

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: Suite 43, Post net Private Bag x20004,
Empangeni

Telephone: 035 772 2552

Facsimile:

Physical address: Unit F1, The Park, Pearce Crescent,
Empangeni , 3880

Principal Agent: Abakali Group (Pty) Ltd

Postal Address: P.O Box 1273, Westville, Durban

Telephone: 031 279 3400

Facsimile: 031 279 3416

Physical address: Suite 204, 2nd Floor, Lupin House , 1
Lupin Road, Asherville, 4091

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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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Penalty amount will be R 2000 per Calendar day to a maximum of 10% of Contract Value.

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

With a deductible of : 5% of Insured Amount

Clause 42.3.2

Supplementary insurance is required : Yes

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

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5 000 000.00

With a deductible of: 5% of Insured Amount

DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

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

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

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

Clause 42.4.4

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

Clause 42.4.5

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

Clause 42.4.6

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

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.

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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 12 (Twelve) weeks from the closing date of tenders.	Item	
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1) The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.	Item	
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	The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
48	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item		
49	F: V: T: Inspection of the Site (B3.3)	Item		
50	F: V: T: Existing premises occupied (B3.4)	Item		
51	F: V: T: Previous work - dimensional accuracy (B3.5)	Item		
52	F: V: T: Previous work - defects (B3.6)	Item		
53	F: V: T: Services - known (B3.7)	Item		
54	F: V: T: Services - unknown (B3.8)	Item		
55	F: V: T: Protection of trees (B3.9)	Item		
56	F: V: T: Articles of value (B3.10)	Item		
57	F: V: T: Inspection of adjoining properties (B3.11)	Item		
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58	F: V: T:	Item	
<u>MANAGEMENT OF CONTRACT (B4)</u>			
	Management of the Works (B4.1)		
59	F: V: T:	Item	
	Programme for the Works (B4.2)		
60	F: V: T:	Item	
	Progress meetings (B4.3)		
61	F: V: T:	Item	
	Technical meetings (B4.4)		
62	F: V: T:	Item	
<u>SAMPLES AND SHOP DRAWINGS (B5)</u>			
	Samples of materials (B5.1)		
63	F: V: T:	Item	
	Workmanship samples (B5.2)		
64	F: V: T:	Item	
	Shop drawings (B5.3)		
65	F: V: T:	Item	
<u>TEMPORARY WORKS AND PLANT (B6)</u>			
	Deposits and fees (B6.1)		
66	F: V: T:	Item	
	Enclosure of the works (B6.2)		
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	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)	Item		
68	F: V: T: Plant and equipment (B6.4)	Item		
69	F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item		
70	Supply, deliver and install a Contract Name Board in accordance with the clients requirements	Item		
71	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item		
72	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)	Item		
73	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
74	F: V: T: Electricity (B7.3)	Item		
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	The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).			
75	F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
76	F: V: T: Ablution facilities (B7.5) The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
77	F: V: T: <u>PRIME COST AMOUNTS (B8)</u> Responsibility for prime cost amounts (B8.1)	Item		
78	F: V: T: <u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u> General Attendance (B9.1)	Item		
79	F: V: T: Special Attendance (B9.2)	Item		
80	F: V: T: Commissioning - fuel, water and power (B9.3)	Item		
81	F: V: T:	Item		
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FINANCIAL ASPECTS (B10)

Statutory taxes, duties and levies (B10.1)

Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).

82 F: V: T:

Item

Payment of Preliminaries (B10.2)

83 F: V: T:

Item

Adjustment of Preliminaries (B10.3)

84 F: V: T:

Item

Payment certificate cash flow (B10.4)

85 F: V: T:

Item

Contractor information supply (B10.5)

86 F: V: T:

Item

GENERAL (B11)

Protection of the Works (B11.1)

87 F: V: T:

Item

Protection/isolation of existing/sectionally occupied works (B11.2)

88 F: V: T:

Item

Site security (B11.3)

89 F: V: T:

Item

Notice before covering work (B11.4)

90 F: V: T:

Item

Disturbance (B11.5)

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91	F: V: T: Works cleaning and clearing (B11.6)	Item	
92	F: V: T: Vermin (B11.7)	Item	
93	F: V: T: Overhand work (B11.8)	Item	
94	F: V: T:	Item	

SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

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

95	F: V: T: C2. Trade Names, etc. All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.	Item	
96	F: V: T:	Item	

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	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.			
97	F: V: T: C4. Overtime Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.	Item		
98	F: V: T: C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.	Item		
99	F: V: T: 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:	Item		
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	a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book: The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
100	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		
101	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		
102	F: V: T: C9. Encroachment	Item		
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	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.			
103	F: V: T: C10. Method Statement 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.	Item		
104	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		
105	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.	Item		
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	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.			
106	F: V: T: C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.	Item		
107	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		
108	F: V: T: <u>C15. Storage Facilities</u>	Item		
109	The Contractor shall provide a lockable Container for storage of materials, Eating area, store room for PPE, tools and equipments,	Item		
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110	F: V: T:	Item	
	C16. Removal and Making Good of Temporary Works, etc, on Completion		
	The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.		
111	F: V: T:	Item	
112	Community Liaison Officer, etc		
	F =.....V =.....T=.....	Item	
113	Provide the sum of R37 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the full contract duration.	Item	
	The Contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract		
	A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The Contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.		
	Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:		
	1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by contractor.		
	2. Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor.		
	3. Assisting the contractor by identifying areas of		
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- potential conflict and or threats to the project or to stakeholders in the project and recommend appropriate action to the contractor.
4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise.
 5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained
 6. Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained
 7. Identifying and reporting to the Contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications
 8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the Contractor regarding the grievances and solution thereto.
 9. Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time.
 10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.
 - keeping a site diary & recording details of any labour/community issues that may arise
 - monitoring and reporting on general Health & Safety issues on site
 - assisting in HIV/AIDS awareness programmes
 - it must be noted that the CLO has no authority to issue any instructions to the Contractor

Should the CLO function not involve a full day's work, the CLO will be expected to undertake other work allocated by the Contractor for the balance of each day

