### **BILLS OF QUANTITIES**

### **FOR**

# WONGALETHU PRIMARY SCHOOL - SANITATION APPROPRIATE FOR EDUCATION (SAFE) PROGRAMME - AMATHOLE DISTRICT

#### **FOR**

## The Mvula Trust

#### **ARCHITECTS**

STERMOUNT PROJECTS 9 Mary Crescent Amalinda East London

5247

Tel. +27 83 444 2102 Fax: +27 86 606 2950 e Mail: linda@stermount.co.za

# **Principal Agent**

Qapela Quantity Surveyors (Pty) Ltd

Tel. +27 43 721 1470 Fax: +27 86 762 3114 e Mail: zet@qapelaqs.co.za

### **QUANTITY SURVEYORS**

Qapela Quantity Surveyors (Pty) Ltd Quantity Surveyors 16 Jarvis Road Berea East London 5201

Tel. +27 43 721 1470 Fax: +27 86 762 3114 e Mail: zet@qapelaqs.co.za

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# SECTION NO. 1 PRELIMINARIES

Amount **SECTION NO. 1 PRELIMINARIES** BILL NO. 1 **PRELIMINARIES PRELIMINARIES** 1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry. 2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein. 3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only. 4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof. 5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles. 6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained. 7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended. 8. Where any item is not relevant to this specific contract, such item is marked N/A. 9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time. Carried to Collection R Section No. 1 Bill No. 1 **Preliminaries** 

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			Amount
	SECTION A: PRINCIPAL BUILDING AGREEMENT		
	<u>DEFINITIONS</u>		
	Definitions and interpretation (Clause 1).		
1	F: V: T:	Item	
	F: V: T:		
	OBJECTIVE AND PREPARATION		
	Offer, acceptance and performance (Clause 2).		
2	F: V: T:	Item	
	F: V: T:		
	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	
	F: V: T: T: Design responsibility (Clause 4).		
4	F: V: T:	Item	
	F: V: T:	110111	
5	F: V: T:	Item	
	F: V: T:		
	Site representative (Clause 6).		
6	F: V: T:	Item	
	F: V: T:		
	Compliance with regulations (Clause 7).		
7	F: V: T:	Item	
	F: V: T:		
	Works risk (Clause 8)		
8	F: V: T:	Item	
	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'.		
	Carried to Collection	R	
	Section No. 1	. `	
	Bill No. 1		
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	3		

