joinery

HINGES:

- | | | | |
|---|--|-------|-----|
| 1 | 75 x 100mm Brass Medium duty ball bearing HMP butt hinges. | Pairs | 4.0 |
|---|--|-------|-----|

LOCKS

- | | | | |
|---|---|----|---|
| 2 | "UNION 2277-78SS" or equal approved three lever sash mortice lockset. | No | 2 |
| 3 | "UNION w/c indicator bolt satin chrome - Code CZ80941SC | No | 2 |

HANDLES

- | | | | |
|---|---|----|---|
| 4 | "Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing. | No | 2 |
|---|---|----|---|

Sundries:

- | | | | |
|---|---|----|---|
| 5 | 38mm Diameter black rubber door stop plugged and screwed to wall. | No | 4 |
|---|---|----|---|

SIGN PLATES:

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

- | | | | |
|---|--|----|---|
| 6 | Sign plate plugged and screwed to walls with chromium plated dome headed screws. | No | 2 |
|---|--|----|---|

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Section 2
Bill No. 9
Ironmongery

SUNDRIES

Halcast or equal approved"

7	Thiefproof toilet roll holder plugged.	No	3	
---	--	----	---	--

Grade 304 stainless steel ware:

8	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	1	
---	--	----	---	--

9	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	1	
---	---	----	---	--

Satin Grey Plastics or equal approved

10	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.	No	2	
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Section 2
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Ironmongery

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Ironmongery

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Section 2

Bill No. 9

Ironmongery

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

R

Section 2
Bill No. 10
Metalwork

ALUMINIUM WINDOWS

All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA.

All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction.

All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.

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

- | | | | | |
|---|---|----|---|--|
| 1 | Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01. | No | 7 | |
|---|---|----|---|--|

HOT DIP GALVANIZED STEEL GATES

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

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

- | | | | | |
|---|--|----|---|--|
| 2 | Security gate size 900 x 2050mm high (G1). | No | 1 | |
|---|--|----|---|--|

LOCKABLE MANHOLE COVERS

- | | | | | |
|---|---|----|---|--|
| 3 | 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 | 2 | |
|---|---|----|---|--|

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Metalwork

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Metalwork

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Section 2
Bill No. 10
Metalwork

Section 2
Bill No. 12
Plumbing and Drainage (Provisional)

<u>Solid Cast brass taps, valves, etc:</u>					
6	"Cobra KM2-200" or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	4		
7	15mm Ball-o-stop valve.	No	3		
8	22mm Non Return valve.	No	4		
<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 unslopped waste outlet.	No	2		
11	40mm Rubber "P" or "S" trap	No	2		
<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	1		
13	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No			
14	Bambi Longdrop VIP Pit pedestal for children complete with C/W flap. size: 282 x 360 x 300mm.	No	2		
<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		
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Section 2					
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Plumbing and Drainage (Provisional)					

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	2
	<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	
	<u>SANITARY PLUMBING</u>		
	<u>PVC waste or vent pipes and fittings:</u>		
18	50mm Waste pipe.	m	35
19	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	12
20	110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres.	m	16
	<u>uPVC gulleys</u>		
21	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gulley (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	1
	<u>Extra for:</u>		
22	50mm Bend.	No	9

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Section 2
Bill No. 12
Plumbing and Drainage (Provisional)

23	50mm Access bend.	No	3
24	Envirosan or equal approved fly screens to top of 110 diameter vent pipe.	No	4

WATER SUPPLIES

Polycop pipes:

Pipes shall be class 10.

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level

Polycop pipes chased in walls:

Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Class 10 Polycop pipes:

25	15mm Pipe chased into brick walls.	m	35
26	22mm Pipe chased into brick walls.	m	13

Extra over polycop pipes for compression fittings:

27	15mm Fittings.	No	24
28	22mm Fittings.	No	15

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Section 2
Bill No. 12
Plumbing and Drainage (Provisional)

Connection to existing water supply

29 Allow for connection to existing water supply.

Testing

30 Testing water pipe system

Item

Item

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Section 2
Bill No. 12
Plumbing and Drainage (Provisional)

Section 2

Bill No. 12

Plumbing and Drainage (Provisional)