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	Responsibility for the identification of a pool of suitable labour shall rest with the CLO, although the contractor shall have the right to choose from that pool. The contractor shall have the right to determine the total number of labourers required at any time, and this will vary through the duration of the contract. The contractor shall have the right to replace labour that is not performing adequately. The contractor should ensure that the replacement of any labour due to inadequate performance is done so in conjunction with the CLO. Local labour shall be paid in accordance with the Civil Engineering Industry minimum wage rate. (See www.labour.gov.za or www.safcec.co.za), and all statutory conditions of employment shall be met			
114	SUB - TOTAL: FIXED ITEMS	Item		
115	SUB - TOTAL: VALUE - RELATED ITEMS	Item		
116	SUB - TOTAL: TIME - RELATED ITEMS	Item		
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**ENHLOSWENI PRIMARY SCHOOL
THE MVULA TRUST SAFE PROGRAMME**

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Preliminaries

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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	10
7	Provision of first aid boxes.	No	1

Provision for Personal Protective Equipment and Protective Clothing:

8	Reflective vests.	No	10
9	Hard hats.	No	10
10	Protective foot wear.	No	10
11	Ear Plugs.	No	10
12	Dust Masks.	No	10

Costs of Medical Certificates and Medical Surveillance:

13	Initial (baseline) medical examinations.	No	10
14	Exit Examinations.	No	10

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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 carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

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

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

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

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

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TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

- | | | | |
|---|--|----|-----|
| 1 | 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 | 116 |
| 2 | Extra over mesh fence for double leaf gate size 5.5 x 1,8m high. | No | 2 |

DE-SLUDGING EXISTING TOILETS

- | | | | |
|---|--|----|------|
| 3 | 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 | 2 |
| 4 | Issue of Certificate of Waste Disposal. | | Item |

DEMOLISHING AND REMOVING

- | | | | |
|---|---|----|------|
| 5 | Demolish pit latrine structure comprising of brick/block work with asbestos roof sheeting, approximate size 8 x 3m wide with 3,5m high top structure and 2,0m deep pit with 5 cubicles. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured). | No | 1 |
| 6 | Cart away rubble from demolitions and dispose off site. | | Item |
| 7 | Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density. | m3 | 42 |
| 8 | Allow for compaction tests by an approved laboratory to determine density of filling material. | No | 16 |
| 9 | Provision of a certificate of safe disposal for asbestos. | | Item |

REMOVAL OF EXISTING WORK

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10	<u>Taking out and removing existing fencing and gate of ablution block, including disconnecting post from the ground and breaking concrete bases, backfill, compact and making good</u> Existing fence	m	22	
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	<u>SECTION 3</u> <u>BILL No. 1</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: A0 - DWG 01 - Staff Ablutions A1 - DWG 06 - Grade R Ablutions A6 - DWG 01 - Male Ablutions AD - DWG 01 - Female Ablutions <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.			
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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 oukclip 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.

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ABAKALI GROUP

EXCAVATION OTHER THAN BULK

Excavation in earth not exceeding 2m deep:

1	Trenches.	m3	65
	A0 : 16 A1 : 20 A6 : 14 AD : 15		
2	Holes.	m3	167
	A0 : 50 A1 : 39 A6 : 23 AD : 55		
3	Reduced levels under floors.	m3	15
	A0 : 3 A1 : 5 A6 : 3 AD : 4		

Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod. AASHTO density at 2% OMC

4	Not exceeding 500mm deep for placing and removing formwork to walls, etc. against excavated face	m2	35
	A0 : 35 A1 : 0 A6 : 0 AD : 0		
5	Exceeding 500mm and not exceeding 1.5m deep for placing and removing formwork to walls, etc. against excavated face	m2	15
	A0 : 15 A1 : 0 A6 : 0 AD : 0		

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

6	Soft rock.	m3	30
	A0 : 30 A1 : 0 A6 : 0 AD : 0		
7	Hard rock.	m3	25
	A0 : 25 A1 : 0 A6 : 0 AD : 0		

Extra over back excavation in earth for working space for excavation in soft rock

8	Not exceeding 500mm deep for placing and removing formwork to walls, etc. against excavated face	m2	40
	A0 : 40 A1 : 0 A6 : 0 AD : 0		
9	Exceeding 500mm and not exceeding 1.5m deep for placing and removing formwork to walls, etc. against excavated face	m2	50
	A0 : 50 A1 : 0 A6 : 0 AD : 0		

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<u>Extra over back excavation in earth for working space for excavation in hard rock</u>					
10	Not exceeding 500mm deep for placing and removing formwork to walls, etc. against excavated face A0 : 40 A1 : 0 A6 : 0 AD : 0	m2	40		
11	Exceeding 500mm and not exceeding 1.5m deep for placing and removing formwork to walls, etc. against excavated face A0 : 25 A1 : 0 A6 : 0 AD : 0	m2	25		
<u>Extra over all excavations for carting away:</u>					
12	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. A0 : 65 A1 : 58 A6 : 35 AD : 69	m3	227		
<u>Risk of collapse of excavations:</u>					
13	Sides of trench and hole excavations not exceeding 1,5m deep. A0 : 46 A1 : 57 A6 : 40 AD : 42	m2	186		
14	Ditto, but from ground level to exceeding 1,5m. A0 : 46 A1 : 39 A6 : 29 AD : 48	m2	162		
<u>Keeping excavations free of water:</u>					
15	Keeping excavations free from mud and all water including subterranean sources.(Surface and Ground water; the use of pumps or other methods as deemed necessary by the contractor)		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>					
16	Backfilling to trenches, holes, etc. A0 : 1 A1 : 1 A6 : 0 AD : 0	m3	2		
17	Under floors, steps, pavings, trenches, etc. A0 : 2 A1 : 3 A6 : 2 AD : 2	m3	9		
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	<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>		
18	Under floors, steps, pavings, trenches, etc. A0 : 14 A1 : 16 A6 : 10 AD : 15	m3	55
	<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>		
19	Under floors, steps, pavings, trenches, etc. A0 : 17 A1 : 18 A6 : 15 AD : 17	m3	68
20	Backfilling to holes, trenches, etc. A0 : 14 A1 : 16 A6 : 13 AD : 13	m3	57
	<u>Coarse river sand filling supplied by the contractor:</u>		
21	Under floors etc. A0 : 2 A1 : 2 A6 : 2 AD : 2	m3	7
	<u>Compaction of surfaces:</u>		
22	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. A0 : 34 A1 : 38 A6 : 20 AD : 37	m2	129
	<u>Prescribed density tests on filling:</u>		
23	Allow for compaction tests by an approved laboratory to determine density of filling material. A0 : 8 A1 : 10 A6 : 8 AD : 11	No	37

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SOIL POISONING

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

24	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	58
	A0 : 13 A1 : 21 A6 : 11 AD : 14		
25	To bottoms and sides of trenches, holes, etc.	m2	473
	A0 : 127 A1 : 129 A6 : 91 AD : 126		

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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.