			Amount	
9	F: V: T:	Item		
	F:			
40	Works insurances (Clause 10).  F: T:	14		
10		Item		
	F: V: T: T: Liability insurances (Clause 11).			
11	F: V: T:	Item		
	F: V: T:			
	Effecting insurances (Clause 12).			
12	F: V: T:	Item		
	F: V: T:			
	State Provisions (Clause 13).			
13	F: V: T:	Item		
	F: V: T:			
	Security (Clause 14).			
14	F: V: T:	Item		
	F: V: T:			
	EXECUTION  Description (Classes 45)			
	Preparation for and execution of the works (Clause 15).			
15	F: V: T:	Item		
	F: V: T: Access to the works (Clause 16).			
16	F: V: T:	ltom		
10	F: V: T: T:	Item		
	Contract instructions (Clause 17).			
17	F: V: T:	Item		
	F: V: T:	ito		
	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 of the works, the contractor shall not be hable for such incorrect setting out.			
18	F: V: T:	Item		
	F: V: T:			
	Assignment (Clause 19).			
19	F: V: T:	Item		
	F: V: T:			
	Carried to Collection	R		
	Section No. 1 Bill No. 1			
	Preliminaries			
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			Amount	
	Nominated subcontractors (Clause 20).			
20	F: V: T:	Item		
	F: V: T:			
	Selected subcontractors (Clause 21).			
21	F: V: T:	Item		
	F: V: T:			
	Employer's Direct contractors (Clause 22).			
22	F: V: T:	Item		
	F: V: T:			
	Contractor's Domestic subcontractors (Clause 23).			
23	F: V: T:	Item		
	F: V: T:			
	COMPLETION			
	Practical completion (Clause 24).			
24	F: V: T:	Item		
	F: V: T:			
25	F: V: T:	Itam		
25	F: V: T: T:	Item		
	Final completion (Clause 26).			
	Latent defects liability period (Clause 27).			
	Clause 27.0 is amended by the addition of the following clauses:			
	27.3 Any water leakage into the building, whether in the roof, external wall or			
	other element of the building susceptible to water leakage shall, unless			
	proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and			
	Interpretations.			
	27.4 The Contractor shall attend to defects during the Defects Liability Period			
	on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the			
	amount of defects accummulates in order to attend to a comprehensive list of			
	defects			
26	F: V: T:	Item		
	F: V: T: Sectional completion (Clause 28).			
27	F: V: T:	Item		
	F: V: T:	item		
	Revision of date for practical completion (Clause 29).			
28	F: V: T:	Item		
	F: V: T:			
	Carried to Collection	R		
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			Amount	
	Penalty for non-completion (Clause 30).			
29	F: V: T:	Item		
	F: V: T:	1.0111		
	PAYMENT			
	Interim payment to the contractor (Clause 31).			
	The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.			
	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		
	F: V: T: Recovery of expense and loss (Clause 33).			
31	F: V: T:	Item		
•	F: V: T:	itom		
	Final account and final payment (Clause 34).			
32	F: V: T:	Item		
	F: V: T:			
	Payment to other parties (Clause 35).			
33	F: V: T:	Item		
	F: V: T:			
	CANCELLATION			
	Cancellation by Employer - Contractor's default (Clause 36).			
34	F: V: T:	Item		
	F: V: T:			
	Cancellation by Employer - Loss and damage (Clause 37).			
35	F: V: T:	Item		
	F: V: T:			
36	F: V: T:	Item		
	F: V: T:			
	Cancellation - Cessation of the works (Clause 39).			
	Carried to Collection	R		
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37	F: V: T:	Item		
	F: V: T:			
	DISPUTE			
	Dispute Settlement (Clause 40)			
38	F: V: T:	Item		
	F:			
	SUBSTITUTE PROVISIONS State Clauses (Clause 44)			
20	State Clauses (Clause 41) F: V: T:	14		
39	F:	Item		
	CONTRACT VARIABLES			
	The Schedule: Pre-Tender information (Clause 42).			
40	F: V: T:	Item		
70	F: V: T:	item		
	CONTRACTING AND OTHER PARTIES (Clause 42.1)			
	Employer: The Mvula Trust			
	Postal Address: 67 Devereux Avenue, Vincent, East London			
	Telephone: 043 726 2255			
	Facsimile: 043 726 5967			
	Physical address: 67 Devereux Avenue, Vincent, East London			
	Principal Agent: The Mvula Trust			
	Postal Address: 67 Devereux Avenue, Vincent, East London			
	Telephone: 043 726 2255			
	Facsimile: 043 726 5967			
	Physical address: 67 Devereux Avenue, Vincent, East London			
	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.			
	Carried to Collection	R		
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	Bill No. 1			
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	Amount
Arbitration rules as recommended by the Association of Arbitrators (SA):-	
N/A	
Clause 42.2.5	
Date on which possession of the site is intended to be given on :-	
To be advised.	
Clause 42.2.6	
Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.	
Completion in Sections are required : NO	
Clause 42.2.7	
Intended date of practical completion and the penalty per calendar day for the works as a whole :-	
To be advised.	
Penalty amount will be R2000 per calendar day, to maximum 10% of Contract Value.	
Clause 42.2.8	
Intended dates of practical completion and the penalties per calendar day for the works in sections :	
N/A	
Clause 42.2.9	
The law applicable to this agreement shall be that of - Republic of South Africa.	
INSURANCES (Clause 42.3)	
Clause 42.3.1	
Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10%	
With a deductible of : Not exceeding 5% of each and every claim.	
Clause 42.3.2	
Supplementary insurance is required : Yes	
SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).	
Clause 42.3.3	
Public liability insurance to be effected by Contractor	
For the amount of: R 5million	
With a deductible of: Not exceeding 5% insured amount.	
DOCUMENTS (Clause 42.4)	
Clause 42.4.1	
Carried to Collection	R
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			Amount	
	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		
	F: V: T:			
	DOCUMENTS (B2)			
	Checking of documents (B2.1)			
	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
42	F: V: T:	Item		
	F: V: T: Provisional Bills of Quantities (B2.2) YES			
	Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
43	F: V: T:	Item		
	F: V: T:			
	Carried to Collection	R		
	Section No. 1			
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44	F: V: T:	Item		
	Interests of Agents (B2.4)			
45	F: V: T:	Item		
	F: V: T:			
46	F: V: T:	Item		
	F: V: T:			
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.			
47	F: V: T:	Item		
	F: V: T:			
	Defined works area (B3.1)			
	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
	Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.			
	The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
48	F: V: T:	Item		
	F: V: T: Geotechnical investigation (B3.2)			
	A desktop geotechnical report is available upon request.			
49	F: V: T:	Item		
	F: V: T:			
50	F: V: T:	Item		
	F: V: T:			
	Existing premises occupied (B3.4)			
51	F: V: T:	Item		
	F: V: T:			
52	F: V: T:	Item		
	F:			
	Previous work - defects (B3.6)			
	Operate day O. H. C.			
	Section No. 1	R		
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	Preliminaries			
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53	F: V: T:		Item		
	F: V: T:				
	Services - known (B3.7)				
54	F: V: T:		Item		
	F: V: T:				
	Services - unknown (B3.8)				
55	F: V: T:		Item		
	F: V: T:				
	Protection of trees (B3.9)				
56	F: V: T:		Item		
	F: V: T:				
	Articles of value (B3.10)				
57	F: V: T:		Item		
	F: V: T:				
	Inspection of adjoining properties (B3.11)				
58	F: V: T:		Item		
	F: V: T:				
	MANAGEMENT OF CONTRACT (B4)				
	Management of the Works (B4.1)				
59	F: V: T:		Item		
	F: V: T:				
	Programme for the Works (B4.2)				
60	F: V: T:		Item		
	F: V: T:				
	Progress meetings (B4.3)				
61	F: V: T:		Item		
	F: V: T:				
	Technical meetings (B4.4)				
62	F: V: T:		Item		
	F: V: T: T:				
	SAMPLES AND SHOP DRAWINGS (B5)				
	Samples of materials (B5.1)				
63	F: V: T:		Item		
	F: V: T:				
64	F: V: T:		Item		
	F: V: T:				
	Shop drawings (B5.3)				
		Carried to Collect	ion R		
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			Amount	
65	F: V: T:	Item		
	F: V: T: T:			
	TEMPORARY WORKS AND PLANT (B6)			
	Deposits and fees (B6.1)			
66	F: V: T:	Item		
	F: V: T:			
	Enclosure of the works (B6.2)			
	The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.			
67	F: V: T:	Item		
	F: V: T:			
	Advertising (B6.3)			
68	F: V: T:	Item		
	F: V: T:			
	Plant and equipment (B6.4)			
69	F: V: T:	Item		
	F: V: T:			
	Main notice board (B6.5)			
	One notice board shall be provided by the Contractor			
70	F: V: T:	Item		
	F: V: T:			
	Subcontractors notice board (B6.6) (N/A)			
71	F: V: T:	Item		
	F: V: T:			
	TEMPORARY SERVICES (B7)			
	Location (B7.1)			
72	F: V: T:	Item		
	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).			
73	F: V: T:	Item		
	F: V: T:			
	Electricity (B7.3)			
	The contractor shall provide electricity for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
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74	F: V: T:	Item		
	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).			
75	F: V: T:	Item		
	F: V: T:			
	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilties on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: V: T:	Item		
	F: V: T:			
	PRIME COST AMOUNTS (B8)			
	Responsibility for prime cost amounts (B8.1)			
77	F: V: T:	Item		
	F: V: T:			
	ATTENDANCE ON N/S SUBCONTRACTORS (B9)			
	General Attendance (B9.1)			
78	F: V: T:	Item		
	F: V: T:			
	Special Attendance (B9.2)			
79	F: V: T:	Item		
	F: V: T:			
	Commissioning - fuel, water and power (B9.3)			
80	F: V: T:	Item		
	F: V: T:			
	FINANCIAL ASPECTS (B10)			
	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).			
81	F: V: T:	Item		
	F: V: T:			
	Payment of Preliminaries (B10.2)			
82	F: V: T:	Item		
	F: V: T:			
	Adjustment of Preliminaries (B10.3)			
	Carried to Collection	R		
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83	F: V: T:	Itom		
03	F: V: T:	Item		
	Payment certificate cash flow (B10.4)			
84	F: V: T:	Item		
04	F: V: T:	пеш		
	Contractor information supply (B10.5)			
85	F: V: T:	Item		
	F: V: T:			
	GENERAL (B11)			
	Protection of the Works (B11.1)			
86	F: V: T:	Item		
00	F: V: T:	пеш		
	Protection/isolation of existing/sectionally occupied works (B11.2)			
87	F: V: T:	ltom		
01	F:	Item		
	Site security (B11.3)			
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88		Item		
	F: V: T:			
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89	F: V: T:	Item		
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90	F: V: T:	Item		
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	Works cleaning and clearing (B11.6)			
91	F: V: T:	Item		
•	F: V: T:			
	Vermin (B11.7)			
92	F: V: T:	Item		
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	Overhand work (B11.8)			
93	F: V: T:	Item		
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	C1. Proprietary branded products			
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	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.			
94	F: V: T:	Item		
	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.			
95	F: V: T:	Item		
	F: V: T:			
	C3. Contractors responsibility			
	The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.			
96	F: V: T:	Item		
	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.			
97	F: V: T:	Item		
	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.			
98	F: V: T:	Item		
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			Amount	
	C6. Construction Instructions			
	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
	a) Construction Instruction Book:			
	Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
	Only instructions issued in such book shall be recognised.			
	b) Daily Record Book:			
	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
99	F: V: T:	Item		
	F: V: T:			
	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.			
100	F: V: T:	Item		
	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.			
101	F: V: T:	Item		
	F:			
	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.			
102	F: V: T:	Item		
	F: V: T:			
	C10. Method Statement			
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	Section No. 1			
	Bill No. 1			
	Preliminaries			
	16			