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Section 2

Bill No. 12

Plumbing and Drainage (Provisional)

PAINTWORK ETC TO NEW WORK

ON METAL SURFACES

Apply Metalcare galvanized iron cleaner (GIC 1) to all bare galvanised areas. Allow to react for one minute and rinse off with tap water using Bristle brush or Scotch Brite pads to remove all surface contaminants until surface is water break-free. Prime with one coat metalcare galvanised iron primer (GIP 1 - with TVOC level of 25g/l) with an overcoating time of 24 hours and finish with two coats metalcare WB enamel (WBE with TVOC level of <75g/l) with 4 hours drying time between coats.

1	Gates, grilles, burglar screens, balustrades, etc.	m2	4	
---	--	----	---	--

ON WOOD

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

2	On doors	m2	11	
---	----------	----	----	--

3	On door frames	m2	3	
---	----------------	----	---	--

Prepare and apply two coats carbolenium on:

4	On exposed timbers.	m2	11	
---	---------------------	----	----	--

ON FIBRE-CEMENT

Prepare and apply two coats pure acrylic roof paint on:

5	On fascias and barge boards.	m2	4	
---	------------------------------	----	---	--

ON PVC VENT PIPE

Prepare and apply two coats black PVA paint:

6	Vent Pipes	m2	15	
---	------------	----	----	--

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Paintwork

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Paintwork

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Bill No. 13
Paintwork

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Item No	Quantity	Rate	Amount
<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 "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>THE FOLLOWING IN PLATFORMS, ETC.</u>			
<u>Site Clearance, ETC</u>			
1	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	260
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	260
<u>Open face excavation not exceeding 2m deep:</u>			
3	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m3	110
<u>Extra over all excavations for carting away:</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	110
Carried to Collection			R
Section 3			
Bill No. 1			
External Works			

<u>Earth filling from excavated material</u>					
5	Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.	m3	80		
<u>Filling supplied by the contractor to form platforms</u>					
6	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	261		
<u>Surface Preparation:</u>					
7	Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.	m2	220		
<u>Prescribed density tests on filling:</u>					
8	Modified AASHTO Density test.	No	10		
<u>WATER RETICULATION</u>					
<u>WATER SUPPLY IN GROUND</u>					
<u>HDPE 100PN 12.5 pressure pipes:</u>					
9	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	44		
10	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	44		
<u>Extra over (PN12.5) HDPE piping for fittings:</u>					
11	32mm Bend.	No	20		
12	32mm Adaptor.	No	20		
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Bill No. 1					
External Works					

13	40mm Bend.	No	20
14	32mm Tee.	No	25
15	40mm Tee.	No	25
<u>Municipal connection</u>			
16	Allow for amount of R10 000.00 (Ten Thousand Rand) for municipal water connection to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	10 000.00
17	Allow for profit if required.	%	
<u>Testing:</u>			
18	Testing water pipe system.	Item	
<u>SEWER RETICULATION</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>uPVC pipes and fittings</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed.			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.			
<u>Excavations:</u>			
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.			
			R
Carried to Collection			
Section 3 Bill No. 1 External Works			

Soft rock and hard rock shall be as defined in Earthworks.

Laying, backfilling, bedding, etc of pipes:

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SABS 1200

- L : Medium pressure pipelines
- LD : Sewers
- LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200
- DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.

Descriptions of pipes laid in trenches:

Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site

Descriptions of catchpits, junction boxes, manholes, etc:

Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.

Density testing on filling:

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

BULK SEWER RETICULATION

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<u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u>						
19	110mm Pipes laid in and including trenches not exceeding 1m deep	m	110			
20	110mm Pipes laid in and including trenches exceeding 1m but not exceeding 2m deep	m	110			
<u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u>						
21	110mm Bend	No	50			
22	160mm Bend	No	50			
23	110mm Rodding eye	No	50			
24	160 x 110mm Reducing junction	No	50			
<u>PRE-CAST CONCRETE MANHOLES</u>						
<u>Pre-cast concrete circular inspection chambers including pre-cast concrete cover slabs, covers and channels in benching</u>						
25	Manhole 1000mm diameter not exceeding 1m deep.	No	1			
26	Manhole 1000mm diameter exceeding 1m and not exceeding 2m deep.	No	1			
<u>SUNDRIES</u>						
<u>Earthworks</u>						
27	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m3	80			
28	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m3	90			
29	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	No	25			
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	<u>Manhole covers</u>				
30	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	4		
	<u>Connection</u>				
31	Allow for connecting to Waste Water Treatment System (WWTS).		Item		
	<u>Testing:</u>				
32	Testing drainage system.		Item		
	<u>THE FOLLOWING IN WALKWAYS</u>				
	<u>Excavation not exceeding 2m deep</u>				
33	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	60		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
34	Off site to a dumping site to be found by the Contractor.	m3	60		
	<u>Filling supplied by the contractor under walkways</u>				
35	G7 Base course material compacted to 98% Mod AASHTO density	m3	30		
36	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	30		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
37	Under floors,etc.	m2	500		
	<u>Prescribed density tests on filling:</u>				
38	In-situ dry density test.	No	6		
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	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
39	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	100		
	<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>				
40	Paving to walkway areas, etc laid to falls.	m2	111		
	<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>				
41	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	85		
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<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
42	Trenches.	m3	10		
<u>Extra over all excavations for carting away:</u>					
43	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	10		
<u>Risk of collapse of excavations:</u>					
44	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	55		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>					
45	Backfilling to trenches, holes, etc.	m3	12		
<u>Filling supplied by the contractor under strip footing</u>					
46	G7 Base course material compacted to 98% Mod AASHTO density	m3	12		
47	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	24		
<u>Compaction of surfaces</u>					
48	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	80		
<u>25 Mpa/19mm Concrete</u>					
49	Strip footings.	m3	35		
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	<u>Test blocks:</u>				
50	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Reinforcement (Provisional)</u>				
51	High tensile steel reinforcement bars to structural concrete work.	t	2.28		
	<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>				
52	One brick walls.	m2	90		
	<u>Brickwork reinforcement:</u>				
53	230mm Wide reinforcement built in horizontally.	m	55		
54	Ditto but in foundations.	m	35		
	<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>				
55	One brickwall faced on both sides.	m2	58		
	<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>				
56	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	60		
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<u>STORMWATER CHANNELS</u>					
<u>Excavation not exceeding 2m deep</u>					
57	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	25		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
58	Off site to a dumping site to be found by the Contractor.	m3	25		
<u>Filling supplied by the contractor under channels</u>					
59	G7 Base course material compacted to 98% Mod AASHTO density	m3	9		
60	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	5		
<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>					
61	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	25		
62	Extra for 700mm angle	No	10		
63	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	10		
<u>THE FOLLOWING IN DISABLED ACCESS</u>					
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<u>SCREEN WALL</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
64	Trenches.	m3	5		
<u>Extra over all excavations for carting away:</u>					
65	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	5		
<u>Risk of collapse of excavations:</u>					
66	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	10		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>					
67	Backfilling to trenches, holes, etc.	m3	15		
<u>Filling supplied by the contractor under strip footing</u>					
68	G7 Base course material compacted to 98% Mod AASHTO density	m3	14		
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.	m3	18		
<u>Compaction of surfaces</u>					
70	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	44		
<u>25 Mpa/19mm Concrete</u>					
71	Strip footings.	m3	5		
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	<u>Test blocks:</u>				
72	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	<u>Reinforcement (Provisional)</u>				
73	High tensile steel reinforcement bars to structural concrete work.	t	0.94		
	<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>				
74	One brick walls.	m2	25		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork reinforcement:</u>				
75	230mm Wide reinforcement built in horizontally.	m	280		
76	Ditto but in foundations.	m	30		
	<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>				
77	One brickwall faced on both sides.	m2	38		