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**UNREINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

15Mpa/19mm Concrete

1	Surface blinding under footings and bases.	m3	3
	A0 : 1 A1 : 1 A6 : 1 AD : 1		

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/20mm concrete:

2	Strip footings to walls.	m3	11
	A0 : 3 A1 : 3 A6 : 2 AD : 2		

REINFORCED CONCRETE

30MPa/20mm concrete:

3	Surface beds on waterproofing.	m3	10
	A0 : 2 A1 : 4 A6 : 2 AD : 2		
4	Suspended Slabs.	m3	15
	A0 : 3 A1 : 4 A6 : 3 AD : 5		
5	Ground base slabs.	m3	14
	A0 : 4 A1 : 3 A6 : 2 AD : 5		
6	Cavity walls.	m3	13
	A0 : 3 A1 : 4 A6 : 3 AD : 3		

TEST BLOCKS

Test blocks:

7	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	24
	A0 : 6 A1 : 6 A6 : 3 AD : 9		

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FINISHING TOP SURFACE OF CONCRETE

Finishing top surfaces of concrete smooth with a wood float:

8	Surface beds, suspended slabs, ground slabs, etc.	m2	188
	A0 : 47 A1 : 58 A6 : 31 AD : 51		

Finishing top surfaces of concrete smooth with a steel float:

9	Surface beds, suspended slabs, etc.	m2	70
	A0 : 13 A1 : 17 A6 : 16 AD : 25		

Charmfers at corners

10	19 x 19mm triangular fillet at corners formed of unreinforced concrete steel trowelled.	m	71
	A0 : 15 A1 : 17 A6 : 17 AD : 23		

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Rough Formwork to Sides:

11	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	69
	A0 : 19 A1 : 17 A6 : 13 AD : 21		

Permanent Formwork:

12	Soffit of slab over pit.	m2	70
	A0 : 13 A1 : 17 A6 : 16 AD : 25		

Extra on permanent formwork for boxing or blocking in or boxing out to form:

13	450mm Diameter opening through 255mm thick slab.	No	3
	A0 : 2 A1 : 1 A6 : 0 AD : 0		
14	200mm Diameter opening through 255mm thick slab.	No	3
	A0 : 0 A1 : 0 A6 : 1 AD : 2		
15	150mm Diameter opening through 255mm thick slab.	No	2
	A0 : 0 A1 : 2 A6 : 0 AD : 0		

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

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	<u>Smooth Formwork to Sides:</u>			
16	Edges, risers, ends and reveals not exceeding 300mm high or wide. A0 : 9 A1 : 7 A6 : 5 AD : 5	m	26	
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>			
17	12mm Joints not exceeding 300mm high (Provisional). A0 : 19 A1 : 24 A6 : 17 AD : 18	m	77	
	<u>Saw cut joints:</u>			
18	6 x 40mm Saw cut joints in top of concrete (Provisional). A0 : 29 A1 : 35 A6 : 25 AD : 26	m	116	
	<u>REINFORCEMENT (PROVISIONAL)</u>			
19	High tensile steel reinforcement bars to structural concrete work. A0 : 0.47 A1 : 0.57 A6 : 0.45 AD : 2.52	t	4.00	
	<u>Fabric reinforcement:</u>			
20	REF. 888 fabric reinforcement in concrete footings, pit walls, pit slabs etc. A0 : 91 A1 : 97 A6 : 67 AD : 107	m2	363	

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	<u>BILL No. 3</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: A0 - DWG 01 - Staff Ablutions A1 - DWG 06 - Grade R Ablutions A6 - DWG 01 - Male Ablutions AD - DWG 01 - Female Ablutions <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. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.			
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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"

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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	82
	A0 : 21 A1 : 25 A6 : 18 AD : 19		
2	345mm thick cavity brick walls made of two leafs of 110mm wall with 135mm concrete fill (concrete elsewhere measured).	m2	92
	A0 : 23 A1 : 26 A6 : 21 AD : 21		

BRICKWORK AND BLOCKWORK SUNDRIES

Galvanized brickwork reinforcement

3	115mm Wide reinforcement built in horizontally	m	386
	A0 : 79 A1 : 126 A6 : 73 AD : 109		
4	230mm Wide reinforcement built in horizontally.	m	731
	A0 : 209 A1 : 239 A6 : 156 AD : 127		
5	Ditto, but in foundations (Provisional).	m	560
	A0 : 140 A1 : 171 A6 : 122 AD : 127		

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	94
	A0 : 25 A1 : 23 A6 : 20 AD : 26		

Air bricks etc:

7	229 x 152mm terracotta clay vermin proof air brick	No	16
	A0 : 4 A1 : 4 A6 : 4 AD : 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	173	
	A0 : 45 A1 : 60 A6 : 34 AD : 33			

Samples

9	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same position to be paved as per given specifications.			Item
---	--	--	--	------

FACE BRICK

"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):

10	Extra over brickwork for face brickwork externally.	m2	14	
	A0 : 4 A1 : 4 A6 : 3 AD : 3			

11	Extra over for face brick in foundations (Provisional).	m2	82	
	A0 : 21 A1 : 25 A6 : 18 AD : 19			

12	Extra over NFP brickwork for face brickwork in beamfilling.	m2	32	
	A0 : 8 A1 : 8 A6 : 8 AD : 8			

13	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	13	
	A0 : 3 A1 : 5 A6 : 3 AD : 3			

14	One brickwall pointed on both sides.	m2	224	
	A0 : 64 A1 : 73 A6 : 48 AD : 39			

15	Half brickwall pointed on both sides.	m2	22	
	A0 : 0 A1 : 11 A6 : 0 AD : 11			

16	Fair raking cutting.	m	36	
	A0 : 9 A1 : 9 A6 : 9 AD : 9			

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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:

17	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	11
	A0 : 1 A1 : 4 A6 : 2 AD : 3		
18	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	13
	A0 : 2 A1 : 4 A6 : 3 AD : 4		

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	<u>BILL No. 4</u> <u>WATERPROOFING</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 01 - Staff Ablutions A1 - DWG 06 - Grade R Ablutions A6 - DWG 01 - Male Ablutions AD - DWG 01 - Female Ablutions <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 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).			
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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.