			Amount
103	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.  F:	ltem	
	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.		
104	F: V: T:	Item	
	F:		
	being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.		
105		Item	
	F:		
	There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.		
106	F: V: T:	Item	
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	17		

			Amount	
	C14. Office accommodation			
	The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]			
107	F: V: T:	Item		
	The Contractor shall provide a Container for storage of materials.			
108	F: V: T:	Item		
	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.			
109	F: V: T:	Item		
	SUB - TOTAL: FIXED ITEMS			
	SUB - TOTAL: VALUE - RELATED ITEMS			
	SUB - TOTAL: TIME - RELATED ITEMS			
	BILL No.1			
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 1					
	PRELIMINARIES					
	BILL NO. 2					
	HEALTH AND SAFETY					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.					
	SUPPLEMENTARY PREAMBLES					
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.					
	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.					
	Prior to pricing the principal contractor must familiarizehim/herself with the Occupational Health and Safety ActNo. 85 Of 1993, Construction Regulations 2014, otherrelevant Regulations and Standards as well as projectspecific Health & Safety specifications.					
	The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.					
	The costs included herein must incorporate Community Liaison Officer (CLO).					
	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				
	Carried to Collection			R		
	Section No. 1 Bill No. 2 Health And Safety					
	20					

		Unit	Quantity	Rate	2022_012-TMT/V	VON
4	Principal Contractor's time related obligations in respectof the OHS Act and Construction Regulations for theentire construction period.	Item				
5	Provision of full time Health and Safety Officer for the entire construction period.	Item				
6	Induction training of personnel.	Item				
7	Provision of first aid boxes.	Item				
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min300mm deep in ground at max 3m spacing including excavation, backfilling, etc	Item				
9	Extra over mesh fence for pedestrian gate size 1.8 x1,8m high.	Item				
	Provision for Personal Protective Equipment and Protective Clothing:					
10	Reflective vests.	Item				
11	Hard hats.	Item				
12	Protective foot wear.	Item				
13	Ear Plugs.	Item				
14	Dust Masks.	Item				
	Cost of Medical Certificates and Medical Surveilance:					
15	Initial (baseline) medical examinations.	Item				
16	Exit Examinations.	Item				
	Noise Monitoring:					
17	Establishment of noise zones.	Item				
18	Audiograms.	Item				
19	C16. Covid-19 Compliance Measures:  The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed toinclude all the mandatory requirements.	Item				
	Carried to Collection			R		
	Section No. 1 Bill No. 2					
	Health And Safety					
	21					

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# SECTION NO. 2 DEMOLITIONS (PROVISIONAL)

	Unit	Quantity	Rate	Amount	
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SECTION NO. 2					
DEMOLITIONS (PROVISIONAL)					
BILL NO. 1					
DEMOLITIONS (PROVISIONAL)					
<u>DEMOLITIONS</u>					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
SUPPLEMENTARY PREAMBLES					
<u>View site</u>					
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained					
Explosives					
No explosives whatsoever may be used for demolition purposes unless otherwise stated.					
<u>General</u>					
Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.					
Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.					
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.					
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Bill No. 1					
Demolitions (provisional)					
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		Unit	Quantity	Rate	Amount	
	The following shall apply in respect of asbestos removal					
	The removal of asbestos shall be carries out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001 Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose					
	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 occuring, the Contractor will be held responsible contractually and may further be prosecuted ciminally					
	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					
	DEMOLISHING AND REMOVING					
1	Demolish VIP precast structure comprising on base slab, precast walls, corrugated roof sheeting, approximate size 6 x 3m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	3			
2	Demolish VIP precast structure comprising on base slab, precast walls, corrugated roof sheeting, approximate size 2 x 2m wide with 3,5m high top structure and 2,0m deep pit. Demolition is to only commence once the latrine has been completely emptied (elsewhere measured).	No	4			
3	Cart away rubble from demolitions and dispose off site.	Item				
4	Backfill existing hole with G7 fill material in max. 150mm layers and compact to 95% MOD AASHTO density.	m³	155			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 1 Demolitions (provisional)					
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		Unit	Quantity	Rate	Amount	
5	Allow for compaction tests by an approved laboratory					
	todetermine density of filling material.	No	28			
6	Provision of a certificate of safe disposal for asbestos.	Item				
	SUNDRIES					
	<u>Desludging</u>					
7	Clean out pit latrine by desludging including removal of all debris and waste including solid waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor					
	to price per seat	No	6			
8	Issue of Certificate of Waste Disposal.	Item				
	Carried to Collection			R		
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# SECTION NO. 3 BUILDING WORKS

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	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
BUILDING WORKS					
BILL NO. 1					
EARTHWORKS (PROVISIONAL)					
Quantity Split:					
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
A0 - DWG 40 - Learners & Staff Ablutions					
A1 - DWG 36 - Grade R Ablution					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
SUPPLEMENTARY PREAMBLES					
Proprietary products in descriptions:					
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.					
Nature of material to be excavated:					
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".					
Carting away of excavated material:					
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.					
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					
Carried to Collection			R		
Section No. 3					
Bill No. 1					
Earthworks (provisional)					
31					