	<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>				
78	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	115		
	<u>ACCESS RAMPS</u>				
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	<u>Excavation not exceeding 2m deep</u>				
79	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	9		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
80	Off site to a dumping site to be found by the Contractor.	m3	9		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
81	G7 Base course material compacted to 98% Mod AASHTO density	m3	5		
82	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	5		
	<u>Coarse river sand filling supplied by the contractor:</u>				
83	Under floors etc.	m3	3		
	<u>Compaction of surfaces:</u>				
84	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	8		
	<u>Prescribed density tests on filling:</u>				
85	In-situ dry density test.	No	4		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
86	Ramps, Landings, etc.	m3	2		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
87	Surface beds, slabs, etc to falls and currents.	m2	5		
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	<u>Test blocks:</u>				
88	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
89	12mm Joints not exceeding 300mm high.	m	6		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
90	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	6		
	<u>Fabric reinforcement:</u>				
91	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	10		
	<u>Waterproofing under Surface beds</u>				
92	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	10		
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<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>					
<u>Excavation not exceeding 2m deep</u>					
93	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	75		
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>					
94	Off site to a dumping site to be found by the Contractor.	m3	62		
<u>Filling supplied by the contractor under driveways</u>					
95	G7 Base course material compacted to 98% Mod AASHTO density	m3	40		
96	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	40		
<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>					
97	Under floors,etc.	m2	75		
<u>Prescribed density tests on filling:</u>					
98	In-situ dry density test.	No	4		
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>					
99	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	230		
<u>150-175mm diameter bollards</u>					
100	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	7		
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<u>THE FOLLOWING IN RETAINING WALLS, ETC.</u>			
	<u>Excavation in earth not exceeding 2m deep</u>		
101	Trenches.	m3	4
	<u>Risk of collapse of excavations:</u>		
102	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	15
	<u>Keeping excavations free of water:</u>		
103	Keeping excavations free of all water other than subterranean water.		Item
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
104	Off site to a dumping site to be found by the Contractor.	m3	5
	<u>Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>		
105	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	30
	<u>Compaction of surfaces</u>		
106	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	28
	<u>15Mpa/19mm unreinforced concrete</u>		
107	Surface blinding under footings and bases.	m3	15
	<u>30Mpa/19mm reinforced concrete</u>		
108	Strip footings.	m3	4
109	Cavity walls.	m3	18
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	<u>Test blocks:</u>				
110	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Fabric reinforcement:</u>				
111	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	17		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>				
112	One brickwalls in foundations	m2	180		
113	One brick walls	m2	58		
	<u>Brickwork reinforcement:</u>				
114	230mm Wide reinforcement built in horizontally.	m	50		
	<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>				
115	Extra over brickwork for face brickwork externally.	m2	15		
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>				
116	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	12		
	<u>Openings in Walls etc.</u>				
117	Leave or form 32mm weephole through one brick wall	No	12		
	<u>Membranes</u>				
118	"Geofabric filter blanket wrapped around stone with 300mm side and 300mm end laps, including stitching.	m2	4		
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	Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:			
119	19mm Stone.	m3	2	
	<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>			
	<u>STORMWATER APRONS</u>			
	<u>Excavation not exceeding 2m deep</u>			
120	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	6	
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>			
121	Off site to a dumping site to be found by the Contractor.	m3	7	
	<u>Filling supplied by the contractor under floors, aprons, etc</u>			
122	G7 Base course material compacted to 98% Mod AASHTO density	m3	5	
123	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	5	
	<u>Coarse river sand filling supplied by the contractor:</u>			
124	Under floors etc.	m3	3	
	<u>Compaction of surfaces:</u>			
125	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	22	
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	<u>Prescribed density tests on filling:</u>				
126	In-situ dry density test.	No	2		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
127	Surface beds cast in panels on waterproofing.	m3	3		
128	Edge thickening	m3	2		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
129	Surface beds, slabs, etc to falls and currents.	m2	15		
	<u>Test blocks:</u>				
130	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
131	12mm Joints not exceeding 300mm high.	m	8		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
132	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	8		
	<u>Fabric reinforcement:</u>				
133	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	15		
	<u>Waterproofing under Surface beds</u>				
134	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	15		
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STORMWATER CHANNELS

