Item No		Quantity	Rate	Amount
	SECTION 1			
	BILL No.1			
	PRELIMINARIES			
	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.			
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7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.		
8. Where any item is not relevant to this specific contract, such item is marked N/A.		
9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.		
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	SECTION A: PRINCIPAL BUILDING AGREEMENT			
	<u>DEFINITIONS</u>			
	Definitions and interpretation (Clause 1).			
1	F: V: T:	Item		
	OBJECTIVE AND PREPARATION			
	Offer, acceptance and performance (Clause 2).			
2	F: V: T:	Item		
	Documents (Clause 3).			
	Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'			
	Clause 3.3 is deleted and substituted with:			
	The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.			
3	F: V: T:	Item		
	Design responsibility (Clause 4).			
4	F: V: T:	Item		
	Employer's agents (Clause 5).			
5	F: V: T:	Item		
	Site representative (Clause 6).			
6	F: V: T:	Item		
	Compliance with regulations (Clause 7).			
7	F: V: T:	Item		
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	Works risk (Clause 8)			!	
٥	F: V: T:	Itom			
8		Item			
	Indemnities (Clause 9).				
	Clause 9.1.1 is deleted and substituted with:				
	Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.				
9	F: V: T:	Item			
	Works insurances (Clause 10).				
10	F: V: T:	Item			
	Liability insurances (Clause 11).				
11	F: V: T:	Item			
	Effecting insurances (Clause 12).				
12	F: V: T:	Item			
	State Provisions (Clause 13).				
13	F: V: T:	Item			
	Security (Clause 14).				
14	F: V: T:	Item			
	EXECUTION				
	Preparation for and execution of the works (Clause 15).				
15	F: V: T:	Item			
	Access to the works (Clause 16).				
16	F: V: T:	Item			
	Contract instructions (Clause 17).				
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17	F: V: T:	Item		
	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.			
18	F: V: T:	Item		
	Assignment (Clause 19).			
19	F: V: T:	Item		
	Nominated subcontractors (Clause 20).			
20	F: V: T:	Item		
	Selected subcontractors (Clause 21).			
21	F: V: T:	Item		
	Employer's Direct contractors (Clause 22).			
22	F: V: T:	Item		
	Contractor's Domestic subcontractors (Clause 23).			
23	F: V: T:	Item		
	COMPLETION			
	Practical completion (Clause 24).			
24	F: V: T:	Item		
	Works completion (Clause 25).			
25	F: V: T:	Item		
	Final completion (Clause 26).			
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	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		
	Sectional completion (Clause 28).			
27	F: V: T:	Item		
	Revision of date for practical completion (Clause 29).			
28	F: V: T:	Item		
	Penalty for non-completion (Clause 30).			
29	F: V: T:	Item		
	<u>PAYMENT</u>			
	Interim payment to the contractor (Clause 31).			
	The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.			
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	Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.			
	Adjustment to the contract value (Clause 32).			
30	F: V: T:	Item		
	Recovery of expense and loss (Clause 33).			
31	F: V: T:	Item		
	Final account and final payment (Clause 34).			
32	F: V: T:	Item		
	Payment to other parties (Clause 35).			
33	F: V: T:	Item		
	CANCELLATION			
	Cancellation by Employer - Contractor's default (Clause 36).			
34	F: V: T:	Item		
	Cancellation by Employer - Loss and damage (Clause 37).			
35	F: V: T:	Item		
	Cancellation by Contractor - Employer's default (Clause 38).			
36	F: V: T:	Item		
	Cancellation - Cessation of the works (Clause 39).			
37	F: V: T:	Item		
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	DISPUTE				
	Dispute Settlement (Clause 40)				
38	F: V: T:	Item			
	SUBSTITUTE PROVISIONS				
	State Clauses (Clause 41)				
39	F: V: T:	Item			
	CONTRACT VARIABLES				
	The Schedule: Pre-Tender information (Clause 42).				
40	F: V: T:	Item			
	CONTRACTING AND OTHER PARTIES (Clause 42.1)				
	Employer: The Mvula Trust				
	Postal Address: 67 Devereux Avenue, Vincent, East London				
	Telephone: 043 726 2255				
	Facsimile: 043 726 5967				
	Physical address: 67 Devereux Avenue, Vincent, East London				
	Principal Agent: The Mvula Trust				
	Postal Address: 67 Devereux Avenue, Vincent, East London				
	Telephone: 043 726 2255				
	Facsimile: 043 726 5967				
	Physical address: 67 Devereux Avenue, Vincent, East London				
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CONTRACT DETAILS (Clause 42.2)		
Clause 42.2.1		
Works Description: Construction of new ablution facilities and renovations to existing ablution block.		
Clause 42.2.2		
Site Description: The site is the existing school.		
Clause 42.2.3		
Work or Installations by Others: NIL		
Clause 42.2.4		
This Agreement is for a State Contract :- Yes		
Payment will be made for materials and goods:- Yes		
Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.		
Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A		
Clause 42.2.5		
Date on which possession of the site is intended to be given on :-		
To be advised.		
Clause 42.2.6		
Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.		
Completion in Sections are required : NO		
Clause 42.2.7		
Intended date of practical completion and the penalty per calendar day for the works as a whole :-		
Date of Practical Completion To be advised.		
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Penalty amount will be R2000 per calendar day up to a maximum of 10% of the Contract Sum.		
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 10million		
With a deductible of: Not exceeding 5% of each and every claim.		
DOCUMENTS (Clause 42.4)		
Clause 42.4.1		
Waiver of the contractor's lien is required :- YES		
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	Clause 42.4.2			
	Number of construction document copies to be supplied to the Contractor free of charge :- 1			
	Clause 42.4.3			
	Bills of Quantities drawn up in accordance with :-			
	Standard System of Measuring Building Work - Seventh Edition including all amendments			
	Clause 42.4.4			
	Number of days for submission of priced documents : 5 working days from the Letter of Appointment.			
	Clause 42.4.5			
	JBCC Engineering General Conditions are to be included in the documents :- No			
	Clause 42.4.6			
	The contract value is to be adjusted using CPAP:- NO			
	SECTION B: PRELIMINARIES			
	DEFINITIONS AND INTERPRETATION (B1)			
	Definitions and Interpretation (B1)			
41	F: V: T:	Item		
	DOCUMENTS (B2)			
	Checking of documents (B2.1)			
	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
42	F: V: T:	Item		
	Provisional Bills of Quantities (B2.2) YES			
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	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			
	Availability of construction documentation (B2.3)				
44	F: V: T:	Item			
	Interests of Agents (B2.4)				
45	F: V: T:	Item			
	Priced documents (B2.5)				
46	F: V: T:	Item			
	Tender submission (B2.6)				
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.				
47	F: V: T:	Item			
	THE SITE (B3)				
	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			
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	Geotechnical investigation (B3.2)			
	A desktop geotechnical report is available upon request.			
49	F: V: T:	Item		
	Inspection of the Site (B3.3)			
50	F: V: T:	Item		
	Existing premises occupied (B3.4)			
51	F: V: T:	Item		
	Previous work - dimensional accuracy (B3.5)			
52	F: V: T:	Item		
	Previous work - defects (B3.6)			
53	F: V: T:	Item		
	Services - known (B3.7)			
54	F: V: T:	Item		
	Services - unknown (B3.8)			
55	F: V: T:	Item		
	Protection of trees (B3.9)			
56	F: V: T:	Item		
	Articles of value (B3.10)			
57	F: V: T:	Item		
	Inspection of adjoining properties (B3.11)			
58	F: V: T:	Item		
	MANAGEMENT OF CONTRACT (B4)			
	Management of the Works (B4.1)			
59	F: V: T:	Item		
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	Programme for the Works (B4.2)			
60	F: V: T:	Item		
	Progress meetings (B4.3)			
61	F: V: T:	Item		
	Technical meetings (B4.4)			
62	F: V: T:	Item		
	SAMPLES AND SHOP DRAWINGS (B5)			
	Samples of materials (B5.1)			
63	F: V: T:	Item		
	Workmanship samples (B5.2)			
64	F: V: T:	Item		
	Shop drawings (B5.3)			
65	F: V: T:	Item		
	TEMPORARY WORKS AND PLANT (B6)			
	Deposits and fees (B6.1)			
66	F: V: T:	Item		
	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		
	Advertising (B6.3)			
68	F: V: T:	Item		
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	Plant and equipment (B6.4)				
69	F: V: T:	Item			
	Main notice board (B6.5)				
	One notice board shall be provided by the Contractor				
70	F: V: T:	Item			
	Subcontractors notice board (B6.6) (N/A)				
71	F: V: T:	Item			
	TEMPORARY SERVICES (B7)				
	Location (B7.1)				
72	F: V: T:	Item			
	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			
	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).				
74	F: V: T:	Item			
	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			
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	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		
	PRIME COST AMOUNTS (B8)			
	Responsibility for prime cost amounts (B8.1)			
77	F: V: T:	Item		
	ATTENDANCE ON N/S SUBCONTRACTORS (B9)			
	General Attendance (B9.1)			
78	F: V: T:	Item		
	Special Attendance (B9.2)			
79	F: V: T:	Item		
	Commissioning - fuel, water and power (B9.3)			
80	F: V: T:	Item		
	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		
	Payment of Preliminaries (B10.2)			
82	F: V: T:	Item		
	Adjustment of Preliminaries (B10.3)			
83	F: V: T:	Item		
	Payment certificate cash flow (B10.4)			
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84	F: V: T:	Item		
	Contractor information supply (B10.5)			
85	F: V: T:	Item		
	GENERAL (B11)			
	Protection of the Works (B11.1)			
86	F: V: T:	Item		
	Protection/isolation of existing/sectionally occupied works (B11.2)			
87	F: V: T:	Item		
	Site security (B11.3)			
88	F: V: T:	Item		
	Notice before covering work (B11.4)			
89	F: V: T:	Item		
	Disturbance (B11.5)			
90	F: V: T:	Item		
	Works cleaning and clearing (B11.6)			
91	F: V: T:	Item		
	Vermin (B11.7)			
92	F: V: T:	Item		
	Overhand work (B11.8)			
93	F: V: T:	Item		
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	SECTION C: SPECIFIC PRELIMINARIES			
	Section C: Specific Preliminaries:			
	C1. Proprietary branded products			
	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.			
94	F: V: T:	Item		
	C2. Trade Names, etc.			
	All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.			
	The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.			
95	F: V: T:	Item		
	C3. Contractors responsibility			
	The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.			
96	F: V: T:	Item		
	C4. Overtime			
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	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
97	F: V: T:	Item		
	C5. As built drawings			
	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.			
	Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.			
98	F: V: T:	Item		
	C6. Construction Instructions			
	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
	a) Construction Instruction Book:			
	Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
	Only instructions issued in such book shall be recognised.			
	b) Daily Record Book:			
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	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his countersignature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.				
99	F: V: T:	Item			
	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			
	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			
	C9. Encroachment				
	During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.				
102	F: V: T:	Item			
	C10. Method Statement				
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	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.			
103	F: V: T:	Item]
	C11. Unauthorised Persons/Workmen on Premises			ı
	The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.			
	No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.			
104	F: V: T:	Item		1
	C12. Mode of Procedure			Ì
	Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.			
	Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.			
105	F: V: T:	Item		1
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	C13. Location of Temporary Buildings and Temporary Services				
	The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.				
	There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.				
106	F: V: T:	Item			
	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			
	C15. Storage Facilities				
108	The Contractor shall provide a Container for storage of materials.	Item			
109	F: V: T:	Item			
	C16. Removal and Making Good of Temporary Works, etc, on Completion				
	The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.				
110	F: V: T:	Item			
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112	SUB - TOTAL: VALUE - RELATED ITEMS	Item		
113	SUB - TOTAL: TIME - RELATED ITEMS	Item		
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Section 1 Bill No. 1 Preliminaries	Carried Forward		R	
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Section 1				
Bill No. 1				
Preliminaries				
COLLECTION				
	Brought Forward	Page No	R	Amount
Total Brought Forward from Page No.		22		
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Bill No. 1 Preliminaries				