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		Unit	Quantity	Rate	Amount	
	Daniel de de de la company					
	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 ouklip 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.					
	EXCAVATION OTHER THAN BULK					
	Excavation in earth not exceeding 2m deep:					
1	Trenches.	m³	8			
2	Holes.	m³	92			
3	Reduced levels under floors.	m³	32			
	Extra over trench and hole excavations in earth for excavation in:					
4	Soft rock.	m³	13			
5	Hard rock.	m³	7			
	Extra over all excavations for carting away:					
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m³	133			
	Risk of collapse of excavations:					
7	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	29			
8	Ditto, but from ground level to exceeding 1,5m.	m²	89			
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	Bill No. 1					
	Earthworks (provisional)					
	32					

		Unit	Quantity	Rate	Amount	
	Keeping excavations free of water:					
9	Keeping excavations free from mud and all water including subterranean sources.	Item				
	EARTH FILLING, ETC.					
	Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:					
10	Backfilling to trenches, holes, etc.	m³	2			
11	Under floors, steps, pavings, trenches, etc.	m³	8			
	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.					
12	Under floors, steps, pavings, trenches, etc.	m³	20			
	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.					
13	Under floors, steps, pavings, trenches, etc.	m³	14			
14	Backfilling to holes, trenches, etc.	m³	6			
	Coarse river sand filling supplied by the contractor:					
15	Under floors etc.	m³	5			
	Compaction of surfaces:					
16	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m²	94			
	Prescribed density tests on filling:					
17	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	16			
	SOIL POISONING					
	Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:					
18	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m²	58			
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	Earthworks (provisional)					
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		Unit	Quantity	Rate	Amount	
9	To bottoms and sides of trenches, holes, etc.	m²	125			
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	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
BUILDING WORKS					
BILL NO. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					
Quantity Split:					
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
A0 - DWG 40 - Learners & Staff Ablutions					
A1 - DWG 36 - Grade R Ablution					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
SUPPLEMENTARY PREAMBLES					
Proprietary products in descriptions:					
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.					
Cost of tests:					
The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).					
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.					
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Bill No. 2					
Concrete, Formwork And Reinforcement					
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		Unit	Quantity	Rate	Amount	
	Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.					
	Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.					
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	15Mpa/19mm Concrete					
1	Surface blinding under footings and bases.	m³	3			
'		111	3			
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	30MPa/20mm concrete:					
2	Raft slab on waterproofing.	m³	18			
3	Ground base slab	m³	7			
	REINFORCED CONCRETE					
	30MPa/20mm concrete:					
4	Suspended Slabs.	m³	7			
5	Cavity walls.	m³	10			
	TEST BLOCKS					
	Test blocks:					
6	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	12			
	FINISHING TOP SURFACE OF CONCRETE					
	Finishing top surfaces of concrete smooth with a					
_	wood float:	ma 2	04			
7	Surface beds, suspended slabs, ground slabs, etc.	m²	94			
	Finishing top surfaces of concrete smooth with a steel float:					
8	Surface beds, suspended slabs, etc.	m²	16			
	Charmfers at corners					
9	19 x 19mm triangular fillet at corners formed of unreinforced concrete steel trowelled.	m	33			
	Carried to Collection			R		
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		Unit	Quantity	Rate	Amount	
	ROUGH FORMWORK (DEGREE OF ACCURACY III)					
	Rough Formwork to Sides:					
10	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	35			
	Permanent Formwork:					
11	Soffit of slab over pit.	m²	31			
	Extra on permanent formwork for boxing or blocking in or boxing out to form:					
12	835mm diameter circular opening through 370mm thick slab.	No	2			
13	450mm Diameter opening through 255mm thick slab.	No	2			
14	200mm Diameter opening through 255mm thick slab.	No	3			
15	150mm Diameter opening through 255mm thick slab.	No	2			
16	110mm Diameter opening through 255mm thick slab.	No	7			
	SMOOTH FORMWORK (DEGREE OF ACCURACY I)					
	Smooth Formwork to Sides:					
17	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	17			
	REINFORCEMENT (PROVISIONAL)					
18	High tensile steel reinforcement bars to structural concrete work.	Tonnes	1.68			
	Fabric reinforcement:					
19	REF. 888 fabric reinforcement in concrete footings, walls, base slabs etc.	m²	231			
	Opening to Cally allow			_		
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	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
BUILDING WORKS					
BILL NO. 3					
MASONRY					
Quantity Split:					
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
A0 - DWG 40 - Learners & Staff Ablutions					
A1 - DWG 36 - Grade R Ablution					
MODEL PREAMBLES					
The tenderer is referred to the "Model 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					
SUPPLEMENTARY PREAMBLES					
BRICKWORK					
Sizes in descriptions					
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick					
Hollow walls etc					
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 "Brixeal" bitumen emulsion waterproofing coating.					
Face bricks					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
Pointing					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
Carried to Collection Section No. 3			R		
Bill No. 3					
Masonry					
40					

		Unit	Quantity	Rate	Amount	
	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					
	<u>Trade names</u>					
	Where trade names are specified it will read "or equal approved"					
	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	345mm thick cavity brick walls made of two leafs of 110mm wall with 135mm concrete fill (concrete					
	elsewhere measured).	m²	73			
	BRICKWORK AND BLOCKWORK SUNDRIES					
	Galvanized brickwork reinforcement					
2	230mm Wide reinforcement in foundation (Provisional)	m	251			
	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):					
3	Extra over for face brick in foundations (Provisional).	m²	6			
	Carried to Collection Section No. 3 Bill No. 3 Masonry 41			R		

BILL NO. 3  MASONRY  COLLECTION		Page No	Amount	
	Brought Forward from Page	40 41		
Section No. 3 Bill No. 3 Masonry	Carried To Section Summary	R		

		1	1	2022_012-TMT/V	VON
	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
BUILDING WORKS					
BILL NO. 4					
WATERPROOFING					
Quantity Split:					
Note that the total quantity per each item is split into the					
various buildings and appears below each description as follows:					
A0 - DWG 40 - Learners & Staff Ablutions					
A1 - DWG 36 - Grade R Ablution					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
SUPPLEMENTARY PREAMBLES					
Proprietary products in descriptions:					
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.					
Waterproofing					
Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc					
Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).					
The product and its methodology for application must be approved by Principal Agent before it is used.					
It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.					
Carried to Collection			R		
Section No. 3			K		
Bill No. 4					
Waterproofing					
43					