Excavation not exceeding 2m deep

135	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	6
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
136	Off site to a dumping site to be found by the Contractor.	m3	4
	<u>Filling supplied by the contractor under channels</u>		
137	G7 Base course material compacted to 98% Mod AASHTO density	m3	2
138	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2
	<u>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>		
139	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	16
140	Extra for 700mm angle	No	2
141	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	1

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	<u>Sundries:</u>				
142	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	9		
	<u>THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.</u>				
	<u>Excavation not exceeding 2m deep</u>				
143	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	29		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
144	Off site to a dumping site to be found by the Contractor.	m3	24		
	<u>Filling supplied by the contractor under floors, aprons, channels etc</u>				
145	G7 Base course material compacted to 98% Mod AASHTO density	m3	3		
146	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>				
147	Under floors etc.	m3	6		
	<u>Compaction of surfaces:</u>				
148	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	18		
	<u>Prescribed density tests on filling:</u>				
149	In-situ dry density test.	No	1		
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	<u>Reinforced 25Mpa/19mm Concrete:</u>				
150	Surface beds cast in panels on waterproofing.	m3	4		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
151	Surface beds, slabs, etc to falls and currents.	m2	28		
	<u>Test blocks:</u>				
152	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
153	12mm Joints not exceeding 300mm high.	m	14		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
154	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	14		
	<u>Fabric reinforcement:</u>				
155	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
	<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>				
	<u>Site Clearance, ETC</u>				
156	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	14		
	<u>Excavation in earth not exceeding 2m deep:</u>				
157	Trenches.	m3	4		
	<u>Extra over all excavations for carting away:</u>				
158	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	4		
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	<u>Risk of collapse of excavations:</u>				
159	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	7		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
160	Backfilling to trenches, holes, etc.	m3	6		
	<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>				
161	19mm Stone.	m3	4		
	<u>Membrane</u>				
162	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	40		
	<u>Keeping excavations free of water:</u>				
163	Keeping excavations free from mud and all water including subterranean sources.		Item		
	<u>Compaction of surfaces</u>				
164	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	22		
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	<u>SOIL DRAINAGE</u>				
	<u>110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>				
165	110mm uPVC pipe.	m	15		
	<u>Extra for:</u>				
166	110mm Tee.	No	2		
167	110mm Y junction.	No	1		
	<u>THE FOLLOWING IN SOAKAWAY</u>				
	<u>Site Clearance, Etc</u>				
168	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	3		
	<u>Excavation in earth not exceeding 2m deep:</u>				
169	Holes	m3	3		
	<u>Extra over all excavations for carting away</u>				
170	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	3		
	<u>Risk of collapse of excavations</u>				
171	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	10		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
172	Backfilling to holes	m3	2		
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	<u>Earth filling with stone material supplied by the contractor:</u>				
173	Stone (>63mm).	m3	1		
	<u>Membranes</u>				
174	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	10		
	<u>Keeping excavations free of water</u>				
175	Keeping excavations free of all water other than subterranean water		Item		
	<u>THE FOLLOWING IN CULVERTS</u>				
	<u>Class 50D concrete pipes:</u>				
176	450mm Diameter Concrete pipe laid in trenches not exceeding 1m deep including excavation, backfill, bedding, cart away and compaction.	m	7		
	<u>Manholes:</u>				
177	Manhole size 600 x 600mm not exceeding 1m deep internally to invert level formed of hard burnt half brick sides in 1:3 cement mortar on and including 100mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom reinforced with Y10 bars at 200c/c both directions and projecting 150mm beyond sides, cast on 50mm thick concrete Blinding (15Mpa) and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with with C.I step irons staggered at 300c/c with 150mm thick grade 25 reinforced precast concrete manhole cover rebated for and fitted with and including cast iron double seal cover and frame type 14B in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in to allow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2		
	<u>THE FOLLOWING IN HEADWALLS</u>				
178	Excavation not exceeding 2m deep.	m3	3		
179	Keeping excavations free from water		Item		
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180	Carting away surplus excavated material	m3	3		
181	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	2		
182	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	2		
183	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	2		
184	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	17		
185	Mesh reinforcement Ref 193 in concrete bottom slab.	m2	6		
186	One brick wall of 14 MPa NFX bricks.	m2	6		
187	230mm Wide reinforcement built in horizontally.	m	17		
188	Extra over brickwork for "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 face brickwork externally.	m2	48		
189	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	12		
190	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	6		
<u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
191	Trenches.	m3	6		
<u>Extra over all excavations for carting away:</u>					
192	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	6		
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	<u>Risk of collapse of excavations:</u>				
193	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	22		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
194	Backfilling to trenches, holes, etc.	m3	18		
	<u>Filling supplied by the contractor under strip footing, floors etc.</u>				
195	G7 Base course material compacted to 98% Mod AASHTO density	m3	12		
196	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	12		
	<u>Compaction of surfaces</u>				
197	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	9		
	<u>25 Mpa/19mm Concrete</u>				
198	Strip footings.	m3	6		
	<u>25 MPa/19mm Concrete:</u>				
199	Tank concrete slab.	m3	12		
	<u>Test blocks:</u>				
200	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
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	<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>				
201	Surface beds, slabs, etc.	m2	11		
	<u>Rough Formwork to Sides:</u>				
202	Edges, risers, ends and reveals not exceeding 300mm high.	m	9		
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
203	Type 617 fabric reinforcement in concrete slabs.	m2	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>				
204	One brick walls.	m2	22		
	<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>				
205	One brick walls.	m2	65		
	<u>Brickwork reinforcement:</u>				
206	230mm Wide reinforcement built in horizontally.	m	67		
207	Ditto but in foundations.	m	50		
	<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>				
208	Extra over brickwork for face brickwork externally.	m2	22		
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	<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>		
209	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	17
	<u>Plastic water tanks etc:</u>		
210	5000 Litre roto molded or equal approved plastic tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	7
211	Hole top of tank for 100mm pipe.	No	7
	<u>THE FOLLOWING IN BUFFER TANKS</u>		
	<u>Site Clearance etc.</u>		
212	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	15
213	Stripping average 300mm thick layer of topsoil and stockpiling on site.	m2	15
	<u>Excavation Other than Bulk</u>		
	<u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>		
214	Trenches, Holes	m3	20
	<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation in:</u>		
215	Soft rock.	m3	3
216	Hard rock.	m3	2