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Section 3
Bill No. 4
Waterproofing
ABAKALI GROUP

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 | 129 |
| | A0 : 34 A1 : 38 A6 : 20 AD : 37 | | |

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

- | | | | |
|---|--|----|---|
| 2 | Below walls, sills, etc. | m2 | 5 |
| | A0 : 1 A1 : 2 A6 : 1 AD : 1 | | |

JOINT SEALANTS ETC

Clear Neutral silicone sealant:

- | | | | |
|---|--|---|----|
| 3 | In joint sealing and pointing all round external window and door frames. | m | 88 |
| | A0 : 15 A1 : 28 A6 : 19 AD : 26 | | |

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 | 193 |
| | A0 : 48 A1 : 59 A6 : 42 AD : 44 | | |

WATERPROOFING TO PIT WALLS

Coprox waterproofing / ABE dura slurry or similar approved 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 | 96 |
| | A0 : 24 A1 : 28 A6 : 22 AD : 23 | | |

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Waterproofing

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Section 3

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Waterproofing

ABAKALI GROUP

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

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Roof Coverings Etc.
ABAKALI GROUP

Inspection Prior to Installation or Erection

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

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

Protrusion through Sheeted Surfaces

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

Cleaning of Roofs, etc

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

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Roof Coverings Etc.
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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 including harricane clips

- | | | | |
|---|--|----|----|
| 1 | Roof sheeting laid to a mono-pitch. | m2 | 86 |
| | A0 : 19 A1 : 30 A6 : 17 AD : 21 | | |

0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:

- | | | | |
|---|--|---|----|
| 2 | Mono pitched ridge capping with 225mm lapping secured onto the roof. | m | 19 |
| | A0 : 4 A1 : 7 A6 : 4 AD : 5 | | |

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 | 86 |
| | A0 : 19 A1 : 30 A6 : 17 AD : 21 | | |

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ROOF CONSTRUCTION

Design, fabrication, supply and installation of the Roof Structure Construction. The Timber Roof Construction Sub-Contractor shall provide all materials (such as nails, ties, rafters, bracing, painting of exposed timbers, purlins, etc), equipment, labour, services and Engineer's Certificate necessary for the complete and efficient operation of the Installation, all in strict accordance to the architect's inspections and approval.

Sawn softwood:

1	38 x 152mm Wall plate. A0 : 9 A1 : 13 A6 : 7 AD : 9	m	39
2	50 x 76mm Purlins. A0 : 34 A1 : 53 A6 : 30 AD : 37	m	155
3	50 x 76mm Bracing. A0 : 8 A1 : 12 A6 : 6 AD : 8	m	34
4	38 x 152mm Rafters. A0 : 22 A1 : 31 A6 : 18 AD : 22	m	93

Sundries:

5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). A0 : 45 A1 : 45 A6 : 40 AD : 55	No	185
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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. A0 : 4 A1 : 7 A6 : 4 AD : 5	m	19
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. A0 : 9 A1 : 9 A6 : 9 AD : 9	m	36

DOORS ETC

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ABAKALI GROUP

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). A0 : 1 A1 : 0 A6 : 1 AD : 1	No	3
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). A0 : 1 A1 : 2 A6 : 0 AD : 0	No	3
10	44mm Braced and ledged door size 862 x 1000mm (D3). A0 : 0 A1 : 4 A6 : 0 AD : 0	No	4
11	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4). A0 : 0 A1 : 0 A6 : 1 AD : 2	No	3

FRAMED FRAMES, ETC

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

12	70 x 108mm rebated meranti frame . A0 : 5 A1 : 0 A6 : 9 AD : 14	m	28
----	---	---	----

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

13	70 x 108mm rebated meranti frame . A0 : 5 A1 : 16 A6 : 0 AD : 0	m	21
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	<u>BILL No. 7</u> <u>IRONMONGERY</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 01 - Staff Ablutions A1 - DWG 06 - Grade R Ablutions A6 - DWG 01 - Male Ablutions AD - DWG 01 - Female Ablutions <u>MODEL PREAMBLES</u> The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. <u>SUPPLEMENTARY PREAMBLES</u> <u>Keys/Locks</u> Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys <u>Trade Names</u> Where trade names are specified other ironmongery approved by the Principal Agent may be used <u>Fixing</u> Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
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HINGES:

1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	12.0
	A0 : 2.0 A1 : 5.0 A6 : 2.0 AD : 3.0		

LOCKS

2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	7
	A0 : 2 A1 : 3 A6 : 1 AD : 1		
3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	5
	A0 : 0 A1 : 2 A6 : 1 AD : 2		
4	E1511 Erebus H/D Adjustable roller catch - SC	No	3
	A0 : 0 A1 : 3 A6 : 0 AD : 0		

HANDLES

5	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	10
	A0 : 2 A1 : 3 A6 : 2 AD : 3		
6	Pull handle D 152 x 19mm straight BT	No	3
	A0 : 0 A1 : 3 A6 : 0 AD : 0		

"Union" or equally approved

7	CZ682-24SC Radius lever furniture	Sets	7.0
	A0 : 3.0 A1 : 2.0 A6 : 1.0 AD : 1.0		

Sundries:

8	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	3
	A0 : 0 A1 : 0 A6 : 1 AD : 2		
9	38mm Diameter black rubber door stop plugged and screwed to wall.	No	12
	A0 : 2 A1 : 5 A6 : 2 AD : 3		

SIGN PLATES:

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Ironmongery
ABAKALI GROUP

<u>All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.</u>							
10	Sign plate plugged and screwed to walls with chromium plated dome headed screws. A0 : 2 A1 : 1 A6 : 1 AD : 1	No	5				
<u>SUNDRIES</u>							
<u>Halcast or equal approved"</u>							
11	Thiefproof toilet roll holder plugged. A0 : 2 A1 : 3 A6 : 1 AD : 2	No	8				
<u>Grade 304 stainless steel ware:</u>							
12	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. A0 : 1 A1 : 3 A6 : 0 AD : 0	No	4				
13	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. A0 : 1 A1 : 3 A6 : 0 AD : 0	No	4				
<u>Satin Grey Plastics or equal approved</u>							
14	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose. A0 : 2 A1 : 3 A6 : 0 AD : 2	No	7				
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Ironmongery