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		Unit	Quantity	Rate	Amount	
	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.					
	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	94			
	WATERPROOFING TO PIT WALLS					
	Waterproofing product to plastered walls, subject to approval by the Principal Agent prior to application.					
2	On plastered wall surfaces including 100mm overlap at the base slab	m²	73			
	Carried to Collection Section No. 3			R		
	Bill No. 4					
	Waterproofing					
	44					

BILL NO. 4			Amount	
WATERPROOFING COLLECTION		Page No		
	Brought Forward from Page	43 44		
	Carried To Section Summary	R		
Section No. 3 Bill No. 4 Waterproofing	45			

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	Unit	Quantity	Rate	Amount	
SECTION NO. 3					
BUILDING WORKS					
BILL NO. 5 IRONMONGERY					
Quantity Split:					
Note that the total quantity per each item is split into th various buildings and appears below each description follows:					
A0 - DWG 40 - Learners & Staff Ablutions					
A1 - DWG 36 - Grade R Ablution					
MODEL PREAMBLES					
The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
SUPPLEMENTARY PREAMBLES					
Keys/Locks					
Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys	9				
<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					
SIGN PLATES:					
All sign plates are to be with engraved blue perspexall in accordance with the standard sign plates for Schools.					
Sign plate plugged and screwed to walls with chromiur plated dome headed screws.	n No	5			
SUNDRIES					
Stainless Steel Hat and coat hook, code DHC - SS-030 or equal approved.	DA No	2			
38mm Diameter black rubber door stop plugged and screwed to wall.	No	8			
Carried to Collecti	on		R		
Section No. 3					
Bill No. 5					
Ironmongery					
46					

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		Unit	Quantity	Rate	Amount	
	Halcast or equal approved"					
4	Thiefproof toilet roll holder plugged.	No	8			
	Grade 304 stainless steel ware:					
5	32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.	No	2			
6	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and					
	plugged and screwed to wall with stainless steel crews.	No	2			
	Satin Grey Plastics or equal approved					
7	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose.	No	4			
	Carried to Collection			R		
	Section No. 3 Bill No. 5					
	Ironmongery					
	47					

BILL NO. 5 IRONMONGERY COLLECTION		Page No	Amount	
	Brought Forward from Page	46 47		
Section No. 3 Bill No. 5 Ironmongery	Carried To Section Summary	R		
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					2022_012-TMT/\	WON
		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	BUILDING WORKS					
	BILL NO. 6					
	PLASTERING					
	Quantity Split:					
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
	A0 - DWG 40 - Learners & Staff Ablutions					
	A1 - DWG 36 - Grade R Ablution					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model 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					
	SCREEDS					
	Untinted granolithic, on concrete:					
1	30mm Thick on floors and landings.	m²	58			
	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					
2	On walls.	m²	69			
	0 . 17 0 0			_		
	Carried To Section Summary Section No. 3			R		
	Bill No. 6					
	Plastering					
	49					

					2022_012-TMT/\	WON
		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	BUILDING WORKS					
	BILL NO. 7					
	PLUMBING AND DRAINAGE (PROVISIONAL)					
	Quantity Split:					
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:					
	A0 - DWG 40 - Learners & Staff Ablutions					
	A1 - DWG 36 - Grade R Ablution					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model 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					
	SANITARY PLUMBING					
	PVC waste or vent pipes and fittings:					
1	50mm Waste pipe.	m	55			
2	110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres.	m	32			
	uPVC gulleys					
3	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gulley (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar.	No	2			
	E due form	110	_			
	Extra for:					
4	50mm Bend.	No	24			
5	50mm Access bend.	No	8			
6	Envirosan or equal approved fly screens to top of 110 diameter vent pipe.	No	8			
	WATER SUPPLIES					
	Polycop pipes:					
	Pipes shall be class 10.					
	Carried to Collection			R		<u> </u>
	Section No. 3					
	Bill No. 7  Plumbing And Drainage (provisional)					
	Plumbing And Drainage (provisional) 50					
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		Unit	Quantity	Rate	Amount	
	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:					
7	15mm Pipe chased into brick walls.	m	61			
8	22mm Pipe chased into brick walls.	m	43			
	Extra over polycop pipes for compression fittings:					
9	15mm Fittings.	No	43			
10	22mm Fittings.	No	27			
	LOCKABLE MANHOLE COVERS					
11	600mm diameter lockable circular type M4A product or similar approved manhole SANS 1882 medium duty Dough Moulding compound 4A hinged lid and frame cast into concrete upstand.	No	4			
	Carried to Collection			R		
	Section No. 3			•		
	Bill No. 7					
	Plumbing And Drainage (provisional)					
	51					

		Amount
BILL NO. 7		
PLUMBING AND DRAINAGE (PROVISIONAL)  COLLECTION		
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Section No. 3 Bill No. 7		
Plumbing And Drainage (provisional) 52		

			Amount	
	SECTION NO. 3			
	BUILDING WORKS			
	SECTION SUMMARY			
Bill No.		Page		
1	EARTHWORKS (PROVISIONAL)	35		
2	CONCRETE, FORMWORK AND REINFORCEMENT	39		
3	MASONRY	42		
4	WATERPROOFING	45		
5	IRONMONGERY	48		
6	PLASTERING	49		
7	PLUMBING AND DRAINAGE (PROVISIONAL)	52		
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	SECTION SUMMARY			
	53			
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## SECTION NO. 4 EXTENAL WORKS (PROVISIONAL)

					2022_012-TMT/\	WON
		Unit	Quantity	Rate	Amount	
	SECTION NO. 4					
	EXTENAL WORKS (PROVISIONAL)					
	BILL NO. 1					
	EXTERNAL WORKS					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	THE FOLLOWING IN PLATFORMS, ETC.					
	Site Clearance, ETC					
1	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m²	170			
	Objective and a control of the contr					
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m²	170			
	Open face excavation not exceeding 2m deep:					
3	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m³	122			
	Extra over all excavations for carting away:					
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m³	111			
	Earth filling from excavated material					
5	Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.	m³	60			
	Surface Preparation:					
6	Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.	m²	170			
	constitution of maximum deficitly, part to faile.	111-	170			
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	Carried to Collection			R		<u> </u>
	Section No. 4					
	Bill No. 1					
	External Works					
	55					