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	<u>Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
	<u>Filling with material from the excavations compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
220	Backfilling to trenches, holes, etc.	m3	25		
	<u>Filling with approved 5% stabilised G6 backfill soilcrete supplied and carted onto site by the Contractor and compacted to 95% Mod AASHTO density:</u>				
221	Under trenches, holes, surface beds, etc.	m3	15		
	<u>Compaction of surfaces.</u>				
222	Compaction of ground surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material from excavated material where necessary and compacting to 87% Mod AASHTO density.	m2	30		
	<u>Prescribed density tests on filling</u>				
223	Modified AASHTO Density test.	No	5		
	<u>Keeping excavations free of water:</u>				
224	Keeping excavations entirely free of all water or mud.		Item		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>25 MPa/19mm Reinforced Concrete:</u>				
225	Base slabs.	m3	4		
226	Suspended Slabs.	m3	6		
	<u>Test blocks:</u>				
227	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	4		
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	Supply and fit complete to manufacturer's standards the following to downpipes and tanks to prevent blocking and intrusion of mosquitoes and pests to tanks.				
236	Leaf eater rain heads	No	5		
237	Screen filter	No	5		
238	First flush diverters	No	5		
	Sundries:				
239	Galvanized reno mattresses 2.0m X 1.0m X 0.3m deep with 60 x 80 mm mesh filled with 100 - 150mm stones.	m3	20		
	Carting of Water				
240	Supply/carting of portable water to an elevated tank including once off testing of reliable source	l	12		
	MANHOLE COVERS				
241	600 x 600mm Type 2A Heavy duty cast iron manhole cover and frame to SABS 558.	No	2		
	UNDERGROUND PUMP:				
	<u>Prepare and Install a complete set of submersible pump:</u>				
242	SVM 285/07 Wet End	No	5		
243	1,5KW Franlil 230V Motor.	No	5		
244	1,5KW Data 120 Control Box.	No	5		
245	32mm Base plate cast iron.	No	5		
246	2,5mm X 4 Core Aquavern submersible cable (meters).	m	5		
247	HDPE 32mm Class 12 piping (meters).	No	5		
248	Installation and Commission.		Item		
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SECURITY FENCING