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Bill No. 7

Ironmongery

ABAKALI GROUP

<u>Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:</u>				
1	Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01. A0 : 2 A1 : 7 A6 : 4 AD : 5	No	18	
<u>HOT DIP GALVANIZED STEEL GATES</u>				
<u>Note: The contractor is to check on site measurements before placing of order.</u>				
<u>Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:</u>				
2	Security gate size 900 x 2050mm high (G1). A0 : 2 A1 : 1 A6 : 1 AD : 1	No	5	
3	Security double gate size 1800 x 2050mm high. A0 : 1 A1 : 0 A6 : 0 AD : 0	No	1	
<u>LOCKABLE MANHOLE COVERS</u>				
4	600mm diameter lockable circular type M4A product or similar approved manhole SANS 1882 medium duty Dough Moulding compound 4A hinged lid and frame cast into concrete upstand. A0 : 1 A1 : 1 A6 : 1 AD : 1	No	4	

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Metalwork
ABAKALI GROUP

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Metalwork

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Metalwork

ABAKALI GROUP

Item No		Quantity	Rate	Amount
	<u>BILL No. 9</u>			
	<u>PLASTERING</u>			
	<u>Quantity Split:</u>			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A0 - DWG 01 - Staff Ablutions			
	A1 - DWG 06 - Grade R Ablutions			
	A6 - DWG 01 - Male Ablutions			
	AD - DWG 01 - Female Ablutions			
	<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>EPOXY</u>			
	<u>2-Part Epoxy primer Sikafloor 161 with grey colour</u>			
	<u>2-Part Epoxy roller and seal coat. Sikafloor 264 over as per manufacturer's specification.</u>			
1	On floors and landings. A0 : 42 A1 : 52 A6 : 39 AD : 51	m2	183	
2	Skirtings 75mm high. A0 : 68 A1 : 78 A6 : 64 AD : 70	m	280	
	<u>SCREEDS</u>			
	<u>Untinted granolithic, on concrete:</u>			
3	30mm Thick on floors and landings. A0 : 42 A1 : 52 A6 : 39 AD : 51	m2	183	
	<u>Skirtings</u>			
4	75mm High coved granolithic skirting. A0 : 68 A1 : 78 A6 : 64 AD : 70	m	280	
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	Plastering			
	ABAKALI GROUP			
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INTERNAL PLASTER (PIT WALLS)

15mm thick of 1:4 sand cement plaster with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in plaster mix

5	On walls.	m2	92
	A0 : 23 A1 : 26 A6 : 21 AD : 21		

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Plastering

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Bill No. 9

Plastering

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Item No		Quantity	Rate	Amount
	<u>BILL No. 10</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>(PROVISIONAL)</u>			
	<u>Quantity Split:</u>			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A0 - DWG 01 - Staff Ablutions			
	A1 - DWG 06 - Grade R Ablutions			
	A6 - DWG 01 - Male Ablutions			
	AD - DWG 01 - Female Ablutions			
	<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>RAINWATER DISPOSAL:</u>			
	<u>Watertite or equal approved Aluminium Gutters and Downpipes:</u>			
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres. A0 : 4 A1 : 7 A6 : 4 AD : 5	m	19	
2	Extra over eaves gutter for stopped end. A0 : 2 A1 : 2 A6 : 2 AD : 2	No	8	
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe. A0 : 2 A1 : 2 A6 : 2 AD : 2	No	8	
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured). A0 : 4 A1 : 4 A6 : 4 AD : 4	m	16	
5	Extra over rainwater downpipe for bends. A0 : 4 A1 : 4 A6 : 4 AD : 4	No	16	
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	Plumbing and Drainage (Provisional)			
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TAPS, VALVES, ETC

Solid Cast brass taps, valves, etc:

6	Plumline Hydrus code: 031465, 15mm pillar tap, brushed chrome. 1/2" male inlet, back nut, washer, and streamline outlet. Excellent water-saving product.	No	14
	A0 : 4 A1 : 4 A6 : 2 AD : 4		
7	Plumline Clinix code: 035566, 15mm pillar tap, brushed chrome. 1/2" male inlet, back nut, washer, and streamline outlet. Excellent water-saving product for disable ablutions	No	2
	A0 : 1 A1 : 1 A6 : 0 AD : 0		
8	15mm Ball-o-stop valve.	No	8
	A0 : 2 A1 : 3 A6 : 1 AD : 2		
9	22mm Non Return valve.	No	16
	A0 : 2 A1 : 4 A6 : 4 AD : 6		

WASTE UNIONS ETC

Outlets, traps, etc:

10	40mm 342/50 CP bottle trap.	No	1
	A0 : 0 A1 : 1 A6 : 0 AD : 0		
11	40mm Code 316 chrome plated unslopped waste outlet.	No	7
	A0 : 2 A1 : 2 A6 : 1 AD : 2		
12	40mm Rubber "P" or "S" trap	No	7
	A0 : 2 A1 : 2 A6 : 1 AD : 2		

SANITARY FITTINGS

Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:

13	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3
	A0 : 2 A1 : 1 A6 : 0 AD : 0		
14	VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3
	A0 : 0 A1 : 0 A6 : 1 AD : 2		

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15	Bambi Longdrop VIP Pit pedestal for children complete with C/W flap. size: 282 x 360 x 300mm. A0 : 0 A1 : 2 A6 : 0 AD : 0 <u>Vaal or equal approved:</u>	No	2
16	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] with approx. 1m High fixed with chemical anchors A0 : 0 A1 : 1 A6 : 0 AD : 0	No	1
17	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. A0 : 2 A1 : 2 A6 : 1 AD : 2 <u>SANITARY PLUMBING</u> <u>PVC waste or vent pipes and fittings:</u>	No	7
18	50mm Waste pipe. A0 : 25 A1 : 35 A6 : 25 AD : 40	m	125
19	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. A0 : 8 A1 : 12 A6 : 10 AD : 15	m	45
20	110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres. A0 : 24 A1 : 16 A6 : 8 AD : 24 <u>uPVC gulleys</u>	m	72
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. A0 : 1 A1 : 1 A6 : 1 AD : 1	No	4

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Plumbing and Drainage (Provisional)
ABAKALI GROUP

Extra for:

22	50mm Bend. A0 : 8 A1 : 9 A6 : 8 AD : 12	No	37
23	50mm Access bend. A0 : 3 A1 : 3 A6 : 3 AD : 7	No	16
24	Black Whirlybird with insect-proof netting inside, to fit on 110mm vent pipe. A0 : 6 A1 : 4 A6 : 2 AD : 6	No	18

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. A0 : 22 A1 : 35 A6 : 32 AD : 28	m	117
26	22mm Pipe chased into brick walls. A0 : 11 A1 : 13 A6 : 15 AD : 11	m	50