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		Unit	Quantity	Rate	Amount	
7	Prescribed density tests on filling:  Modified AASHTO Density test.	No	18			
	THE FOLLOWING IN WALKWAYS					
	Excavation not exceeding 2m deep					
8	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	28			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):					
9	Off site to a dumping site to be found by the Contractor.	m³	28			
	Filling supplied by the contractor under walkways					
10	G7 Base course material compacted to 98% Mod AASHTO density	m³	9			
11	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m³	19			
	Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:					
12	Under floors,etc.	m²	62			
	Prescribed density tests on filling:					
13	In-situ dry density test.	No	8			
14	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years: Treat filling under paving with 'Chlordane Heptachlor					
	Aldrin' or equal approved.	m²	62			
	Concrete Paving Blocks					
	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:					
15	Paving to walkway areas, etc laid to falls.	m²	62			
16	Extra over ordinary paving for 200mm wide block-on-flat header course edging on 100mm thick mortar bed including unreinforced concrete haunching along outside edge.	m	83			
	-					<u> </u>
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	External Works					
	56					

					2022_012-TMT/V	WON
		Unit	Quantity	Rate	Amount	
	Kerbing					
	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.					
17	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	83			
18	Ditto but circular on plan.	m	8			
19	Fig. 12 kerb size 75 x 150mm high overall, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	35			
20	Ditto but circular on plan.	m	7			
	THE FOLLOWING IN DISABLED ACCESS					
	SCREEN WALL					
	Excavation in earth not exceeding 2m deep:					
21	Trenches.	m³	2			
	Extra over all excavations for carting away:					
22	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m³	1			
	Risk of collapse of excavations:					
23	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	6			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:					
24	Backfilling to trenches, holes, etc.	m³	1			
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:					
25	Under footings.	m³	1			
	Compaction of surfaces					
26	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	2			
	Carried to Collection			R		
	Section No. 4			18		
	Bill No. 1					
	External Works					
	57					

		Unit	Quantity	Rate	Amount	
	25 Mpa/19mm Concrete					
27	Strip footings.	m³	1			
	<u>Test blocks:</u>					
28	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	1			
	Reinforcement (Provisional)					
29	High tensile steel reinforcement bars to structural concrete work.	Tonnes	0.10			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
30	One brick walls.	m²	2			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):					
31	One brick walls.	m²	8			
	Brickwork reinforcement:					
32	230mm Wide reinforcement built in horizontally.	m	28			
33	Ditto but in foundations.	m	16			
	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):					
34	One brickwall faced on both sides.	m²	16			
	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:					
35	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	4			
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1 External Works					
	58					

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		Unit	Quantity	Rate	Amount	
	ACCESS RAMPS					
	Excavation not exceeding 2m deep					
36	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	1			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):					
37	Off site to a dumping site to be found by the Contractor.	m³	1			
	Filling supplied by the contractor under floors, aprons, etc					
38	G7 Base course material compacted to 98% Mod AASHTO density	m³	1			
39	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	1			
	Coarse river sand filling supplied by the contractor:					
40	Under floors etc.	т³	1			
	Compaction of surfaces:					
41	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	4			
	Dungarihad dayaitu taata ay fillinga					
40	Prescribed density tests on filling:					
42	In-situ dry density test.	No	2			
	Reinforced 25Mpa/19mm Concrete:					
43	Ramps, Landings, etc.	т³	1			
	Finishing top surfaces of concrete smooth with a wood float:					
44	Surface beds, slabs, etc to falls and currents.	m²	4			
	Test blocks:					
45	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:					
46	12mm Joints not exceeding 300mm high.	m	3			
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	External Works					
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		Unit	Quantity	Rate	Amount	
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
47	10 x 12mm In movement joints in floors or walls					
77	including raking out expansion joint filler as necessary.	m	3			
	Fabric reinforcement:					
48	REF. 395 fabric reinforcement in concrete surface beds,					
	slabs, etc.	m²	4			
	Waterproofing under Surface beds					
49	350 Micron USB orange polyethylene dampproof					
	membrane in accordance with SABS 952 Type C laid on					
	sand bed (elsewhere measured).	m²	4			
	THE FOLLOWING IN STORMWATER DRAINAGE,					
	APRONS ETC.					
	STORMWATER APRONS					
	Excavation not exceeding 2m deep					
50	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	15			
	·	111	15			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance					
	made for increase in bulk):					
51	Off site to a dumping site to be found by the Contractor.	m³	15			
	Filling supplied by the contractor under floors,					
	aprons, etc					
52	G7 Base course material compacted to 98% Mod					
	AASHTO density	m³	2			
53	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			
	Coarse river sand filling supplied by the contractor:					
54	Under floors etc.	m³	1			
	Compaction of surfaces:					
55	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	51			
	Prescribed density tests on filling:					
56	In-situ dry density test.	No	4			
						<u> </u>
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	External Works					
	60					

		Unit	Quantity	Rate	Amount	
	Reinforced 25Mpa/19mm Concrete:					
57	Surface beds cast in panels on waterproofing.	m³	7			
58	Edge thickening	m³	3			
	Finishing top surfaces of concrete smooth with a wood float:					
59	Surface beds, slabs, etc to falls and currents.	m²	51			
	Test blocks:					
60	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:					
61	12mm Joints not exceeding 300mm high.	m	24			
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
62	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	24			
	Fabric reinforcement:					
63	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m²	51			
	Waterproofing under Surface beds					
64	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m²	51			
	STORMWATER CHANNELS					
65	Excavation not exceeding 2m deep	m³	11			
66	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	5			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):					
67	Off site to a dumping site to be found by the Contractor.	m³	11			
	Filling supplied by the contractor under channels					
68	G7 Base course material compacted to 98% Mod AASHTO density	m³	5			
	Carried to Collection			R		
	Section No. 4 Bill No. 1					
	External Works					
	61					

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		Unit	Quantity	Rate	Amount	
69	accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.  Cast in-situ Ref 395 mesh reinforced concrete	m³	5			
	(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.					
70	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	51			
71	Extra for 700mm angle	No	7			
72	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	2			
	Sundries:					
73	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	51			
74	Construct shaped earth V-drain 2m wide with grass runners	m	35			
	THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.					
	Excavation not exceeding 2m deep					
75	Reducing levels and depositing excavated material in prescribed stock piles on site.	m³	17			
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):					
76	Off site to a dumping site to be found by the Contractor.	m³	9			
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	External Works					
	62					