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

	OCCUPATIONAL HEALTH AND SAFETY					
	General:					
1	Preparation of Contractor's site specific Health and Safety Plan.		Item			
2	Submission of the Health and Safety File.		Item			
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item			
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item			
5	Provision of full time Health and Safety Officer for the entire construction period.		Item			
6	Induction training of personnel.	No				
7	Provision of first aid boxes.	No				
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	520			
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1			
10	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	2			
	Provision for Personal Protective Equipment and Protective Clothing:					
11	Reflective vests.	No				
12	Hard hats.	No				
13	Protective foot wear.	No				
14	Ear Plugs.	No				
15	Dust Masks.	No				
	Carried to Collection	ı		R	_	
	Section 1 Bill No. 2 Health and Safety					

	Costs of Medical Certificates and Medical				
	Surveillance:				
16	Initial (baseline) medical examinations.	No			
17	Exit Examinations.	No			
	Noise Monitoring:				
18	Establishment of noise zones.	No			
19	Audiograms.	No			
	C16. Covid-19 Compliance Measures				
20	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.		Item		
	Provide Temporary Toiltes:				
21	Supply, deliver, empty and clean twice a week temporary toilets for a period of 8 months	No	8		
	Carried to Collection			R	
	Section 1 Bill No. 2 Health and Safety				

Section 1				
Bill No. 2				
Health and Safety				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 26 27 28		Amount	
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Section 1 Bill No. 2 Health and Safety				

Section 1 **SECTION SUMMARY - PRELIMINARIES** Page **A**mount No Preliminaries 25 Health and Safety 29 **Carried to Final Summary** R Section 1

Bill

No

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 1			
	ALTERATIONS TO EXISTING TOILET BLOCK (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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	Existing Furniture, Equipment, etc			
	The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow: The Contractor must give the Principal Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done			
	Section 2 Bill No. 1 Alterations (Provisional)		R	

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<u>Damage to existing finishes</u>		
The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent.		
Breaking down, demolition and alteration activities and tasks, hacking off of exitsing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of exitsing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account		
Responsibility for site		
The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above		
Explosives		
No explosives whatsoever may be used for demolition purposes unless otherwise stated		
<u>General</u>		
The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent		
Carried to Collection	R	
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Bill No. 1 Alterations (Provisional)		

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent			
Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately			
"Taking out and removing doors, windows, etc" implies that the door, etc is to be carefully taken down together with the fame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position			
Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing			
"Forming openings" for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing			
"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades			
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Carried to Collection	R		
Section 2 Bill No. 1 Alterations (Provisional)			
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The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing "Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where distrubed or affected by the removal are to be made good and left ready for plaster or other finishings as described Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained "Building up openings" implies that after the removal of any doors, windows or screens that may be decribed to be taken down, the opening is to be filled up solid (or to the tickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described. Removal of asbestos material All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc. **Carried to Collection** R Section 2 Bill No. 1 Alterations (Provisional)

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	REMOVAL OF EXISTING WORK				
	Break down and remove brickwork etc				
1	One brick wall in beam filling	m2	8		
	Take out and remove doors, windows, etc from brickwork to remain				
2	Timber single door 813 x 2032mm high including frame.	No	4		
	Take down and remove roofs, floors, panelling, ceilings, partitions, etc				
3	Corrugated metal roof sheeting including timber rafters, purlins, etc.	m2	80		
4	Timber roof rafters, wall plates and purlins (building area measured flat including verandas and overhangs	m2	80		
	Hack up/off and removing grano, screed, plaster & prepare surface to receive new				
5	Average 50mm Screed from floors	m2	54		
6	External plaster to brickwork in patches	m2	203		
7	Internal plaster from walls and columns	m2	277		
	Hacking up/off and removing ceramic wall and floor tiles including removing mortar bed or adhesive from concrete and prepare surfaces for new screed, plaster, tile finish, etc				
8	Hack off existing ceramic tiles and cart away off site to a dumping site located by the contractor and prepare surface to receive new floor finish. (elsewhere measured)	m2	148		
9	Hack off existing ceramic tiles and cart away off site to a dumping site located by the contractor and prepare surface to receive new floor finish. (elsewhere measured)	m2	148		
10	Tile skirting 100mm high	m	79		
	Carried to Collection			R	\perp
	Section 2 Bill No. 1 Alterations (Provisional)				

	Taking out and removing sanitary fittings etc and making good floor and wall finishes (making good				
	tiling and paintwork elsewhere)				
11	Stainless steel wash hand basin	No	2		
12	Vitreous china wash hand basin	No	2		
13	Vitreous china WC pan with cistern	No	12		
14	Vitreous china WC pan with flush valve	No	2		
	Breaking up and removing reinforced concrete				
	Breaking down and removing brickwork etc				
15	One brick walls.	m2	20		
	Prepare existing surfaces for new finish				
16	Clean down, etc. existing emulsion painted internal and external plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish.	m2	176		
	Taking out and removing sundry joinery work, fittings, etc.				
17	Toilet paper holder from wall.	No	10		
	Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc				
18	Average 30mm Screed from floors.	m2	54		
	BUILDING UP OPENINGS				
	Brickwork in NFP bricks in class II mortar in building up opening				
19	One brick walls.	m2	5		
	MAKING GOOD OF FINISHES ETC				
	Making good internal and external cement plaster				
20	Walls in patches.	m2	20		
	Carried to Collection			R	
	Section 2 Bill No. 1 Alterations (Provisional)				

21	25 x 0.9mm galvanised chicken mesh wall plaster in patches.	m2	20		
	Repairs to structural cracks, etc				
22	Rake out existing minor structural crack in blockwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere).	m	80		
	Carried to Collection			R	
	Section 2 Bill No. 1 Alterations (Provisional)				

Section 2				
Bill No. 1				
Alterations (Provisional)				
COLLECTION				
	Page No		Amount	
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Section 2 Bill No. 1				
Alterations (Provisional)				
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 4			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	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.			
	Carried to Collection		R	
	Section 2 Bill No. 2 Masonry			

Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.		
Face bricks		
Bricks shall be ordered timeously to obtain uniformity in size and colour		
<u>Pointing</u>		
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc		
<u>Samples</u>		
Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site		
<u>Trade names</u>		
Where trade names are specified it will read "or equal approved"		
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Section 2 Bill No. 2		\vdash
Masonry		

	BRICKWORK AND BLOCKWORK SUNDRIES				
	BRICKWORK IN SUPERSTRUCTURE				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:				
1	Half brick walls.	m2	13		
2	One brick walls.	m2	8		
3	Half brick wall in beam filling including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar.	m2	10		
	Galvanized brickwork reinforcement				
4	115mm Wide reinforcement built in horizontally	m	51		
5	230mm Wide reinforcement built in horizontally.	m	35		
	Cramps, ties, etc:				
6	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	44		
	Air bricks etc:				
7	229 x 152mm terracotta clay vermin proof air brick	No	18		
	Carried to Collection			R	
	Section 2 Bill No. 2 Masonry				

Section 2				
Bill No. 2				
Masonry				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	40			
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Masonry				
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 6			
	ROOF COVERINGS			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	<u>Flashings</u>			
	Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind drived water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour:			
	Carried to Collection Section 2 Bill No. 3 Roof Coverings Etc.		R	

Quality Assurance		
The manufacturer shall be assessed and certifed as complying with ISO 9001: 2008 Quality Management System		
Guarantee		
Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.		
Safety		
The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity		
Handling and Storage		
The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction		
Carried to Collection Section 2	R	
Bill No. 3 Roof Coverings Etc.		

Inspection Prior to Installation or Erection Before commencing with installation, the contractor shall verify that the following items have been checked and accepted: a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances c. The corners of the roof are square and the wall framework is perpendicular or as specified d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding **Protrusion through Sheeted Surfaces** Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation Cleaning of Roofs, etc All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc **Carried to Collection** R Section 2 Bill No. 3 Roof Coverings Etc.

Section 2	Carried to Collection	R	_
Bill No. 3 Roof Coverings Etc.			

	ROOF COVERINGS				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face:				
1	Roof sheeting laid to a mono-pitch.	m2	96		
	0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:				
2	Mono pitched ridge capping with 225mm lapping secured onto the roof.	m	21		
	ROOF AND WALL INSULATION				
	"Sisalation Grade FR430" or equal approved heavy industrial insulation				
3	Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires	m2	80		
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	Roof Coverings Etc.				

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Section 2				
Bill No. 3				
Roof Coverings Etc.				
COLLECTION				
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Total Brought Forward from Page No.	44			
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Bill No. 3 Roof Coverings Etc.				