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Plumbing and Drainage (Provisional)
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Extra over polycop pipes for compression fittings:

27	15mm Fittings.	No	86
	A0 : 17 A1 : 24 A6 : 26 AD : 19		
28	22mm Fittings.	No	53
	A0 : 10 A1 : 15 A6 : 18 AD : 10		

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80

81

82

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Section 3

Bill No. 10

Plumbing and Drainage (Provisional)

ABAKALI GROUP

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u> <u>GLAZING</u> <u>Quantity Split:</u> Note that the total quantity per each item is split into the various buildings and appears below each description as follows: A0 - DWG 01 - Staff Ablutions A1 - DWG 06 - Grade R Ablutions A6 - DWG 01 - Male Ablutions AD - DWG 01 - Female Ablutions <u>MODEL PREAMBLES</u> Tenderers are referred to the relevant Clauses in the General Model Preambles for Trades (2017 Edition) before pricing this bill. NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.150 for CPAP purposes			
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> <u>"Franke" or equally approved</u>			
1	Mirror size 450 x 600 x 8mm Thick stainless steel mirror fixed with double sided tape and plugged / screwed to walls with mirror chrome domed screws, complete	No	7	
	Carried Forward to Summary of Section No. 3 Section 3 Bill No. 11 Glazing ABAKALI GROUP			R

R

PAINTWORK ETC TO NEW WORK

ON WOOD

Prepare and apply "Rystix timbacare" Ultra long-life, deep penetrating, UV resistant, weatherproof sealer, solvent based or equal approved varnish paint to wood surface: Three coats superior quality timber coating, colour: Mahogany

1	On doors	m2	41
	A0 : 8 A1 : 16 A6 : 7 AD : 10		
2	On door frames	m2	11
	A0 : 2 A1 : 4 A6 : 2 AD : 3		

Prepare and apply two coats carbolenium on:

3	On exposed timbers.	m2	19
	A0 : 4 A1 : 6 A6 : 4 AD : 5		

ON FIBRE-CEMENT

Prepare and apply two coats pure acrylic roof paint on:

4	On fascias and barge boards.	m2	13
	A0 : 3 A1 : 4 A6 : 3 AD : 3		

ON PVC VENT PIPE

Prepare and apply two coats black PVA paint:

5	Vent Pipes	m2	68
	A0 : 23 A1 : 15 A6 : 8 AD : 23		

Carried to Collection

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Section 3
Bill No. 12
Paintwork
ABAKALI GROUP

Section 3

Bill No. 12

Paintwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

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Amount

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Section 3

Bill No. 12

Paintwork

ABAKALI GROUP

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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, scuffling up as required and cart away all vegetation and debris.	m2	700
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	700
<u>Open face excavation in earth over sloping site</u>			
3	Excavate to reduce levels (Cut) and compact to 93% mod AASHTO density at optimum moisture content.	m3	350
<u>Extra over bulk excavation in earth for excavation in</u>			
4	Extra for excavation in soft material (LI)	m3	18
5	Extra for excavation in hard material (LI)	m3	35
<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 (LI)	m3	350
Carried to Collection			R
Section 4 Bill No. 1 External Works ABAKALI GROUP			

	<u>Earth filling from excavated material</u>		
7	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	100
	<u>Filling supplied by the contractor to form platforms</u>		
8	Over site of Selected Sub grade 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>Surface Preparation:</u>		
9	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	350
	<u>Prescribed density tests on filling:</u>		
10	Modified AASHTO Density test.	No	6
	<u>WATER RETICULATION</u>		
	<u>WATER SUPPLY IN GROUND</u>		
	<u>HDPE 100PN 12.5 pressure pipes:</u>		
11	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	60
12	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	50
	<u>Extra over (PN12.5) HDPE piping for fittings:</u>		
13	32mm Bend.	No	20
14	32mm Adaptor.	No	15

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15	40mm Bend.	No	25
16	32mm Tee.	No	20
17	40mm Tee.	No	15

THE FOLLOWING IN WALKWAYS

Excavation not exceeding 2m deep

18	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	175
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Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):

19	Off site to a dumping site to be found by the Contractor.	m3	175
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Filling supplied by the contractor under walkways

20	G7 Base course material compacted to 98% Mod AASHTO density	m3	60
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21	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	60
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Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:

22	Under floors,etc.	m2	98
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Prescribed density tests on filling:

23	In-situ dry density test.	No	5
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Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:

24	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	98
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Concrete Paving Blocks

Carried to Collection

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External Works
ABAKALI GROUP

	<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>		
25	Paving to walkway areas, etc laid to falls.	m2	98
26	Extra over ordinary paving for 200mm wide block-on-flat header course edging on 100mm thick mortar bed including unreinforced concrete haunching along outside edge.	m	65
27	Ditto but circular on plan.	m	50
	<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>		
28	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	65
29	Ditto but circular on plan.	m	7
	<u>THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)</u>		
	<u>Excavation in earth not exceeding 2m deep:</u>		
30	Trenches.	m3	40
	<u>Extra over all excavations for carting away:</u>		
31	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	21
	<u>Risk of collapse of excavations:</u>		
32	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	105

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	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
33	Backfilling to trenches, holes, etc.	m3	20	
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>			
34	Under footings.	m3	10	
35	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	10	
	<u>Compaction of surfaces</u>			
36	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	55	
	<u>25 Mpa/19mm Concrete</u>			
37	Strip footings.	m3	12	
	<u>Test blocks:</u>			
38	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	8	
	<u>Reinforcement (Provisional)</u>			
39	High tensile steel reinforcement bars to structural concrete work.	t	1.22	
	<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>			
40	One brick walls.	m2	40	

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BRICKWORK IN SUPERSTRUCTURE

Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):

41	One brick walls.	m2	63	
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Brickwork reinforcement:

42	230mm Wide reinforcement built in horizontally.	m	202	
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43	Ditto but in foundations.	m	76	
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FACE BRICK

"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):

44	One brickwall faced on both sides.	m2	40	
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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:

45	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	75	
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THE FOLLOWING IN DISABLED ACCESS

SCREEN WALL

Excavation in earth not exceeding 2m deep:

46	Trenches.	m3	7	
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Extra over all excavations for carting away:

47	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	7	
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Carried to Collection