					2022_012-TMT/\	WON
		Unit	Quantity	Rate	Amount	
	Filling supplied by the contractor under floors, aprons, channels etc					
77	G7 Base course material compacted to 98% Mod AASHTO density	m³	4			
78	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			
	Coarse river sand filling supplied by the contractor:					
79	Under floors etc.	m³	1			
	Compaction of surfaces:					
80	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	29			
	Prescribed density tests on filling:					
81	In-situ dry density test.	No	6			
	Reinforced 25Mpa/19mm Concrete:					
82	Surface beds cast in panels on waterproofing.	m³	4			
	Finishing top surfaces of concrete smooth with a wood float:					
83	Surface beds, slabs, etc to falls and currents.	m²	29			
	Test blocks:					
84	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:					
85	12mm Joints not exceeding 300mm high.	m	14			
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
86	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	14			
	Fabric reinforcement:					
87	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m²	29			
	Carried to Collection			R		
	Section No. 4			1		$\vdash$
	Bill No. 1					
	External Works					
	63					

THE FOLLOWING IN SOAKAWAY  Site Clearance, Etc  83 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  Excavation in earth not exceeding 2m deep:  Holes m³ 16  Extra over all excavations for carting away  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  Risk of collapse of excavations  Risk of collapse of excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  92 Backfilling to holes  Earth filling with stone material supplied by the contractor:  93 Stone (>53mm).  Membranes  94 Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces.  m2 0.0     (02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation In earth not exceeding 2m deep:  Trenches.  Extra over all excavations for carting away:  95 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.  m³ 5			•			2022_012-1101/	WON
Site Clearance, Etc  Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  Excavation in earth not exceeding 2m deep:  Holes  Mary 16  Extra over all excavations for carting away  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  Risk of collapse of excavations  Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 30% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  Stone (>53mm).  Membranes  Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces.  m2 0.0     02/11/2022   m²  40  Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations and/or stock piles on  Surplus material from excavations and/or stock piles on			Unit	Quantity	Rate	Amount	
Site Clearance, Etc  Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  Excavation in earth not exceeding 2m deep:  Holes  Mary 16  Extra over all excavations for carting away  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  Risk of collapse of excavations  Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 30% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  Stone (>53mm).  Membranes  Bidim Geotextile or equal approved, lined on all sides including the top and bottom faces.  m2 0.0     02/11/2022   m²  40  Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations and/or stock piles on  Surplus material from excavations and/or stock piles on		THE FOLLOWING IN SOAKAWAY					
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc  Excavation in earth not exceeding 2m deep:  Holes  Extra over all excavations for carting away  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  Risk of collapse of excavations  Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  Stone (>53mm).  Membranes  BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.  m2 0.0     02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations for carting away:  Surplus material from excavations and/or stock piles on							
Holes m³ 16  Extra over all excavations for carting away  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  Risk of collapse of excavations  Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  93 Stone (>53mm). m³ 10  Membranes  BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches. m³ 8  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on	88	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth,	m²	32			
Holes m³ 16  Extra over all excavations for carting away  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  Risk of collapse of excavations  Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  93 Stone (>53mm). m³ 10  Membranes  BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches. m³ 8  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on		Excavation in earth not exceeding 2m deep:					
Extra over all excavations for carting away  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  Risk of collapse of excavations  Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  Stone (>53mm).  Membranes  BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on	89		m³	16			
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  Risk of collapse of excavations Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  Stone (>53mm).  Membranes  BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2[0.0]    02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations for carting away:  Surplus material from excavations and/or stock piles on		Extra over all excavations for carting away					
site to a dumping site to be located by the contractor within 5km from the building site  Risk of collapse of excavations  Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  92 Backfilling to holes  Earth filling with stone material supplied by the contractor:  93 Stone (>53mm).  Membranes  94 BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0    02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  Item  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on	an	<u> </u>					
Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  Stone (>53mm).  Membranes  BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  Item  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations and/or stock piles on	50	site to a dumping site to be located by the contractor	m³	6			
deep but not exceeding 3,0m deep  Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density  Backfilling to holes  Earth filling with stone material supplied by the contractor:  Stone (>53mm).  Membranes  BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches.  Extra over all excavations and/or stock piles on		Risk of collapse of excavations					
prescribed stock piles on site compacted to 90% Mod AASHTO density  92 Backfilling to holes  Earth filling with stone material supplied by the contractor:  93 Stone (>53mm).  Membranes  94 BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27   Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  96 Trenches.  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on	91		m²	42			
Earth filling with stone material supplied by the contractor:  93 Stone (>53mm). m³ 6  Membranes  94 BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27  m² 40  Keeping excavations free of water Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS Excavation in earth not exceeding 2m deep: Trenches. m³ 8  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on		prescribed stock piles on site compacted to 90%					
Stone (>53mm).   m³   6	92	Backfilling to holes	m³	10			
Membranes     BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022     05:24:27							
BidimGeotextile or equal approved, lined on all sides including the top and bottom faces. m2 0.0     02/11/2022 05:24:27  m² 40  Keeping excavations free of water Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS Excavation in earth not exceeding 2m deep: Trenches. m³ 8  Extra over all excavations for carting away:  Surplus material from excavations and/or stock piles on	93	Stone (>53mm).	m³	6			
including the top and bottom faces. m2 0.0     02/11/2022   m² 40  Keeping excavations free of water  Keeping excavations free of all water other than subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches. m³ 8  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on		Membranes					
Keeping excavations free of all water other than subterranean water    THE FOLLOWING IN RAINWATER TANKS AND STANDS	94	including the top and bottom faces. m2 0.0    02/11/2022	m²	40			
subterranean water  THE FOLLOWING IN RAINWATER TANKS AND STANDS  Excavation in earth not exceeding 2m deep:  Trenches. m³ 8  Extra over all excavations for carting away:  Surplus material from excavations and/or stock piles on		Keeping excavations free of water					
STANDS  Excavation in earth not exceeding 2m deep:  96 Trenches. m³ 8  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on	95		Item				
96 Trenches. m³ 8  Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on							
Extra over all excavations for carting away:  97 Surplus material from excavations and/or stock piles on		Excavation in earth not exceeding 2m deep:					
97 Surplus material from excavations and/or stock piles on	96	Trenches.	m³	8			
		Extra over all excavations for carting away:					
	97		m³	5			
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		Unit	Quantity	Rate	Amount	
98	Risk of collapse of excavations:  Sides of trench and hole excavations not exceeding 1,5m deep.  Earth filling obtained from the excavations and/or	m²	32			
	prescribed stock piles on site compacted to 93%  MOD AASHTO density:					
99	Backfilling to trenches, holes, etc.	m³	3			
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:					
100	Under footings.	m³	7			
	Compaction of surfaces					
101	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			
	25 Mpa/19mm Concrete					
102	Strip footings.	m³	3			
	25 MPa/19mm Concrete:	_				
103	Tank concrete slab.	m³	2			
104	Test blocks:  Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5			
	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:					
105	Surface beds, slabs, etc.	m²	16			
	Rough Formwork to Sides:					
106	Edges, risers, ends and reveals not exceeding 300mm high.	m	32			
	Allens Meshco Square Mesh Fabric reinforcement:	_				
107	Type 617 fabric reinforcement in concrete slabs.	m²	16			
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		Unit	Quantity	Rate	Amount	
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
108	One brick walls.	m²	18			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):					
109	One brick walls.	m²	16			
	Brickwork reinforcement:					
110	230mm Wide reinforcement built in horizontally.	m	128			
111	Ditto but in foundations.	m	128			
	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):					
112	Extra over brickwork for face brickwork externally.	m²	16			
	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:					
113	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	32			
	Plastic water tanks etc:					
114	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			
115	Hole top of tank for 100mm pipe.	No	4			
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		Unit	Quantity	Rate	Amount	
	THE FOLLOWING IN SECURITY FENCING, ETC Site clearance					
116	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	107			
	Straining wires, fencing and razor wire:					
117	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	107			
118	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	107			
119	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	107			
	Posts for 1 800mm high security fence:					
120	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	22			
121	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	13			
122	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	13			
123	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	48			
124	Form 12mm diameter hole through fence post.	No	292			
	Carried to Collection			R		
	Section No. 4 Bill No. 1					
	External Works					
	67					