Site clearance

249	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	35		
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Straining wires, fencing and razor wire:

250	Four strands of 4 mm 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	50		
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251	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	50		
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252	Fencing formed of 100 x 50 x 2.5mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres (straining wires elsewhere measured).	m	110		
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Posts for 1 800mm high security fence:

253	60 mm 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	10		
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254	100 mm 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	10		
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255	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	10		
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256	12 mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	10		
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257	Form 12mm diameter hole through fence post.	No	10	
	<u>Gates:</u>			
258	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	
	<u>Padlocks</u>			
259	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	3	
	<u>THE FOLLOWING IN ELEVATED TANKS</u>			
	<u>Site Clearance, etc.</u>			
260	Allow for clearing of site of all vegetable matter, rubbish, etc.including small trees having a circumference of less than 200mm measured at a height of 1 000mm above ground level, that may be encountered and roughly level site to be built upon and carting away any debris to a site to be found by the contractor.	m2	42	
261	Strip average 200mm thick layer of topsoil and stockpile on site.	m2	42	
	<u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>			
262	Holes	m3	18	
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	<u>Risk of collapse of excavations other than bulk:</u>				
263	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep.	m2	35		
	<u>Carting away</u>				
264	Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations.(measured nett - no allowance made for bulking)	m3	22		
	<u>Keeping excavations free of water:</u>				
265	Keeping excavations entirely free of all water or mud.		Item		
	<u>25 MPa/19mm Reinforced Concrete:</u>				
266	Bases	m3	28		
	<u>Test blocks:</u>				
267	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	<u>High tensile steel reinforcement to structural concrete work:</u>				
268	12mm Diameter bars.	t	2.00		
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
	<u>Galvanised steel Pipe</u>				
269	65mm Mild steel galvanised pipes fixed to elevated tank stand.	m	80		
	<u>Extra over for pipe fittings.</u>				
270	Bend	No	5		
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	<u>ELEVATED POLYETHYLENE WATER TANK</u>				
271	Supply and Erect Galvanised Mild Steel Water Tank Stand to support 1 x 10 000 litre and 1 x 5 000 litre Polyethylene Water Tanks (elsewhere measured) at 4000mm height above natural ground level.	t	2.50		
272	Supply and Install 1 x 5 000 litre Polyethylene water tank complete with all control valves, fittings, holding down ties or straps etc and install to Elevated tank stand (elsewhere measured) at 4 000mm height from natural ground level.	No	9		
	<u>Supply and fit complete to manufacturer's standards the following to downpipes and tanks to prevent blocking and intrusion of mosquitoes and pests to tanks.</u>				
273	Leaf eater rain heads	No	8		
274	Screen filter	No	8		
275	First flush diverters	No	8		
	<u>SECURITY FENCING</u>				
	<u>Site clearance</u>				
276	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	80		
	<u>Straining wires, fencing and razor wire:</u>				
277	Four strands of 4 mm 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	25		
278	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	25		
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279	Fencing formed of 100 x 50 x 2.5mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres (straining wires elsewhere measured).	m	30		
	<u>Posts for 1 800mm high security fence:</u>				
280	60 mm 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	12		
281	100 mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	12		
282	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	12		
283	12 mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	12		
284	Form 12mm diameter hole through fence post.	No	12		

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THE FOLLOWING IN SECURITY FENCING, ETC

Site clearance

287	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2	85
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Straining wires, fencing and razor wire:

288	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	83
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289	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	63
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290	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	63
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Posts for 1 800mm high security fence:

291	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
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292	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	6
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293	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	2
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CLUSTER 120
NTLOKO PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME

294	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	20		
295	Form 12mm diameter hole through fence post.	No	20		
	<u>Gates:</u>				
296	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		
297	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	1		
	<u>PADLOCKS</u>				
298	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	2		
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	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
	<u>TEMPORAL SANITATION</u>			
1	Provide the sum of R50 000.00 for temporal ablution facilities including cleaning and servicing.	Item		50 000.00
2	Profit	Item		
3	Attendance	Item		
	<u>COMMUNITY LIAISON OFFICER</u>			
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	Profit	Item		
6	Attendance	Item		
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