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	<u>Risk of collapse of excavations:</u>				
48	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	17		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
49	Backfilling to trenches, holes, etc.	m3	6		
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
50	Under footings.	m3	2		
51	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	2		
	<u>Compaction of surfaces</u>				
52	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>25 Mpa/19mm Concrete</u>				
53	Strip footings.	m3	2		
	<u>Test blocks:</u>				
54	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	8		
	<u>Reinforcement (Provisional)</u>				
55	High tensile steel reinforcement bars to structural concrete work.	t	0.19		
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	<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>			
56	One brick walls.	m2	6	
	<u>Brickwork reinforcement:</u>			
57	230mm Wide reinforcement built in horizontally.	m	22	
58	Ditto but in foundations.	m	43	
	<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>			
59	One brick walls.	m2	10	
	<u>Brickwork reinforcement:</u>			
60	230mm Wide reinforcement built in horizontally.	m	30	
61	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>			
62	One brickwall faced on both sides.	m2	7	
	<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>			
63	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	12	
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<u>ACCESS RAMPS</u>				
<u>Excavation not exceeding 2m deep</u>				
64	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	7	
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
65	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>				
66	G7 Base course material compacted to 98% Mod AASHTO density	m3	4	
67	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	4	
<u>Coarse river sand filling supplied by the contractor:</u>				
68	Under floors etc.	m3	2	
<u>Compaction of surfaces:</u>				
69	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	12	
<u>Prescribed density tests on filling:</u>				
70	In-situ dry density test.	No	4	
<u>Reinforced 25Mpa/19mm Concrete:</u>				
71	Ramps, Landings, etc.	m3	12	
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
72	Surface beds, slabs, etc to falls and currents.	m2	12	
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	<u>Test blocks:</u>		
73	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	8
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>		
74	12mm Joints not exceeding 300mm high.	m	12
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
75	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	12
	<u>Fabric reinforcement:</u>		
76	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	12
	<u>Waterproofing under Surface beds</u>		
77	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	12
	<u>THE FOLLOWING IN ACCESS DRIVEWAY, ETC.</u>		
	<u>Excavation not exceeding 2m deep</u>		
78	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	190
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
79	Off site to a dumping site to be found by the Contractor.	m3	190
	<u>Filling supplied by the contractor under driveways</u>		
80	G7 Base course material compacted to 98% Mod AASHTO density	m3	65

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ABAKALI GROUP

81	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. <u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>	m3	65	
82	Under floors,etc. <u>Prescribed density tests on filling:</u>	m2	416	
83	In-situ dry density test. <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>	No	5	
84	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved. <u>150-175mm diameter bollards</u>	m2	416	
85	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc. <u>THE FOLLOWING IN RETAINING WALLS, ETC.</u> <u>Excavation in earth not exceeding 2m deep</u>	No	26	
86	Trenches. <u>Risk of collapse of excavations:</u>	m3	16	
87	Sides of trench and hole excavations not exceeding 1,5m deep. <u>Keeping excavations free of water:</u>	m2	45	
88	Keeping excavations free of all water other than subterranean water.		Item	
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	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
89	Off site to a dumping site to be found by the Contractor.	m3	16
	<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>		
90	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	6
	<u>Compaction of surfaces</u>		
91	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	16
	<u>15Mpa/19mm Concrete</u>		
92	Surface blinding under footings and bases	m3	2
	<u>30Mpa/19mm Concrete</u>		
93	Strip footings.	m3	5
94	Cavity walls.	m3	3
	<u>Test blocks:</u>		
95	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5
	<u>Fabric reinforcement:</u>		
96	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	25
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	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>		
97	330mm thick cavity brick Walls made of two leafs of 110mm wall with 110mm mesh reinforced concrete fill (concrete and reinforcement elsewhere measured).	m2	15
	<u>Brickwork reinforcement:</u>		
98	230mm Wide reinforcement built in horizontally.	m	86
	<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>		
99	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>		
100	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	25
	<u>Openings in Walls etc.</u>		
101	Leave or form 32mm weephole through one brick wall	No	32
	<u>Membranes</u>		
102	"Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	4
	<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>		
103	19mm Stone.	m3	4

THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.

STORMWATER APRONS

Carried to Collection

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Section 4
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External Works
ABAKALI GROUP

	<u>Excavation not exceeding 2m deep</u>				
104	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	20		
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
105	Off site to a dumping site to be found by the Contractor.	m3	20		
	<u>Filling supplied by the contractor under floors, aprons, etc</u>				
106	G7 Base course material compacted to 98% Mod AASHTO density	m3	6		
107	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	6		
	<u>Coarse river sand filling supplied by the contractor:</u>				
108	Under floors etc.	m3	8		
	<u>Compaction of surfaces:</u>				
109	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	32		
	<u>Prescribed density tests on filling:</u>				
110	In-situ dry density test.	No	5		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
111	Surface beds cast in panels on waterproofing.	m3	5		
112	Edge thickening	m3	3		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
113	Surface beds, slabs, etc to falls and currents.	m2	30		
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	<u>Test blocks:</u>		
114	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	8
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>		
115	12mm Joints not exceeding 300mm high.	m	20
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
116	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	20
	<u>Fabric reinforcement:</u>		
117	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	30
	<u>Waterproofing under Surface beds</u>		
118	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	40
	<u>STORMWATER CHANNELS</u>		
	<u>Excavation not exceeding 2m deep</u>		
119	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	80
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
120	Off site to a dumping site to be found by the Contractor.	m3	80
	<u>Filling supplied by the contractor under channels</u>		
121	G7 Base course material compacted to 98% Mod AASHTO density	m3	30

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122	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>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>		
123	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	240
124	Extra for 700mm angle	No	4
125	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	4
	<u>Sundries:</u>		
126	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	30
127	Construct shaped earth V-drain 2m wide with grass runners	m	30
	<u>THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.</u>		
	<u>Excavation not exceeding 2m deep</u>		
128	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	60