Item No		Quantity	Rate	Amount	
	SECTION 3				
	BILL No. 7				
	CARPENTRY & JOINERY				
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution				
	MODEL PREAMBLES				
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
	SUPPLEMENTARY PREAMBLES				
	<u>FIXING</u>				
	All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.				
	Carried to Collection		R		_
	Section 2 Bill No. 4 Carpentry and Joinery				=

	CARPENTRY				
	Sawn softwood:				
1	38 x 114mm Wall plate.	m	40		
2	50 x 76mm Purlins.	m	126		
3	50 x 76mm Bracing.	m	36		
4	38 x 152mm Rafters.	m	80		
	Sundries:				
5	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	145		
	EAVES, VERGES, ETC				
	"Everite Nutec" or equal approved fibre cement				
6	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	42		
7	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.	m	8		
	Carried to Collection			R	
	Section 2			K	
	Bill No. 4 Carpentry and Joinery				

	DOORS ETC				
	SANS Approved meranti:				
8	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	10		
9	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4).	No	2		
10	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 750 x 1700mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4).	No	2		
	Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:				
11	70 x 108mm rebated meranti frame .	m	72		
	Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:				
12	70 x 108mm rebated meranti frame .	m	5		
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Bill No. 4				
Carpentry and Joinery				
COLLECTION				
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Carpentry and Joinery				
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Item No		Quantity	Rate	Amount	
	BILL No. 5				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	MODEL PREAMBLES				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	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.				
	Descriptions:				
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.				
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.				
	Carried to Collection		R		
	Section 2 Bill No. 5				
	Ceilings, Partitions and Access Flooring				

	CEILING INSULATION				
	100mm thick non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer`s recommendations. • R-value: 2,50m² K/W • Thermal conductivity: 0,04 W/m²/K				
1	100mm Insulation laid between roof trusses and on top of brandering, etc.	m2	54		
	NAILED UP CEILINGS				
	4mm "Everite Nutec" or equal approved fibre- cement boards with H-type pressed steel jointing strips				
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	54		
3	Extra over ceiling for forming trap door size 635 x 635mm in clear formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including trimmers.	No	1		
	Cornices				
4	Everite Nucornice Nu-Cornice Plain 75 or equal approved, overall size 55 x 55mm high, fixed to wall and ceiling using Nucornice water-based adhesive, leaving 2mm vertical joints between sections. All vertical joints to be sealed with Nucornice adhesive prior to painting, all in accordance with the manufacturer's recommendations.	m	42		
	Carried to Collection			R	
	Section 2 Bill No. 5 Ceilings, Partitions and Access Flooring				

Section 2				
Bill No. 5				
Ceilings, Partitions and Access Flooring				
COLLECTION				
Total Brought Forward from Page No.	Page No 54 55		Amount	
Carried Forward to Summary of Section No. 2 Section 2 Bill No. 5 Ceilings, Partitions and Access Flooring		R		

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 8			
	IRONMONGERY			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	Keys/Locks			
	Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys			
	Trade Names			
	Where trade names are specified other ironmongery approved by the Principal Agent may be used			
	<u>Fixing</u>			
	Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
	Section 2 Bill No. 6 Ironmongery		R	

1		1	ı		1	1
	HINGES:					
1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	20.0			
	LOCKS					
2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	4			
3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	16			
	HANDLES					
4	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	20			
	Sundries:					
5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	20			
6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	20			
	SIGN PLATES:					
	All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.					
7	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	5			
	Carried to Collection			R		
	Section 2					+
	Bill No. 6 Ironmongery					

	SUNDRIES				
	Halcast or equal approved"				
8	Thiefproof toilet roll holder plugged.	No	20		
	Carried to Collection Section 2			R	
	Bill No. 6 Ironmongery				

Section 2				ļ
Bill No. 6				
Ironmongery				
COLLECTION				
Total Brought Forward from Page No.	Page No 57 58 59		Amount	
Carried Forward to Summary of Section No. 2		R		
Section 2 Bill No. 6 Ironmongery				

Item No			Quantity	Rate	Amount
	SECTION 3	1			
	BILL No. 10				
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution				
	MODEL PREAMBLES				
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
	<u>SCREEDS</u>				
	Untinted granolithic, on concrete:				
1	30mm Thick on floors and landings.	m2	54		
	INTERNAL PLASTER				
	Cement plaster on brickwork:				
2	On walls.	m2	203		
3	In narrow widths.	m2	5		
	EXTERNAL PLASTER				
	Cement plaster on brickwork:				
4	On walls.	m2	277		
5	In narrow widths.	m2	5		
	Carried Forward to Summary of Section No. 2			R	
	Section 2 Bill No. 7 Plastering				

Item No			Quantity	Rate	Amount
	BILL No. 9				
	TILING				
	MODEL PREAMBLES				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	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.				
	Fixing:				
	Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.				
	WALL TILING				
	152 x 152 x 5mm White glazed ceramic tiles fixed with adhesive to and including plaster backing on brickwork or concrete				
1	On horizontal top surfaces	m2	10		
2	On vertical surfaces	m2	169		
	FLOOR TILING				
	PC Sum of R400/m2 for 450 x 450mm porcelain tiles or equal Architect approved with a minimum 3 mm joints using quick setting high strength gray powder adhesive:				
3	On floors	m2	54.00		
	Carried Forward to Summary of Section No. 2 Section 2 Bill No. 8 Tiling			R	

Item No			Quantity	Rate	Amount	
	SECTION 3					
	BILL No. 11					
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution					
	MODEL PREAMBLES					
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.					
	RAINWATER DISPOSAL:					
	Watertite or equal approved Aluminium Gutters and Downpipes:					
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.	m	42			
2	Extra over eaves gutter for stopped end.	No	4			
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	8			
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	24			
5	Extra over rainwater downpipe for bends.	No	8			
	TAPS, VALVES, ETC					
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	Carried to Collection Section 2 Bill No. 9 Plumbing and Drainage (Provisional)			R		=

	Solid Cast brass taps, valves, etc:				
6	"Cobra KM2-200"or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	2		
7	15mm Ball-o-stop valve.	No	4		
8	22mm Non Return valve.	No	4		
	WASTE UNIONS ETC				
	Outlets, traps, etc:				
9	40mm 342/50 CP bottle trap.	No	4		
10	40mm Code 316 chrome plated unslotted waste outlet.	No	4		
11	40mm Rubber "P" or "S" trap	No	4		
	Carried to Collection Section 2			R	
	Bill No. 9 Plumbing and Drainage (Provisional)				
	3 (,				

	SANITARY FITTINGS				
	Vaal or equal approved:				
12	Lavatera White Vitreous china wall mounted bowl urinal with top inlet [code: 704001] 610x385mm, supplied with 38mm chromium plated domical grating [code: 8787], chromium plated spreader [code: 8543], and two hanger brackets [code: 8127]	No			
13	Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification.	No	4		
14	Orchid back inlet white vitreous china wall hung pan [code 439016] with floor bracket [code 8082Z0] fitted as per manufacturer's specifications and combined with: GEBERIT Kombifix UP172 for wall hung WC, [G110.150.00.1], front actuated with Delta21 dual flush actuator [G115.125.46.1] in matt finish, including flushpipe and Pan connector, water supply connection with angle stop valve, Netting for direct plastering, protection cover for service opening and protection cover for flushpipe, fixed with included fastening materials inside a single solid wall [80mm]	No	16		
	Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:				
15	SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome	No	1		
	plated waste outlet.	No	1		
	PVC waste or vent pipes and fittings:				
16	50mm Waste pipe.	m			
17	110mm Pipe.	m	20		
	Carried to Collection Section 2 Bill No. 9 Plumbing and Drainage (Provisional)			R	

18	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	50		
	uPVC gulleys				
19	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	4		
	Extra for:				
20	50mm Bend.	No	10		
21	50mm Access bend.	No	10		
22	100mm Access bend.	No	8		
	WATER SUPPLIES				
	Polycop pipes:				
	Pipes shall be class 10.				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
	Polycop pipes chased in walls:				
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.				
	Carried to Collection			R	
	Section 2 Bill No. 9				
	Plumbing and Drainage (Provisional)				
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	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:				
23	15mm Pipe chased into brick walls.	m	20		
24	22mm Pipe chased into brick walls.	m	20		
	Extra over polycop pipes for compression fittings:				
25	15mm Fittings.	No	10		
26	22mm Fittings.	No	10		
	Connection to existing water supply				
27	Allow for connection to existing water supply.		Item		
	<u>Testing</u>				
28	Testing water pipe system		Item		
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	Plumbing and Drainage (Provisional)				

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Bill No. 9				
Plumbing and Drainage (Provisional)				
COLLECTION				
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Section 2 Bill No. 9				
Plumbing and Drainage (Provisional)				
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Item No		Quantity	Rate	Amount	
	SECTION 3				
	BILL No. 12				
	<u>PAINTWORK</u>				
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution				
	MODEL PREAMBLES				
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
	SUPPLEMENTARY PREAMBLES				
	<u>Trade Names</u>				
	Where trade names are specified it will read "or equal approved"				
	Carried to Collection		R		_
	Section 2 Bill No. 10 Paintwork				=

	PAINTWORK TO PREVIOUSLY PAINTED WORK					
	ON FLOATED PLASTER					
	Prepare and brush surface to remove all loose contaminants and apply one coat PP700 gypsum and plaster primer and two coats "Plascon Polvin" or equal approved emulsion paint for interior use					
1	On internal walls	m2	50			
2	On narrow widths	m2	5			
	Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, and two coats "Plascon Wall 'n All" or equal approved emulsion paint for external use					
3	On external walls	m2	147			
4	On narrow widths	m2	5			
	ON FIBRE-CEMENT BOARD SURFACES					
	Prepare surface and remove all loose material, apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, two coats PLASCON Wall & All Pure Acrylic paint or equal Architect approved. Colour to Architects Approval.					
5	Ceilings and cornices.	m2	54			
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	Carried to Collection Section 2			R		<u> </u>
	Bill No. 10 Paintwork					
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	ON METAL SURFACES				
	Prepare, touch up manufacturer's priming coat and apply one coat universal undercoat to SABS 681 Type II and two coats 'Velvaglo' polyurethane enamel to SABS 630 on:				
6	On burglar bars	m2	3.84		
7	On door frames	m2	5.00		
	ON WOOD				
	Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats high gloss enamel paint:				
8	On doors	m2	34		
9	On timber door frames	m2	15		
	Prepare and brush surface to remove all loose contaminants and apply two coats "ABE Provonite" or equal approved carbolineum anti-corrosive coal tar paint				
10	On exposed timbers.	m2	26		
	Country to Callection			D	+
	Section 2 Bill No. 10 Paintwork			R	