		Unit	Quantity	Rate	Amount	
125	Gates:  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			
126	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	1			
127	PADLOCKS Supply 50 mm "Viro" Padlocks and Keys (or equal approved )	No	2			
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	Bill No. 1 External Works					

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## SECTION NO. 5 PROVISIONAL SUMS

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SECTION NO. 5			
PROVISIONAL SUMS			
SECTION 5			
BILL No. 1			
PROVISIONAL SUMS			
SUPPLEMENTARY PREAMBLES			
Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related therto.			
PRE-FABRICATED STRUCTURES			
NOTE: Shop drawings / Specifications will be requiredfor approval by the Principal Agent PRIOR to installation.			
The ABT Specialist Supplier must be competent personregistered with relevant statutory body, all ABT construction shall comply with SABS standards and approved by AGREMENT SA.			
The Structures to be erected will be as follows:			
Learners and Staff ablution structure on concrete slab,size 9400 x 3080 x 3120mm high complete with 4No.external door including security gate, 4No. Internal doors, 13No. windows, 5No. WCs, 1No. urinals, 4No.wash hand basin etc.			
Grade R ablution structure on concrete slab, size 5400 x 3080 x 3120mm high complete with 1No. External doors including security gate, 7No. windows, 1No. WC, 2No. junior WCs, 2No. wash hand basins etc.			
Pre-fabricated Modular Units shall comprise of:			
Internal and external walls made of 40mm thick wall panel which consist of 0.5mm rigidised prepainted white galvanised chromadek sheeting on both sides including base rails, top rails all joined with aluminium rivets.			
600 x 600mm high casement type (W1) naturalanodised aluminium window including frames and 4mm obscure glass with one top hung opener; Windows are to be secured with aluminium profile burglar proofing.			
813 x 2032mm high external doors manufactured from the same materials as the walls and fitted with hinges, five lever mortice lock, complete with striker plates, two keys chrome plated handles etc.			
813 x 1882mm high internal door manufacturedfrom the same materials as the walls and fittedwith hinges, 3 lever mortice lock complete withstriker plates, two keys chrome plated handlesetc.			
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	Galvanised mild steel security gate 900 x 2050mm high overall size.			
	2mm thick vinyl sheeting on floors.			
	The roof is to be 0.5mm Chromadek IBR sheeting mono pitched roof with mono pitched galvanised ridge capping, 255mm lapping secured onto the roof including light steel frame roof at 6 degree slope.			
	125mm half round PVC gutters including gutter brackets at 1000mm centres with 75mm rainwater PVC fluted downpipes connected to 5000L plastic water tanks (elsewhere measured).			
	Medium density plain un-grooved fascia boards.			
	85 x 275 x 6.0mm barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.			
	Plumbing and sanitary fittings shall comprise of WCs, Urinals, Wash hand basins, 15mm and 22mm polycop water supply pipes, 50mm diameter PVC drainage pipes and associated accessories			
1	Provide the sum of R655 000.00 for the supply and installation of Alternative Building Technology (ABT) toilet structures, as above described, by a nominated sub-contractor.	Item	655 000 00	`
			033 000 00	,
2	Add: Profit on above.	Item		
3	Add: Attendance on above.	Item		
	ELECTRICAL INSTALLATION			
4	Provide the sum of R80 000.00 for Electrical supplycables, flexible sleeves, terminations and lightningprotection including COCs.	Item	80 000 00	)
5	Add: Profit on above.	Item		
6	Add: Attandance on above.	Item		
	TEMPORARY ABLUTIONS			
7	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand Rand) for the Supply, Servicing and maintenance of temporary ablutions for the			
	duration of the project and Removal thereof on completion.	Item	250 000 00	)
8	Add: Profit	Item		
9	Add: Attendance	Item		
	COMMUNITY LIAISON OFFICER			
10	Provide the sum of R58 500.00 for the employment of a			
	Community Liaison Officer to be employed by the Main			
	Contractor and be paid an allowance of R6 500.00 a			
	month for the duration (9 months)	Item	58 500 00	)
11	Add: Profit on above.	Item		
	Add. From on above.	110111		
	Carried To Section Summary	R		_
	Section No. 5			_
	Bill No. 1			
	Provisional Sums			
ļ	73			

			Amount	
12	Add: Attendance on above.	Item		
		_		
	Carried To Section Summary Section No. 5	R		
	Bill No. 1			
	Provisional Sums 74			

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			Amount	
SECTION NO. 5				
PROVISIONAL SUMS				
SECTION SUMMARY				
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	Brought forward from page	73		
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	Corried to Final Comme	_		
Section No. 5	Carried to Final Summary	R		
SECTION SUMMARY				
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2	DEMOLITIONS (PROVISIONAL)	29	
3	BUILDING WORKS	53	
4	EXTENAL WORKS (PROVISIONAL)	70	
5	PROVISIONAL SUMS	75	
	ADD: CONTINGENCIES		
	Allow the Amount of R155 000.00 (One Hundred and Fifty Five Thousand Rand) for contingencies to be used by the Architect.		155 000 00
	SubTotal excluding Value Added Tax		
	ADD VAT @ 15%:		
	Carried to Tender	I	R
	FINAL SUMMARY		
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