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	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
129	Off site to a dumping site to be found by the Contractor.	m3	60		
	<u>Filling supplied by the contractor under floors, aprons, channels etc</u>				
130	G7 Base course material compacted to 98% Mod AASHTO density	m3	20		
131	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	20		
	<u>Coarse river sand filling supplied by the contractor:</u>				
132	Under floors etc.	m3	8		
	<u>Compaction of surfaces:</u>				
133	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	125		
	<u>Prescribed density tests on filling:</u>				
134	In-situ dry density test.	No	5		
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
135	Surface beds cast in panels on waterproofing.	m3	20		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
136	Surface beds, slabs, etc to falls and currents.	m2	125		
	<u>Test blocks:</u>				
137	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	8		
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	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>			
138	12mm Joints not exceeding 300mm high.	m	65	
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
139	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	65	
	<u>Fabric reinforcement:</u>			
140	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	125	
	<u>THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.</u>			
	<u>Site Clearance, ETC</u>			
141	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	65	
	<u>Excavation in earth not exceeding 2m deep:</u>			
142	Trenches.	m3	12	
	<u>Extra over all excavations for carting away:</u>			
143	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	12	
	<u>Risk of collapse of excavations:</u>			
144	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	40	
145	Ditto, but from ground level to exceeding 1,5m.	m2	32	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>			
146	Backfilling to trenches, holes, etc.	m3	6	

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	<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>		
147	19mm Stone.	m3	4
	<u>Membrane</u>		
148	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	40
	<u>Keeping excavations free of water:</u>		
149	Keeping excavations free from mud and all water including subterranean sources.		Item
	<u>Compaction of surfaces</u>		
150	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	20
	<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>		
151	110mm uPVC pipe.	m	35
	<u>Extra for:</u>		
152	110mm Tee.	No	5
153	110mm Y junction.	No	3
	<u>RENO MATRESS STRUCTURES</u>		
	<u>Excavation in earth not exceeding 2m deep</u>		
154	Reduced levels (LI)	m3	108

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	<u>Extra over trench and hole excavations in earth for excavation in</u>		
155	Soft rock (LI)	m3	11
156	Hard rock	m3	5
	<u>Extra over all excavations for carting away</u>		
157	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor (LI)	m3	108
	<u>Risk of collapse of excavations</u>		
158	Sides of trench and hole excavations not exceeding 1.5m deep (LI)	m2	480
	<u>Keeping excavations free of water</u>		
159	Allow for keeping excavations free of water by hand or machinery		Item
	<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 (LI)	m3	61
	<u>G7 Material compacted to 97 % Mod. AASHTO density</u>		
161	Under strip footings (LI)	m3	61
	<u>Compaction of surfaces</u>		
162	Compaction of ground surfaces 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 (LI)	m2	360
	<u>Prescribed density tests on filling</u>		
163	"Modified AASHTO Density" test	No	20
	<u>Soil insecticide</u>		
164	To bottoms and sides of foundations (LI)	m2	360

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	<u>Subsoil Drainage</u>				
165	19mm Crushed stone encasing to pipes.	m3	108		
	<u>Geotextile system installed as per engineers instruction</u>				
166	"Mactex N42.2" Geofabric filter blanket wrapped around stone encasing with 300mm side and 300mm end laps including stitching	m2	72		
	<u>Reno mattress of galvanised wire boxes laced together and filled with broken stone</u>				
167	2 x 1 x 0.3m Reno mattress units properly bonded and to be constructed as per engineer's drawings and specifications	m3	108		
	<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	10		
	<u>Excavation in earth not exceeding 2m deep:</u>				
169	Holes	m3	6		
	<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	6		
	<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	18		
	<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	4		
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	<u>Earth filling with stone material supplied by the contractor:</u>				
173	Stone (>53mm).	m2	4		
	<u>Membranes</u>				
174	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	6		
	<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	12		
	<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	7		
	<u>THE FOLLOWING IN HEADWALLS</u>				
178	Excavation not exceeding 2m deep.	m3	4		
179	Risk of collapse not exceeding 1,5m deep	m2	2		
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180	Keeping excavations free from water		Item
181	Carting away surplus excavated material	m3	2
182	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	2
183	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	2
184	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	2
185	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	22
186	Weld Mesh Ref 193 in Concrete bottom slab.	m2	9
187	One brick wall of 14 MPa NFX bricks.	m2	6
188	230mm Wide reinforcement built in horizontally.	m	19
189	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	8
190	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	8
191	Plaster on brick walls.	m2	6
192	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>			
193	Trenches.	m3	25
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	<u>Extra over all excavations for carting away:</u>				
194	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	25		
	<u>Risk of collapse of excavations:</u>				
195	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	9		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
196	Backfilling to trenches, holes, etc.	m3	9		
	<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u>				
197	Under footings.	m3	9		
198	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	9		
	<u>Compaction of surfaces</u>				
199	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	25		
	<u>25 Mpa/19mm Concrete</u>				
200	Strip footings.	m3	9		
	<u>25 MPa/19mm Concrete:</u>				
201	Tank concrete slab.	m3	9		
	<u>Test blocks:</u>				
202	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	9		
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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>		
203	Surface beds, slabs, etc.	m2	22
	<u>Rough Formwork to Sides:</u>		
204	Edges, risers, ends and reveals not exceeding 300mm high.	m	43
	<u>Allens Meshco Square Mesh Fabric reinforcement:</u>		
205	Type 617 fabric reinforcement in concrete slabs.	m2	23
	<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>		
206	One brick walls.	m2	26
	<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>		
207	One brick walls.	m2	30
	<u>Brickwork reinforcement:</u>		
208	230mm Wide reinforcement built in horizontally.	m	116
209	Ditto but in foundations.	m	126
	<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>		
210	Extra over brickwork for face brickwork externally.	m2	26

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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>			
211	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	43	
	<u>Plastic water tanks etc:</u>			
212	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	4	
213	Hole top of tank for 100mm pipe.	No	4	
	<u>THE FOLLOWING IN SECURITY FENCING, ETC</u>			
	<u>Site clearance</u>			
214	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	240	
	<u>Straining wires, fencing and razor wire:</u>			
215	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	73	
216	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	73	
217	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	73	
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	<u>Posts for 1 800mm high security fence:</u>			
218	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	36	
219	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	10	
220	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	4	
221	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	8	
222	Form 12mm diameter hole through fence post.	No	10	
	<u>Gates:</u>			
223	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	
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224	<u>PADLOCKS</u> Supply 50 mm "Vitro" Padlocks and Keys (or equal approved)	No	2	
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Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
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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>PROVISIONAL AMOUNTS FOR NOMINATED / SELECTED SUB-CONTRACTS</u>			
	<u>Electrical Installation:</u>			
1	Provide the amount of R150 000.00 (One Hundred and Fifty Thousand Rand) for Electrical Installation, to be executed complete.	Item		
2	Profit	%		
3	Allow for general attendance.	%		
	<u>Temporary ablutions:</u>			
4	Provide the amount of R150 000.00 (One Hundred Thousand Rand) for temporary ablutions, to be executed complete.	Item		
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