	ON FIBRE-CEMENT				
	Prepare and apply two coats pure acrylic roof paint on:				
11	Fascias and barge boards.	m2	8		
	Carried to Collection			R	
	Section 2 Bill No. 10 Paintwork				
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Section 2				
Bill No. 10				
Paintwork				
COLLECTION				
Total Brought Forward from Page No.	Page No 69 70 71 72		Amount	
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Item No		Quantity	Rate	Amount	
	BILL No. 13				
	PROVISIONAL SUMS, ETC.				
	SUPPLEMENTARY PREAMBLES				
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.				
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.				
	SHELVING AND JOINERY FITTINGS				
	Shelving and joinery fittings				
1	Provide an amount of R 20,000.00 (Twenty Thousand Rands) for joinery fittings, counters, etc	Item			
2	Profit and attendance on above item		%		
	ELECTRICAL INSTALLATION				
	Electrical Installation				
3	Provide an amount of R 40 000.00 (Forty Thousand Rands) for electrical installation and lightning protection, etc	Item			
4	Profit and attendance on above item		%		
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	Carried Forward to Summary of Section No. 2		R		=
	Section 2 Bill No. 11 PROVISIONAL SUMS				

Section 2 **SECTION SUMMARY - ALTERATIONS** Page **A**mount No Alterations (Provisional) 39 Masonry 43 Roof Coverings Etc. 49 Carpentry and Joinery 53 Ceilings, Partitions and Access Flooring 56 Ironmongery 60 Plastering 61 Tiling 62 Plumbing and Drainage (Provisional) 68 Paintwork 73 PROVISIONAL SUMS 74 **Carried to Final Summary** R Section 2

Bill

No

Item No		Quantity	Rate	Amount	
	SECTION 3				
	BILL No. 2				
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution				
	MODEL PREAMBLES				
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
	SUPPLEMENTARY PREAMBLES				
	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.				
	Carried to Collection		R		
	Section 3 Bill No. 1 Earthworks (Provisional)				_

	Dewatering of excavations:				
	The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water				
	Density testing on filling:				
	Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.				
	Imported fill:				
	"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"				
	Classification of excavated material				
	"Hard rock' shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives.				
	"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact 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.				
	Carried to Collection Section 3		R		-
	Bill No. 1 Earthworks (Provisional)				
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	EXCAVATION OTHER THAN BULK			
	Excavation in earth not exceeding 2m deep:			
1	Trenches. m3 A0:5 A1:6 AD:6	18		
2	Reducing levels and depositing excavated material in prescribed stock piles on site. A0:9 A1:12 AD:12	33		
	Extra over trench and hole excavations in earth for excavation in:			
3	Soft rock. m3 A0:10 A1:0 AD:0	10		
4	Hard rock. m3	10		
	Extra over all excavations for carting away:			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. A0:14 A1:18 AD:19	51		
	Risk of collapse of excavations:			
6	Sides of trench and hole excavations not exceeding 1,5m deep. m2 A0: 25 A1: 29 AD: 30	2 84		
	Keeping excavations free of water:			
7	Keeping excavations free from mud and all water including subterranean sources.	Item		
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	Section 3 Bill No. 1 Earthworks (Provisional)			

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	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:					
8	Under floors, etc. A0:3 A1:5 AD:5	m3	12			
	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.					
9	Under floors, etc. A0:3 A1:5 AD:5	m3	12			
	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.					
10	Under floors, etc.	m3	37			
	A0:10 A1:14 AD:14					
	Coarse river sand filling supplied by the contractor:					
11	Under floors etc. A0:1 A1:2 AD:2	m3	4			
	Compaction of surfaces:					
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density. A0: 22 A1: 30 AD: 31	m2	83			
	Prescribed density tests on filling:					
13	Allow for compaction tests by an approved laboratory to determine density of filling material. A0:8 A1:8 AD:11	No	27			
	SOIL POISONING					
	0					
	Section 3			R		
	Bill No. 1					
	Earthworks (Provisional)					

Approved brand of anti-termite by a Registered Pest Control co guaranteed against termite infe	ompany and				
Under floors, etc., including formir shallow furrows against foundation furrows and ramming. A0:22 A1:30 AD:	ng and poisoning n walls, etc., filling in	m2	83		
Section 3 Bill No. 1	Carried to Collection			R	
Section 3 Bill No. 1 Earthworks (Provisional)	Carried to Collection			R	

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Bill No. 1				
Earthworks (Provisional)				
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Earthworks (Provisional)				

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 3			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	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).			
	Carried to Collection		R	
	Section 3 Bill No. 2 Concrete, Formwork and Reinforcement			

Formwork:]]	1
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 reuse.			
The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.			
Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.			
Carried to Collection	R		
Section 3 Bill No. 2 Concrete, Formwork and Reinforcement			

	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm Concrete				
1	Surface blinding under footings and bases. A0:1 A1:2 AD:2	m3	4		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	30MPa/20mm concrete:				
2	Concrete raft slab on waterproofing. A0:7 A1:8 AD:8	m3	23		
	TEST BLOCKS				
	Test blocks:				
3	Making and testing of 150x150x150mm concrete strength test cubes (Provisional). A0:6 A1:6 AD:6	No	18		
	FINISHING TOP SURFACE OF CONCRETE				
	Finishing top surfaces of concrete smooth with a wood float:				
4	Surface beds, suspended slabs, ground slabs, etc. A0: 22 A1: 30 AD: 31	m2	83		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough Formwork to Sides:				
5	Edges, risers, ends and reveals not exceeding 300mm high or wide. A0: 24 A1: 20 AD: 25	m	69		
	A0.24 A1.20 Ab.20				
	Carried to Collection			R	
	Section 3 Bill No. 2 Concrete, Formwork and Reinforcement				
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	SMOOTH FORMWORK (DEGREE OF ACCURACY I)					
	Smooth Formwork to Sides:					
6	Edges, risers, ends and reveals not exceeding 300mm high or wide. A0:12 A1:10 AD:12	m2	34			
	MOVEMENT JOINTS ETC					
	Two layers of 375 micron damp proof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed (Provisional)					
7	Not exceeding 300mm wide.	m	103			
	A0 : 27 A1 : 36 AD : 40					
	Saw cut joints:					
8	6 x 40mm Saw cut joints in top of concrete (Provisional). A0: 20 A1: 20 AD: 20	m	61			
	REINFORCEMENT (PROVISIONAL)					
9	High tensile steel reinforcement bars to structural concrete work.	t	4.26			
	A0:0.65 A1:0.80 AD:2.81					
	Fabric reinforcement:					
10	REF. 617 fabric reinforcement in concrete surface beds, raft slabs etc. A0: 22 A1: 30 AD: 31	m2	83			
	A0.22 A1.30 Ab.31					
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	Concrete, Formwork and Reinforcement					
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Bill No. 2				
Concrete, Formwork and Reinforcement				
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Section 3 Bill No. 2				_
Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 4			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	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.			
	Carried to Collection		R	
	Section 3 Bill No. 3 Masonry			

Face bricks		
Bricks shall be ordered timeously to obtain uniformity in size and colour		
<u>Pointing</u>		
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc		
<u>Samples</u>		
Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site		
<u>Trade names</u>		
Where trade names are specified it will read "or equal approved"		
Carried to Collection	R	
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	BRICKWORK AND BLOCKWORK SUNDRIES				
	Galvanized brickwork reinforcement				
1	115mm Wide reinforcement built in horizontally A0: 18 A1: 88 AD: 35	m	141		
2	230mm Wide reinforcement built in horizontally. A0: 262 A1: 286 AD: 367	m	916		
	Cramps, ties, etc:				
3	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete. A0: 26 A1: 26 AD: 26	No	78		
	Air bricks etc:				
4	229 x 152mm terracotta clay vermin proof air brick A0 : 12 A1 : 12 AD : 12	No	36		
	Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixeal" bitumen emulsion waterproofing coating:				
5	To walls (Provisional). A0: 65 A1: 80 AD: 77	m2	222		
	<u>Samples</u>				
6	Prepare and construct for approval L-Shaped one brickwall faced and pointed both sides as per given specification, size: 1000x1000x1000mm high. same area (1000x1000mm) to be paved as per given specifications.		Item		
	<u>Turning pieces to lintels etc</u>				
7	230mm Wide turning pieces A0:8 A1:14 AD:13	m	36		
	Section 3 Bill No. 3 Masonry			R	

1	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):				
8	Half brick wall in beam filling pointed one side including cutting and fitting around roof timbers and bedding roofing solid on top in cement mortar. A0:5 A1:6 AD:6	m2	18		
9	One brickwall pointed on both sides.	m2	281		
10	A0:81 A1:88 AD:113 Half brickwall pointed on both sides.	m2	43		
11	A0:5 A1:27 AD:11 Fair raking cutting.	m	27		
	A0:9 A1:9 AD:9 Face brick copings, lintels, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces:				
12	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under. A0:4 A1:7 AD:7	m	18		
13	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	21		
	A0:5 A1:8 AD:8				
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 5			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	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			
	The product and its methodology for application must be approved by Principal Agent before it is used.			
	It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.			
	Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.			
	Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.			
	Carried to Collection		R	
	Section 3 Bill No. 4 Waterproofing			

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Waterproofing				

	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':				
1	Under surface beds, bases, etc. A0: 22 A1: 30 AD: 31	m2	83		
	One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:				
2	Below walls, sills, etc. A0:2 A1:3 AD:3	m2	9		
	JOINT SEALANTS ETC				
	Clear Neutral silicone sealant:				
3	In joint sealing and pointing all round external window and door frames. A0:31 A1:61 AD:55	m	146		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
4	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional). A0: 25 A1: 13 AD: 20	m	59		
	Carried to Collection	n		R	
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Bill No. 4				
Waterproofing				
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 6			
	ROOF COVERINGS			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	<u>Flashings</u>			
	Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind drived water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour: White to one side			
	Quality Assurance			
	The manufacturer shall be assessed and certifed as complying with ISO 9001: 2008 Quality Management System			
	Carried to Collection		R	
	Section 3 Bill No. 5 Roof Coverings Etc.			

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<u>Guarantee</u>			
Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.			
<u>Safety</u>			
The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity			
Handling and Storage			
The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction			
Inspection Prior to Installation or Erection			
Before commencing with installation, the contractor shall verify that the following items have been checked and accepted: a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances c. The corners of the roof are square and the wall framework is perpendicular or as specified d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding			
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Section 3 Bill No. 5 Roof Coverings Etc.			

Protrusion through Sheeted Surfaces	1		1
Protrusion through Sheeted Surfaces Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation			
Cleaning of Roofs, etc			
All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc			
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Bill No. 5 Roof Coverings Etc.			

]	ROOF COVERINGS	1			
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face:				
1	Roof sheeting laid to a mono-pitch. A0: 31 A1: 42 AD: 42	m2	115		
	0.58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:				
2	Mono pitched ridge capping with 225mm lapping secured onto the roof. A0:7 A1:9 AD:10	m	26		
	ROOF AND WALL INSULATION				
	"Sisalation Grade FR430" or equal approved heavy industrial insulation				
3	Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires A0:31 A1:42 AD:42	m2	115		
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	Roof Coverings Etc.				

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Bill No. 5 Roof Coverings Etc.				
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 7			
	CARPENTRY & JOINERY			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	<u>FIXING</u>			
	All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.			
	Carried to Collection Section 3		R	
	Bill No. 6 Carpentry and Joinery			

	CARPENTRY						
	Sawn softwood	<u>l:</u>					
1	38 x 114mm Wa A0 : 14	all plate. A1 : 19	AD : 19	m	52		
2	50 x 76mm Purl	ins.		m	207		
2	A0 : 56	A1 : 75	AD : 76		26		
3	50 x 76mm Brad A0 : 12	ang. A1 : 12	AD : 12	m	36		
4	38 x 152mm Ra	fters.		m	133		
	A0 : 44	A1 : 44	AD : 44				
	Sundries:						
5			hurricane clip fixed using 1 ails (Provisional). AD : 55	0 No	145		
	EAVES, VERG	SES, ETC					
			approved fibre cement				
6	rafter feet includ strips, etc.	ing galvani	drilled and brass screwed to sed steel H-profile jointing	o m	52		
	A0 : 14	A1 : 19	AD : 19				
7		cluding gal	ard drilled and brass screwe vanised steel H-profile s, etc.	ed m	27		
	A0 : 9	A1 : 9	AD:9				
			Carried to Collect	tion		R	
	Section 3 Bill No. 6 Carpentry and Jo	oinery	Carried to Collect			K	

	DOORS ETC				
	SANS Approved meranti:				
8	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1). A0:1 A1:1 AD:2	No	4		
9	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	1		
	A0:0 A1:0 AD:1				
10	44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4).	No	11		
	FRAMED FRAMES, ETC Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:				
11	70 x 108mm rebated meranti frame .	m	69		
	A0:14 A1:32 AD:23				
	Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:				
12	70 x 108mm rebated meranti frame . A0:0 A1:0 AD:5	m	5		
	Carried to Collection			R	
	Section 3 Bill No. 6				
	Carpentry and Joinery				

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Carpentry and Joinery		
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Item No		Quantity	Rate	Amount	
	SECTION 3				
	BILL No. 8				
	IRONMONGERY				
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution				
	MODEL PREAMBLES				
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
	SUPPLEMENTARY PREAMBLES				
	Keys/Locks				
	Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys				
	<u>Trade Names</u>				
	Where trade names are specified other ironmongery approved by the Principal Agent may be used				
	<u>Fixing</u>				
	Fixing of ironmongery is deemed to be fixed to timber unless otherwise described				
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	Carried to Collection		R		_
	Section 3 Bill No. 7 Ironmongery				

	HINGES:				
1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges. A0: 3.0 A1: 7.0 AD: 6.0	Pairs	16.0		
	LOCKS				
2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset. A0:1 A1:1 AD:3	No	5		
3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC A0:2 A1:6 AD:3	No	11		
	HANDLES				
4	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing. A0:3 A1:7 AD:6	No	16		
	Sundries:				
5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved. A0:2 A1:6 AD:3	No	11		
6	38mm Diameter black rubber door stop plugged and screwed to wall. A0:3 A1:7 AD:6	No	16		
	A0:3 A1:7 AD:6 SIGN PLATES:				
7	All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools. Sign plate plugged and screwed to walls with chromium				
,	plated dome headed screws. A0:1 A1:1 AD:3	No	5		
	Section 3			R	
	Bill No. 7 Ironmongery				

1	SUNDRIES	1	1		
	Halcast or equal approved"				
8	Thiefproof toilet roll holder plugged. A0:2 A1:6 AD:4	No	12		
	Grade 304 stainless steel ware:				
9	32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. A0:0 A1:0 AD:1	No	1		
10	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. A0:0 A1:0 AD:1	No	1		
	Section 3 Bill No. 7 Ironmongery			R	

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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 9			
	METALWORK			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent			
	ALUMINIUM WINDOWS			
	All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA.			
	All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction.			
	All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.			
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	Section 3 Bill No. 8 Metalwork		R	

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	Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:				
1	Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01. A0:7 A1:12 AD:11	No	30		
	HOT DIP GALVANIZED STEEL GATES				
	Note: The contractor is to check on site measurements before placing of order.				
	Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:				
2	Security gate size 900 x 2050mm high (G1). A0:1 A1:1 AD:1	No	3		
3	Security double gate size 1800 x 2050mm high. A0:0 A1:0 AD:1	No	1		
	Carried to Collection			R	
	Section 3 Bill No. 8				
	Metalwork				

Section 3				
Bill No. 8				
Metalwork				
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Bill No. 8 Metalwork				

Item No		Quantity	Rate	Amount
Ï	SECTION 3			
	BILL No. 10			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SCREEDS			
	Untinted granolithic, on concrete:			
1	30mm Thick on floors and landings. A0: 22 A1: 30 AD: 31	83		
	<u>Skirtings</u>			
2	75mm High coved granolithic skirting. A0:30 A1:30 AD:48	109		
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	Section 3 Bill No. 9 Plastering			

Item No			Quantity	Rate	Amount
	SECTION 3	1			
	BILL No. 11				
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution				
	MODEL PREAMBLES				
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
	RAINWATER DISPOSAL:				
	Watertite or equal approved Aluminium Gutters and Downpipes:				
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres. A0:7 A1:9 AD:10	m	26		
2	Extra over eaves gutter for stopped end.	No	6		
_	A0:2 A1:2 AD:2				
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe. A0:2 A1:2 AD:2	No	6		
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	27		
_	A0:9 A1:9 AD:9				
5	Extra over rainwater downpipe for bends. A0:3 A1:3 AD:3	No	9		
	TAPS, VALVES, ETC				
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	Carried to Collection			R	
	Section 3 Bill No. 10 Plumbing and Drainage (Provisional)				

l	Solid Cast brass t	ane volve	ne oto:	1	1		1
	Juliu Cast Drass I	aps, vaive	73, 816.				
6	"Cobra KM2-200"o	r other app	proved 15mm chrome on-hold open feature and				
	flow controller.	tap with in	on-noid open leature and	No	10		
	A0:2	A1:4	AD:4				
7	15mm Ball-o-stop v	/alve.		No	11		
	A0 : 2	A1:4	AD : 5				
8	22mm Non Return	valve.		No	16		
	A0 : 5	A1 : 5	AD: 6				
	WASTE UNIONS	ETC					
	Outlets, traps, etc	<u>:</u>					
9	40mm 342/50 CP b	oottle trap.		No	1		
		A1:0	AD : 1				
10	40mm Code 316 cl	nrome plat	ed unslotted waste outlet.	No	10		
	A0:2	A1:4	AD:4				
11	40mm Rubber "P"	or "S" trap		No	10		
	A0 : 2	A1:4	AD:4				
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	Section 3 Bill No. 10						
	Plumbing and Drain	nage (Prov	isional)				

1	SANITARY FITTINGS				
	Vaal or equal approved:				
12	Lavatera White Vitreous china wall mounted bowl urinal with top inlet [code: 704001] 610x385mm, supplied with 38mm chromium plated domical grating [code: 8787], chromium plated spreader [code: 8543], and two hanger brackets [code: 8127] A0:0 A1:0 AD:1	No	1		
13	Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification. A0:2 A1:4 AD:4	No	10		
14	Orchid back inlet white vitreous china wall hung pan [code 439016] with floor bracket [code 8082Z0] fitted as per manufacturer's specifications and combined with: GEBERIT Kombifix UP172 for wall hung WC, [G110.150.00.1], front actuated with Delta21 dual flush actuator [G115.125.46.1] in matt finish, including flushpipe and Pan connector, water supply connection with angle stop valve, Netting for direct plastering, protection cover for service opening and protection cover for flushpipe, fixed with included fastening materials inside a single solid wall [80mm] A0:2 A1:6 AD:4	No	12		
15	Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal: SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet. A0:2 A1:0 AD:0 SANITARY PLUMBING	No	2		
	Carried to Collection Section 3 Bill No. 10 Plumbing and Drainage (Provisional)			R	

	PVC waste or vent pipes and fittings:				
16	50mm Waste pipe.	m	94		
	A0 : 30 A1 : 31 AD : 33				
17	110mm Pipe. A0:2 A1:6 AD:4	m	12		
18	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. A0: 22 A1: 21 AD: 25	m	68		
	uPVC gulleys				
19	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	3		
	A0:1 A1:1 AD:1 Extra for:				
20	50mm Bend. A0:10 A1:12 AD:12	No	34		
21		No	14		
2 I	50mm Access bend. A0:4 A1:3 AD:7	INO	14		
22	100mm Access bend.	No	12		
	A0:2 A1:6 AD:4				
	WATER SUPPLIES				
	Polycop pipes:				
	Pipes shall be class 10.				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
				<u> </u>	
	Carried to Collection			R	
	Section 3 Bill No. 10 Plumbing and Drainage (Provisional)				

	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:				
23	15mm Pipe chased into brick walls. A0: 35 A1: 35 AD: 35	m	105		
24	22mm Pipe chased into brick walls. A0: 20 A1: 20 AD: 20	m	60		
	Extra over polycop pipes for compression fittings:				
25	15mm Fittings. A0: 31 A1: 30 AD: 30	No	91		
26	22mm Fittings. A0: 25 A1: 23 AD: 20	No	68		
	Connection to existing water supply				
27	Allow for connection to existing water supply. Testing		Item		
28	Testing water pipe system		Item		
	Carried to Collection			R	
	Section 3 Bill No. 10 Plumbing and Drainage (Provisional)				_
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Section 3				
Bill No. 10				
Plumbing and Drainage (Provisional)				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	113			
	114			
	115			
	116			
	117			
Carried Forward to Summary of Section No. 3		R		
Section 3				
Bill No. 10 Plumbing and Drainage (Provisional)				

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 12			
	<u>PAINTWORK</u>			
	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 14 - Male Ablution A1 - DWG 35 - Female Ablution AD - DWG 04 - Staff Ablution			
	MODEL PREAMBLES			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	SUPPLEMENTARY PREAMBLES			
	<u>Trade Names</u>			
	Where trade names are specified it will read "or equal approved"			
	Carried to Collection Section 3		R	
	Bill No. 11 Paintwork			

1	PAINTWORK ETC TO NEW WORK	l			1
	ON WOOD				
	Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:				
1	On doors A0:10 A1:23 AD:21	m2	53		
2	On door frames A0:3	m2	17		
	Prepare and apply two coats carbolenium on:				
3	On exposed timbers. A0: 11	m2	39		
	ON FIBRE-CEMENT				
	Prepare and apply two coats pure acrylic roof paint on:				
4	On fascias and barge boards. A0:8 A1:10 AD:10	m2	27		
	Carried to Collection			R	_
	Section 3 Bill No. 11 Paintwork			, ,	
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Section 3				
Bill No. 11				
Paintwork				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	119			
	120			
Carried Forward to Summary of Section No. 3		R		
Section 3 Bill No. 11				
Paintwork				

Section 3 **SECTION SUMMARY - BUILDING WORKS** Page Amount No Earthworks (Provisional) 81 Concrete, Formwork and Reinforcement 86 Masonry 91 Waterproofing 95 Roof Coverings Etc. 100 Carpentry and Joinery 104 Ironmongery 108 Metalwork 111 Plastering 112 Plumbing and Drainage (Provisional) 118 Paintwork 121 **Carried to Final Summary** R Section 3

Bill

No

Item No			Quantity	Rate	Amount
	SECTION No. 4	,			
	BILL No. 1				
	EXTERNAL WORKS (PROVISIONAL)				
	MODEL PREAMBLES				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	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	901		
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	901		
	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	250		
	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	180		
	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	175		
	Carried to Collection Section 4 Bill No. 1 External Works			R	

	Filling supplied by the contractor to form platforms					
6	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	75			
7	Over site of Selected Subgrade G7 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density.	m3	26			
	Surface Preparation:					
8	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	901			
	Prescribed density tests on filling:					
9	Modified AASHTO Density test.	No	4			
	WATER RETICULATION					
	WATER SUPPLY IN GROUND					
	HDPE 100PN 12.5 pressure pipes:					
10	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	25			
11	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	50			
	Extra over (PN12.5) HDPE piping for fittings:					
12	32mm Bend.	No	12			
13	32mm Adaptor.	No	12			
14	40mm Bend.	No	15			
15	32mm Tee.	No	10			
	Carried to Collection			R		
	Section 4			1		+
	Bill No. 1 External Works					
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Allow for profit if required. Testing: Testing water pipe system. Item THE FOLLOWING IN WALKWAYS Excavation not exceeding 2m deep Reducing levels and depositing excavated material in prescribed stock piles on site. m3 342 Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):	
HDPE pipe. 32mm Non-return valve. No 2 Municipal connection Sundries: 19 Allow for amount of R20 000.00 (Twenty Thousand Rand) for municipal water connection to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. 20 Allow for profit if required. ** Testing: 21 Testing water pipe system. THE FOLLOWING IN WALKWAYS Excavation not exceeding 2m deep Reducing levels and depositing excavated material in prescribed stock piles on site. Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):	
Municipal connection Sundries: Allow for amount of R20 000.00 (Twenty Thousand Rand) for municipal water connection to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. Item 20 Allow for profit if required.	
Sundries: Allow for amount of R20 000.00 (Twenty Thousand Rand) for municipal water connection to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. Item 20 Allow for profit if required. % Testing: Testing: Testing water pipe system. Item THE FOLLOWING IN WALKWAYS Excavation not exceeding 2m deep Reducing levels and depositing excavated material in prescribed stock piles on site. m3 342 Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):	
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Reducing levels and depositing excavated material in prescribed stock piles on site. Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):	
prescribed stock piles on site. m3 342 Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):	
dumping surplus excavated material (no allowance made for increase in bulk):	
23 Off site to a dumping site to be found by the Contractor. m3 342	
Filling supplied by the contractor under walkways	
24 G7 Base course material compacted to 98% Mod AASHTO density m3 164	
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	
Carried to Collection	
Section 4 Bill No. 1 External Works	

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	Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:					
26	Under floors,etc.	m2	761			
	Prescribed density tests on filling:					
27	In-situ dry density test.	No	3			
	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:					
28	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	761			
	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:					
29	Paving to walkway areas, etc laid to falls.	m2	761			
	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.					
30	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	200			
31	Ditto but circular on plan.	m	7			
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	Carried to Collection	n		R		
	Section 4 Bill No. 1 External Works					

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	THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)					
	Excavation in earth not exceeding 2m deep:					
32	Trenches.	m3	161			
	Extra over all excavations for carting away:					
33	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	83			
	Risk of collapse of excavations:					
34	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	460			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:					
35	Backfilling to trenches, holes, etc.	m3	78			
	Filling supplied by the contractor under strip footing					
36	G7 Base course material compacted to 98% Mod AASHTO density	m3	34			
37	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	34			
	Compaction of surfaces					
38	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	224			
	25 Mpa/19mm Concrete					
39	Strip footings.	m3	45			
	Carried to Collection			R		
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	Bill No. 1 External Works					

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	Test blocks:					
40	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6			
	Reinforcement (Provisional)					
41	High tensile steel reinforcement bars to structural concrete work.	t	5.38			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
42	One brick walls.	m2	166			
	Brickwork reinforcement:					
43	230mm Wide reinforcement built in horizontally.	m	791			
44	Ditto but in foundations.	m	320			
	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):					
45	One brickwall faced on both sides.	m2	160			
	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:					
46	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	320			
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	Carried to Collection			R		<u></u>
	Section 4 Bill No. 1					
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	STORMWATER CHANNELS				
	Excavation not exceeding 2m deep				
47	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	101		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
48	Off site to a dumping site to be found by the Contractor.	m3	101		
	Filling supplied by the contractor under channels				
49	G7 Base course material compacted to 98% Mod AASHTO density	m3	34		
50	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	34		
	Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.				
51	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	260		
52	Extra for 700mm angle	No	4		
53	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	4		
	THE FOLLOWING IN DISABLED ACCESS				
	SCREEN WALL				
	Carried to Collection			R	
	Section 4 Bill No. 1 External Works			ĸ	

	Excavation in earth not exceeding 2m deep:				
54	Trenches.	m3	5		
	Extra over all excavations for carting away:				
55	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	5		
	Risk of collapse of excavations:				
56	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	14		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
57	Backfilling to trenches, holes, etc.	m3	4		
	Filling supplied by the contractor under strip footing				
58	G7 Base course material compacted to 98% Mod AASHTO density	m3	1		
59	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		
	Compaction of surfaces				
60	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	7		
	25 Mpa/19mm Concrete				
61	Strip footings.	m3	1		
	Test blocks:				
62	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	Carried to Collection			R	
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		1	ı	ı	1	1
	Reinforcement (Provisional)					
63	High tensile steel reinforcement bars to structural concrete work.	t	0.17			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
64	One brick walls.	m2	5			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork reinforcement:					
65	230mm Wide reinforcement built in horizontally.	m	21			
66	Ditto but in foundations.	m	41			
	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):					
67	One brickwall faced on both sides.	m2	5			
	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:					
68	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	10			
	ACCESS RAMPS					
	Excavation not exceeding 2m deep					
69	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	5			
	Carried to Collection			R		
	Section 4 Bill No. 1					<u> </u>
	External Works					
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	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
70	Off site to a dumping site to be found by the Contractor.	m3	5		
	Filling supplied by the contractor under floors, aprons, etc				
71	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
72	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:				
73	Under floors etc.	m3	1		
	Compaction of surfaces:				
74	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	10		
	Prescribed density tests on filling:				
75	In-situ dry density test.	No	2		
	Reinforced 25Mpa/19mm Concrete:				
76	Ramps, Landings, etc.	m3	10		
	Finishing top surfaces of concrete smooth with a wood float:				
77	Surface beds, slabs, etc to falls and currents.	m2	10		
	Test blocks:				
78	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
					_
	Section 4			R	+
	Bill No. 1 External Works				

	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
79	12mm Joints not exceeding 300mm high.	m	10		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
80	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	10		
	Fabric reinforcement:				
81	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	10		
	Waterproofing under Surface beds				
82	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	10		
	Carried to Collection	n		R	
	Section 4 Bill No. 1				
	External Works				

	THE FOLLOWING IN ACCESS DRIVEWAY, ETC.				
	Excavation not exceeding 2m deep				
83	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	324		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
84	Off site to a dumping site to be found by the Contractor.	m3	324		
	Filling supplied by the contractor under driveways				
85	G7 Base course material compacted to 98% Mod AASHTO density	m3	108		
86	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		400		
	AASHTO density.	m3	108		
	Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:				
87	Under floors,etc.	m2	720		
	Prescribed density tests on filling:				
88	In-situ dry density test.	No	3		
	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:				
89	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	720		
	150-175mm diameter bollards				
90	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	30		
	Carried to Collection			R	
	Section 4			K	+
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	THE FOLLOWING IN RETAINING WALLS, ETC.				
	Excavation in earth not exceeding 2m deep				
91	Trenches.	m3	63		
	Risk of collapse of excavations:				
92	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	180		
	Keeping excavations free of water:				
93	Keeping excavations free of all water other than subterranean water.		Item		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
94	Off site to a dumping site to be found by the Contractor.	m3	63		
	Filling with approved clean, hard, dry decomposed dolerite filling supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:				
95	Behind walls with selected backfilling supplied by the Contractor compacted to 98% Mod ASSHTO density	m3	24		
	Compaction of surfaces				
96	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	63		
	15Mpa/19mm unreinforced concrete				
97	Surface blinding under footings and bases.	m3	3		
	30Mpa/19mm reinforced concrete				
98	Strip footings.	m3	13		
99	Cavity walls.	m3	16		
	Carried to Collection			R	1
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	Toot blocker	1	1		1	1
	Test blocks:					
100	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3			
	Fabric reinforcement:					
101	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	144			
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
102	One brickwalls in foundations	m2	45			
103	One brick walls	m2	99			
	Brickwork reinforcement:					
104	230mm Wide reinforcement built in horizontally.	m	514			
	"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):					
105	Extra over brickwork for face brickwork externally.	m2	99			
	Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:					
106	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	90			
	Openings in Walls etc.					
107	Leave or form 32mm weephole through one brick wall	No	135			
	<u>Membranes</u>					
108	"Geofabric filter blanket wrapped around stone with 300mm side and 300mm end laps, including stitching.	m2	108			
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109	Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density: 19mm Stone. THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC. STORMWATER APRONS	m3	8		
110	Excavation not exceeding 2m deep Reducing levels and depositing excavated material in prescribed stock piles on site. Extra over all excavations for loading, carting and	m3	58		
111	dumping surplus excavated material (no allowance made for increase in bulk): Off site to a dumping site to be found by the Contractor.	m3	58		
	Filling supplied by the contractor under floors, aprons, etc				
112	G7 Base course material compacted to 98% Mod AASHTO density	m3	16		
113	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	16		
	Coarse river sand filling supplied by the contractor:				
114	Under floors etc.	m3	5		
	Compaction of surfaces:				
115	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	105		
	Prescribed density tests on filling:				
116	In-situ dry density test.	No	3		
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1	Reinforced 25Mpa/19mm Concrete:	1	1			1
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117	Surface beds cast in panels on waterproofing.	m3	10			
118	Edge thickening	m3	6			
	Finishing top surfaces of concrete smooth with a wood float:					
119	Surface beds, slabs, etc to falls and currents.	m2	105			
	Test blocks:					
120	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:					
121	12mm Joints not exceeding 300mm high.	m	70			
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
122	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	70			
	Fabric reinforcement:					
123	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	105			
	Waterproofing under Surface beds					
124	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	105			
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be found by the Contractor. m3 64	
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einforced concrete (25MPa) having V-shaped waterway oth on all exposed surfaces lled smooth and with angles ngths not exceeding 2m, lds, shallow excavation, o falls, bedding and pointing rete apron to be tinted, e Engineer.	
el 150mm deep in centre laid ceeding 2000mm sections forcement, expansion joints, oncrete surface etc.	
No 4	
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reinforced concrete (25MPa) having V-shaped waterway oth on all exposed surfaces lled smooth and with angles ngths not exceeding 2m, lds, shallow excavation, o falls, bedding and pointing rete apron to be tinted, e Engineer. el 150mm deep in centre laid ceeding 2000mm sections orcement, expansion joints, oncrete surface etc. No 4 ick 700mm wide spreader uning out to 1 960mm width rnt bricks pitching cast in ass off concrete to a smooth ural ground with 150 - les. No 4	

	Sundries:				
132	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	40		
	THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.				
	Excavation not exceeding 2m deep				
133	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	70		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
134	Off site to a dumping site to be found by the Contractor.	m3	70		
	Filling supplied by the contractor under floors, aprons, channels etc				
135	G7 Base course material compacted to 98% Mod AASHTO density	m3	23		
136	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	23		
	Coarse river sand filling supplied by the contractor:				
137	Under floors etc.	m3	8		
	Compaction of surfaces:				
138	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	156		
	Prescribed density tests on filling:				
139	In-situ dry density test.	No	3		
	Reinforced 25Mpa/19mm Concrete:				
140	Surface beds cast in panels on waterproofing.	m3	23		
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	Finishing top surfaces of concrete smooth with a wood float:				
141	Surface beds, slabs, etc to falls and currents.	m2	156		
	Test blocks:				
142	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
143	12mm Joints not exceeding 300mm high.	m	78		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
144	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	78		
	Fabric reinforcement:				
145	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	156		
	THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.				
	Site Clearance, ETC				
146	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	250		
	Excavation in earth not exceeding 2m deep:				
147	Trenches.	m3	100		
	Extra over all excavations for carting away:				
148	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	100		
	Risk of collapse of excavations:				
149	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	400		
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	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:					
150	Backfilling to trenches, holes, etc.	m3	40			
	Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:					
151	19mm Stone.	m3	11			
	<u>Membrane</u>					
152	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	150			
	Keeping excavations free of water:					
153	Keeping excavations free from mud and all water including subterranean sources.		Item			
	Compaction of surfaces					
154	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	63			
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	SOIL DRAINAGE					
	110mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.					
155	110mm uPVC pipe.	m	125			
	Extra for:					
156	110mm Tee.	No	3			
157	110mm Y junction.	No	2			
	THE FOLLOWING IN SOAKAWAY					
	Site Clearance, Etc					
158	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	9			
	Excavation in earth not exceeding 2m deep:					
159	Holes	m3	5			
	Extra over all excavations for carting away					
160	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor within 5km from the building site	m3	5			
	Risk of collapse of excavations					
161	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	21			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density					
162	Backfilling to holes	m3	3			
	Earth filling with stone material supplied by the contractor:					
163	Stone (>63mm).	m3	2			
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	<u>Membranes</u>				
164	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	16		
	Keeping excavations free of water				
165	Keeping excavations free of all water other than subterranean water		Item		
	THE FOLLOWING IN CULVERTS				
	Class 50D concrete pipes:				
166	450mm Diameter Concrete pipe laid in trenches not exceeding 1m deep including excavation, backfill, bedding, cart away and compaction.	m	24		
	Manholes:				
167	Manhole size 600 x 600mm not exceeding 1m deep internally to invert level formed of hard burnt half brick sides in 1:3 cement mortar on and including 100mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom reinforced withY10 bars at 200c/c both directions and projecting 150mm beyond sides,cast on 50mm thick concrete Blinding (15Mpa) and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with with C.I step irons staggered at 300c/c with 150mm thick grade 25 reinforced precast concrete manhole cover rebated for and fitted with and including cast iron double seal cover and frame type 14B in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in to allow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	4		
	THE FOLLOWING IN HEADWALLS				
168	Excavation not exceeding 2m deep.	m3	2		
169	Keeping excavations free from water		Item		
170	Carting away surplus excavated material	m3	2		
171	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
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172	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	1			
173	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	2			
174	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	25			
175	Mesh reinforcement Ref 193 in concrete bottom slab.	m2	9			
176	One brick wall of 14 MPa NFX bricks.	m2	5			
177	230mm Wide reinforcement built in horizontally.	m	23			
178	Extra over brickwork for "Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints face brickwork externally.	m2	5			
179	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	8			
180	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	7			
	SEWER RETICULATION					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES					
	uPVC pipes and fittings					
	Soil, waste and vent pipes and fittings shall be solvent weld jointed.					
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.					
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Excavations:				
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.				
Soft rock and hard rock shall be as defined in Earthworks.				
Laying, backfilling, bedding, etc of pipes:				
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.				
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:				
SABS 1200 L: Medium pressure pipelines LD: Sewers LE: Stormwater drainage Pipe trenches etc shall be				
backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.				
Descriptions of pipes laid in trenches:				
Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site				
Descriptions of catchpits, junction boxes, manholes, etc:				
Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.				
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	Density testing on filling:				
	Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.				
	BULK SEWER RETICULATION				
	Heavy duty (Class 34) PVC-U sewer and drain pipes				
181	110mm Pipes laid in and including trenches not exceeding 1m deep	m	100		
182	110mm Pipes laid in and including trenches exceeding 1m but not exceeding 2m deep	m	50		
	Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings				
183	110mm Bend	No	20		
184	160mm Bend	No	20		
185	110mm Rodding eye	No	10		
186	160 x 110mm Reducing junction	No	10		
	PRE-CAST CONCRETE MANHOLES				
	Pre-cast concrete circular inspection chambers including pre-cast concrete cover slabs, covers and channels in benching				
187	Manhole 1000mm diameter not exceeding 1m deep.	No	2		
188	Manhole 1000mm diameter exceeding 1m and not exceeding 2m deep.	No	2		
	SUNDRIES				
	<u>Earthworks</u>				
189	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m3	9		
190	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m3	90		
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191	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	No	10			
	Manhole covers					
192	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	4			
	Connection					
193	Allow for connecting to sewer drainage system		Item			
	Testing:					
194	Testing drainage system.		Item			
	THE FOLLOWING IN RAINWATER TANKS AND STANDS					
	Excavation in earth not exceeding 2m deep:					
195	Trenches.	m3	27			
	Extra over all excavations for carting away:					
196	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	27			
	Risk of collapse of excavations:					
197	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	10			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:					
198	Backfilling to trenches, holes, etc.	m3	13			
	Filling supplied by the contractor under strip footing, floors etc.					
199	G7 Base course material compacted to 98% Mod AASHTO density	m3	10			
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200	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	10		
	Compaction of surfaces				
201	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	28		
	25 Mpa/19mm Concrete				
202	Strip footings.	m3	8		
	25 MPa/19mm Concrete:				
203	Tank concrete slab.	m3	6		
	Test blocks:				
204	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	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:				
205	Surface beds, slabs, etc.	m2	28		
	Rough Formwork to Sides:				
206	Edges, risers, ends and reveals not exceeding 300mm high.	m	56		
	Allens Meshco Square Mesh Fabric reinforcement:				
207	Type 617 fabric reinforcement in concrete slabs.	m2	28		
	BRICKWORK IN FOUNDATIONS.				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):				
208	One brick walls.	m2	28		
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	BRICKWORK IN SUPERSTRUCTURE				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):				
209	One brick walls.	m2	34		
	Brickwork reinforcement:				
210	230mm Wide reinforcement built in horizontally.	m	155		
211	Ditto but in foundations.	m	172		
	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):				
212	Extra over brickwork for face brickwork externally.	m2	34		
	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:				
213	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	56		
	Plastic water tanks etc:				
214	5000 Litre roto molded or equal approved plastic tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete.	No	7		
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215	Hole top of tank for 100mm pipe.	No	7		
	THE FOLLOWING IN BUFFER TANKS				
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216	Site Clearance etc. 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		40			
	vegetation and debris.	m2	48			
217	Stripping average 300mm thick layer of topsoil and stockpiling on site.	m2	48			
	Excavation Other than Bulk					
	Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:					
218	Trenches, Holes	m3	21			
	Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation in:					
219	Soft rock.	m3	2			
220	Hard rock.	m3	2			
	Risk of collapse of excavations other than bulk:					
221	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level exceeding 1,5m deep. not exceeding 3.0m deep.	m2	26			
	Carting away.					
222	Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations.(measured nett - no allowance made for bulking)	m3	21			
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	Filling with approved 5% stabilised G6 backfill soilcrete supplied and carted onto site by the Contractor and compacted to 95% Mod AASHTO density:				
223	Under trenches, holes, surface beds, etc.	m3	14		
	Compaction of surfaces.				
224	Compaction of ground surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material from excavated material where necessary and compacting to 87% Mod AASHTO density.	m2	10		
	Prescribed density tests on filling				
225	Modified AASHTO Density test.	No	5		
	Keeping excavations free of water:				
226	Keeping excavations entirely free of all water or mud.		Item		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	25 MPa/19mm Reinforced Concrete:				
227	Base slabs.	m3	2		
228	Suspended Slabs.	m3	2		
	Test blocks:				
229	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	6		
	Finishing top surfaces of concrete with a wood float:				
230	Base slabs, etc	m2	10		
	Finishing top surfaces of concrete smooth with steel float:				
231	Suspended slab, etc	m2	9		
	Smooth Formwork to Sides:				
232	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	13		
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	Fabric reinforcement:				
233	REF. 395 fabric reinforcement in concrete surface beds, slabs, footings, etc.	m2	21		
	STORMWATER CHANNELS				
	In-situ concrete channels:				
234	25MPa concrete 900 x 100mm V' channel 100mm deep in centre laid in position in ground in 2000mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating, etc.	m	13		
235	Extra 900 x 200mm for angles,intersections, ends, dressing into sides of catchpits, etc.	No	4		
	UNDERGROUND STORAGE TANKS				
236	6 000 L Polyethylene Collection Tank installed at 2 000mm depth, Installation complete with 50mm Brass float valve, low level override float sender unit, pipework installed in between tanks.	No	1		
	Sundries:				
	Carting of Water				
237	Supply/carting of portable water to an elevated tank including once off testing of reliable source	1	6 000		
	MANHOLE COVERS				
238	900 x 900mm Type 2A Heavy duty cast iron manhole cover and frame to SABS 558.	No	2		
	UNDERGROUND PUMP:				
	Prepare and Install a complete set of submersible pump:				
239	SVM 285/07 Wet End	No	1		
240	1,5KW Franlil 230V Motor.	No	1		
241	1,5KW Data 120 Control Box.	No	1		
242	32mm Base plate cast iron.	No	1		
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243	2,5mm X 4 Core Aquavern submersible cable (meters).	m	5		
244	HDPE 32mm Class 12 piping (meters).	m	10		
245	Installation and Commission.		Item		
	Connection to existing water supply				
246	Allow for connection to existing water supply.		Item		
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	THE FOLLOWING IN SECURITY FENCING, ETC				
	Site clearance				
247	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	110		
	Straining wires, fencing and razor wire:				
248	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	110		
249	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	110		
250	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	110		
	Posts for 1 800mm high security fence:				
251	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	35		
252	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	8		
253	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	6		
254	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	35		
	Carried to Collection			R	
	Section 4 Bill No. 1 External Works				

255	Form 12mm diameter hole through fence post.	No	65		
	<u>Gates:</u>				
256	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		
257	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	1		
	PADLOCKS				
258	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	2		
	THE FOLLOWING IN ELEVATED TANKS				
	Site Clearance, etc.				
259	Allow for clearing of site of all vegatable matter, rubbish, etc.including small trees having a circumference of less than 200mm measured at a height of 1 000mm above ground level, that may be encountered and roughly level site to be built upon and carting away any debris to a site to be found by the contractor.	m2	400		
260	Strip average 200mm thick layer of topsoil and stockpile on site.	m2	400		
	Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:				
261	Holes	m3	12		
	Carried to Collection			R	
	Section 4 Bill No. 1 External Works				<u> </u>

Risk of collapse of excavations other than bulk:					
Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep.	m2	48			
Carting away					
Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations.(measured nett - no allowance made for bulking)	m3	8			
Keeping excavations free of water:					
Keeping excavations entirely free of all water or mud.		Item			
25 MPa/19mm Reinforced Concrete:					
Bases	m3	4			
Test blocks:					
Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	16			
High tensile steel reinforcement to structural concrete work:					
12mm Diameter bars.	t	1.44			
PLUMBING AND DRAINAGE (PROVISIONAL)					
Galvanised steel Pipe					
65mm Mild steel galvanised pipes fixed to elevated tank stand.	m	20			
Extra over for pipe fittings.					
Bend	No	4			
ELEVATED POLYETHYLENE WATER TANK					
Supply and Erect Galvanised Mild Steel Water Tank Stand to support 2 x 10 000 litre Polyethylene Water Tanks (elsewhere measured) at 9000mm height above natural ground level.	t	6.50			
Carried to Collection			R		\dagger
Section 4 Bill No. 1 External Works					#
	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep. Carting away Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations. (measured nett - no allowance made for bulking) Keeping excavations free of water: Keeping excavations entirely free of all water or mud. 25 MPa/19mm Reinforced Concrete: Bases Test blocks: Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional). High tensile steel reinforcement to structural concrete work: 12mm Diameter bars. PLUMBING AND DRAINAGE (PROVISIONAL) Galvanised steel Pipe 65mm Mild steel galvanised pipes fixed to elevated tank stand. Extra over for pipe fittings. Bend ELEVATED POLYETHYLENE WATER TANK Supply and Erect Galvanised Mild Steel Water Tank Stand to support 2 x 10 000 litre Polyethylene Water Tanks (elsewhere measured) at 9000mm height above natural ground level. Carried to Collection Section 4 Bill No. 1	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep. Carting away Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations (measured nett - no allowance made for bulking) Keeping excavations free of water: Keeping excavations entirely free of all water or mud. 25 MPa/19mm Reinforced Concrete: Bases m3 Test blocks: Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional). No High tensile steel reinforcement to structural concrete work: 12mm Diameter bars. PLUMBING AND DRAINAGE (PROVISIONAL) Galvanised steel Pipe 65mm Mild steel galvanised pipes fixed to elevated tank stand. m Extra over for pipe fittings. Bend No ELEVATED POLYETHYLENE WATER TANK Supply and Erect Galvanised Mild Steel Water Tank Stand to support 2 x 10 000 litre Polyethylene Water Tanks (elsewhere measured) at 9000mm height above natural ground level. Carried to Collection Section 4 Bill No. 1	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep. Carting away Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations. (measured nett - no allowance made for bulking) Keeping excavations free of water: Keeping excavations entirely free of all water or mud. Item 25 MPa/19mm Reinforced Concrete: Bases m3 4 Test blocks: Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional). No 16 High tensile steel reinforcement to structural concrete work: 12mm Diameter bars. 1.44 PLUMBING AND DRAINAGE (PROVISIONAL) Galvanised steel Pipe 65mm Mild steel galvanised pipes fixed to elevated tank stand. Extra over for pipe fittings. Bend No 4 ELEVATED POLYETHYLENE WATER TANK Supply and Erect Galvanised Mild Steel Water Tank Stand to support 2 x 10 000 litre Polyethylene Water Tanks (elsewhere measured) at 9000mm height above natural ground level. Carried to Collection Section 4 Bill No. 1	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep. Carting away Extra over all excavations for carting away surplus excavated material and spreading, levelling and lightly compacting on site where directed not exceeding 100m from the excavations (measured nett - no allowance made for bulking) Keeping excavations free of water: Keeping excavations entirely free of all water or mud. Item 25 MPa/19mm Reinforced Concrete: Bases m3 4 Test blocks: Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional). No 16 High tensile steel reinforcement to structural concrete work: 12mm Diameter bars. t 1.44 PLUMBING AND DRAINAGE (PROVISIONAL) Galvanised steel Pipe 65mm Mild steel galvanised pipes fixed to elevated tank stand. Extra over for pipe fittings. Bend No 4 ELEVATED POLYETHYLENE WATER TANK Supply and Erect Galvanised Mild Steel Water Tank Stand to support 2 x 10 000 litre Polyethylene Water Tanks (elsewhere measured) at 9000mm height above natural ground level. Carried to Collection R Section 4 Bill No. 1	Risk of collapse to sides of excavations to holes, trenches, etc. from ground level to not exceeding 1,5m deep.

271	Supply and Install 1 x 10 000 litre Polyethylene water tank complete with all control valves, fittings, holding down ties or straps etc and install to Elevated tank stand (elsewhere measured) at 9 000mm height from natural ground level.	2		
	Carried to Collection		R	
	Section 4 Bill No. 1 External Works		R	

Section 4				
Bill No. 1				
External Works				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	123			
	124			
	125			
	126			
	127			
	128			
	129			
	130			
	131			
	132			
	133			
	134			
	135			
	136			
	137			
	138			
	139			
	140			
	141			
	142			
	143			
Carried Forward		R		
Section 4 Bill No. 1				
External Works				

Section 4			
Bill No. 1			
External Works			
COLLECTION			
	Page		Amount
Brought Forward	No	R	
Total Brought Forward from Page No.	144		
	145		
	146		
	147		
	148		
	149		
	150		
	151		
	152		
	153		
	154		
	155		
	156		
	157		
	158		
Carried to Final Summary		R	
Section 4 Bill No. 1			
External Works			
	1		

Item No		Quantity	Rate	Amount
	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.			
	BUDGETARY ALLOWANCES			
	The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:			
	COMMUNITY LIAISON OFFICER			
1	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
2	Add: Mark-up		%	
	ELECTRICAL INSTALLATION			
3	Provide the sum of R 150 000.00 (One Hundred and Fifty Thousand Rand) for Electrical installation.	Item		150 000.00
4	Add: Profit		%	
5	Add: Attendance		%	
			_	
	Section 5 Bill No. 1 Provisional Sums		R	

	FINAL SUMMARY]		
Section No		Page No		Amount
1	PRELIMINARIES	30		
2	ALTERATIONS	75		
3	BUILDING WORKS	122		
4	EXTERNAL WORKS (PROVISIONAL)	160		
5	PROVISIONAL SUMS	161		
	SUB-TOTAL		R	
	CONTINGENCIES			
	Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R	
	SUB-TOTAL		R	
	Add Value Added Tax at the rate of 15%		R	
	Carried to Form of Offer and Acceptance		R	